

CREST

CATALOGUE

MAY 2023



About Us

The Centre for Research and Evidence on Security Threats (CREST) is the UK's hub for behavioural and social science research into security threats. CREST brings together the UK's foremost expertise in understanding the psychological and social drivers of the threat, the skills and technologies that enable its effective investigation, and the protective security measures that help counter the threat in the first place.

With the majority of its funding from the UK's Home Office and security and intelligence agencies, it carries out its work within a context of significant stakeholder and international researcher engagement. This funding is administered by the Economic and Social Research Council, guaranteeing the academic rigour and independence of CREST's research.

CREST directly funds the work of over two hundred researchers (including doctoral students), in over thirty-five institutions. Through events and its magazine, *CREST Security Review*, it also works with a larger community of leading researchers from around the world who are conducting, directly or indirectly, research that helps understand, mitigate and counter security threats. While CREST may not be the funder of all of this work, it offers a vehicle to promote academic-practitioner dialogue and exchange.

THE CATALOGUE

This catalogue provides an overview of the published outputs from CREST's projects from October 2015 to May 2023. These outputs range from short 'how-to' guides to in-depth reports; policy briefs to videos; and journal articles and posters to CREST's triannual magazine *CREST Security Review*.

All of these resources are available from our website. We have hyperlinked each resource and included a reference number to help you find and download it. New resources are being published all the time. You can be updated on these new resources by signing up for our newsletter at www.crestresearch.ac.uk/contact/newsletter and/or by following us on social media.

We have organised the catalogue into three parts. The first part groups our resources into four themes: Understanding beliefs and values; Gathering intelligence; Assessing risk; Deterring threats. These themes are not mutually exclusive and a resource may inform more than one theme. The second part links to all issues of *CREST Security Review*. The third part lists our resources by project.

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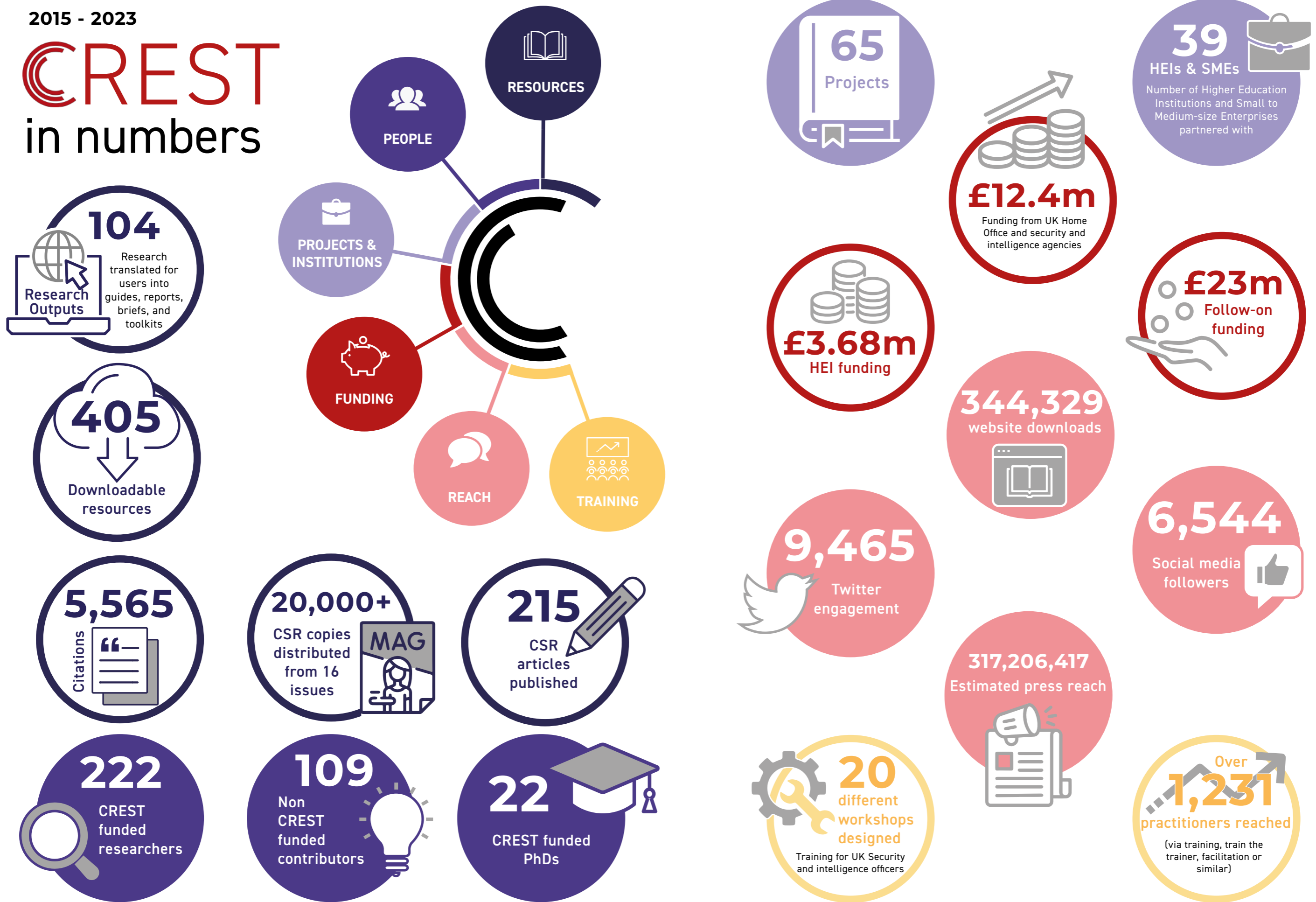
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2015 - 2023

CREST in numbers



*All figures October 2015-May 2023 unless stated otherwise. See CREST Impact Review May 2023 for full details.

UNDERSTANDING BELIEFS AND VALUES



OVERVIEW

This theme focuses on understanding the beliefs and values of individuals and groups that present a threat to national security in the UK. It offers an understanding of far-right, Islamic extremism and militant anti-fascism. To further understanding and counter ignorance, it offers guides on various aspects of Islam and British Muslims as well as exploring claims of Sikh radicalisation.

In addition to understanding belief systems, this theme considers how and why ideas are shared. It covers work on disinformation and social media, in part through consideration of Russia. It looks at the use of Russian fake social media accounts, and Russian-speaking foreign fighters in Syria and Iraq. This is supplemented by work on violence promotion in Chan cultures, conspiracy theories, the direct and indirect effects of trauma on radicalisation, and reciprocal radicalisation.

In order to expand our knowledge of violence reduction and disengagement, this theme reports on the internal brakes on violent escalation, and work which seeks to learn lessons from the conflict in Northern Ireland. To enhance policy makers' knowledge, the theme covers Countering Violent Extremism initiatives, and the effectiveness of existing deradicalisation programmes.



KIM KNOTT

SUNNI AND SHI'A ISLAM: DIFFERENCES AND RELATIONSHIPS

This CREST guide sets out the historical and ideological differences and similarities between Sunni and Shi'a Islam, and their contemporary relationships in the UK and beyond.
Guide 16-005-01



KIM KNOTT

ISLAM: THE FIVE PILLARS

This CREST guide introduces the five pillars of Islam – the basic requirements of Islamic practice – and the teachings associated with them.
Guide 16-007-01



BEN LEE

PRIMER: THE COUNTER JIHAD MOVEMENT

This CREST guide looks at the Counter Jihad Movement – a loose network of groups and individuals who believe that the West and Islam are at war.
Guide 16-008-01



KIM KNOTT

ISLAM: CONVERSION

This CREST guide outlines the process of converting to Islam, why some people choose to convert, what they experience – good and bad, and whether they are likely to become extremists.
Guide 16-024-01



JASJIT SINGH

SIKH RADICALISATION

A series of outputs examining the context and reality of Sikh activism in the UK. It draws on Dr Singh's earlier work on religious and cultural transmission among young British Sikhs, Sikh diasporas, religious movements/communities and the state in UK South Asian diasporas.
Executive Summary 17-038-01; Full Report 17-028-01; Guide 18-030-01



SIMON COPELAND ET AL.

AFTER ISLAMIC STATE

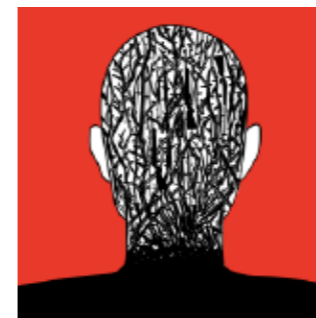
A series of reports that covered the issues that led up to instability in the region (1) as well as key questions surrounding Russia and Yemen, (2) transnational mobilisations, (3) and the Islamic State's long-term prospects (4).
Reports 17-007-01; 17-014-02; 17-015-01; 17-016-01



CHRISTOPHER MCDOWELL ET AL.

THE CASE OF SRI LANKA

These reports, while focusing on the case of Sri Lanka, have wider implications to the transnationalisation of conflict-related diaspora politics, particularly in conflicts with large refugee and asylum cross-border flows.
Reports 18-036-01; 18-035-01; 18-034-01



JAMES LEWIS, SARAH MARSDEN

TRAUMA, ADVERSITY, AND VIOLENT EXTREMISM

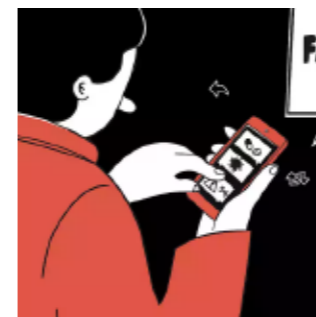
This report explores how research on the direct and indirect effects of trauma might advance our understanding of radicalisation.
Executive Summary 21-032-02; Full Report 21-031-01



BEN LEE, KIM KNOTT

HOW AND WHY IDEOLOGIES ARE SHARED AND LEARNED

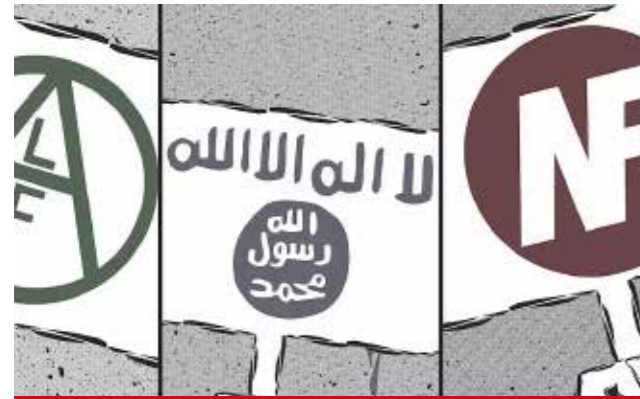
How and why people learn and pass on ideas, beliefs, and practices that are important to them – a process which takes place in extremist cells, networks and movements, no less than in mainstream settings.
Guide 20-031-01



TOM BUCHANAN

WHY DO PEOPLE SHARE DISINFORMATION ON SOCIAL MEDIA?

Are people fooled by disinformation and spread it because they believe it is true? Do they know the information is fake but spread it anyway? How does the way disinformation is presented influence our likelihood of sharing it? And are some people more likely to share disinformation than others?
Policy Brief 20-017-03



This series of CREST reports explores the intra-group mechanisms through which members of extremist groups contribute to, establish, and maintain parameters on their own violence.

JOEL BUSER ET AL.

THE INTERNAL BRAKES ON VIOLENT ESCALATION

A DESCRIPTIVE TYPOLOGY

Executive Summary 19-001-02;
Full Report 19-005-02

REPORTS

19-002-02; 19-003-02; 19-004-02



SARAH MARSDEN ET AL.

**CVE: AN INTRODUCTION
CVE: A GUIDE TO GOOD PRACTICE**

Two CREST guides: an introduction to Countering Violent Extremism initiatives, and examples that help explain the need for an evidence-based theory of change.
Guide 17-008-01; Guide 18-039-01



KIM KNOTT ET AL.

WORKSHOP REPORT: RECIPROCAL RADICALISATION

This CREST report highlights the topic of 'reciprocal radicalisation', which is the idea that extremist groups can feed off one another in a cycle of escalating rhetoric or even actions.
Full Report 18-037-01



SARAH MARSDEN

DERADICALISATION GUIDE

This CREST guide explores deradicalisation programmes, setting out the types of interventions in operation, the methods they use, and how to evaluate their effects.
Guide 18-090-02



This series of reports look at the family (1), peer-to-peer relationships (including educations and prisons) (2), as well as political and religious organisations (3) as a context for ideological transmission of ideas, beliefs, and values.

BEN LEE, KIM KNOTT

TRANSMISSION

IDEOLOGICAL TRANSMISSION I:
FAMILIES

Executive Summary 16-023-02;
Full Report 16-022-04

IDEOLOGICAL TRANSMISSION II:
PEERS, EDUCATIONS, AND PRISONS

Executive Summary 17-039-01;
Full Report 17-041-02

IDEOLOGICAL TRANSMISSION III:
POLITICAL AND RELIGIOUS ORGANISATIONS

Executive Summary 18-041-02;
Full Report 18-040-01



BEN LEE

UNDERSTANDING THE FAR-RIGHT LANDSCAPE

This CREST guide provides an introduction to the far-right in the UK, including an analysis of some of the groups and networks and the main security threats they present.
Guide 17-001-01



SARAH MARSDEN, SIMON COPELAND

RIGHT-WING TERRORISM: PATHWAYS AND PROTECTIVE FACTORS

This CREST report explores the pathways and protective factors to right-wing terrorism.
Executive Summary 21-006-01; Full Report 20-004-01



NIGEL COPSEY ET AL.

UNDERSTANDING 21ST-CENTURY MILITANT ANTI-FASCISM

This CREST report presents evidence from interviews with anti-fascist activists and digital platforms used by anti-fascist groups to illustrate the role of militant anti-fascism in the 21st century.
Executive Summary 21-018-01; Full Report 21-019-02



A series of reports that investigate how Russian institutions and actors (1) contribute in the promotion and means/methods of Russian disinformation (2), the deployment of disinformation in the Caucasus (3) and how it operates in Ukraine (4) such as the disinformation used as part of military deception.

CERWYN MOORE

RUSSIA AND DISINFORMATION

INSTITUTIONS AND ACTORS	<i>Exe Sum 19-026-01; Full Report 19-027-01</i>
MASKIROVKA	<i>Exe Sum 19-024-01; Full Report 19-025-01</i>
THE CASE OF THE CAUCASUS	<i>Exe Sum 19-020-01; Full Report 19-021-01</i>
THE CASE OF UKRAINE	<i>Exe Sum 19-022-01; Full Report 19-023-01</i>



A series of outputs bringing together open source, humanities, and social science research on Muslims and Islam, drawing on academic literature (from Islamic studies to political science) as well as information from a variety of websites produced by Muslim and Islamic groups.

KIM KNOTT

BRITISH MUSLIMS

MUSLIMS AND ISLAM IN THE UK	<i>Exe Sum 18-028-02; Full Report 18-018-01</i>
BRITISH MUSLIMS GUIDES	<i>History 18-010-01; Communities 18-011-01; Mosques 18-016-01; Gender 18-012-01; Families 18-013-01; Charities 18-014-01; Sects 18-015-01</i>



MARTIN INNES

RUSSIAN INFLUENCE FOLLOWING THE 2017 UK TERRORIST ATTACKS

This CREST policy brief details how independent analysis has identified systematic use of fake social media accounts, linked to Russia, amplifying the public impacts of four terrorist attacks that took place in the UK in 2017.
Policy Brief 17-081-02

MARTIN INNES

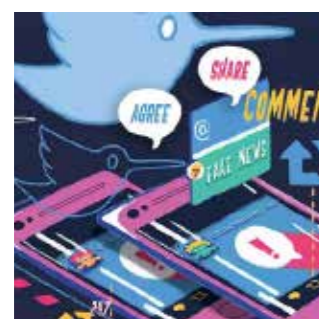
'SOFT FACTS' AND DIGITAL BEHAVIOURAL INFLUENCING AFTER THE 2017 TERROR ATTACKS

This CREST report examines how 'soft facts' influence individual and collective behaviours, and what are the most effective counter-measures for managing their consequences.
Executive Summary 19-008-01; Full Report 19-007-01

CERWYN MOORE ET AL.

'RUSSIAN-SPEAKING' FOREIGN FIGHTERS

This report examines the involvement of people from Russia and the former Soviet Union in the conflict in Syria and Iraq.
Executive Summary 17-040-01; Full Report 17-017-01; Policy Brief 17-042-01



JOHN F. MORRISON

POST-2017 RESEARCH ON DISENGAGEMENT AND DERADICALISATION

This CREST report identifies and analyses 11 themes from research published after 2017 on disengagement and deradicalisation.
Executive Summary 21-034-01; Full Report 21-033-02

STEPHANE BAELE ET AL.

MINING THE CHANS

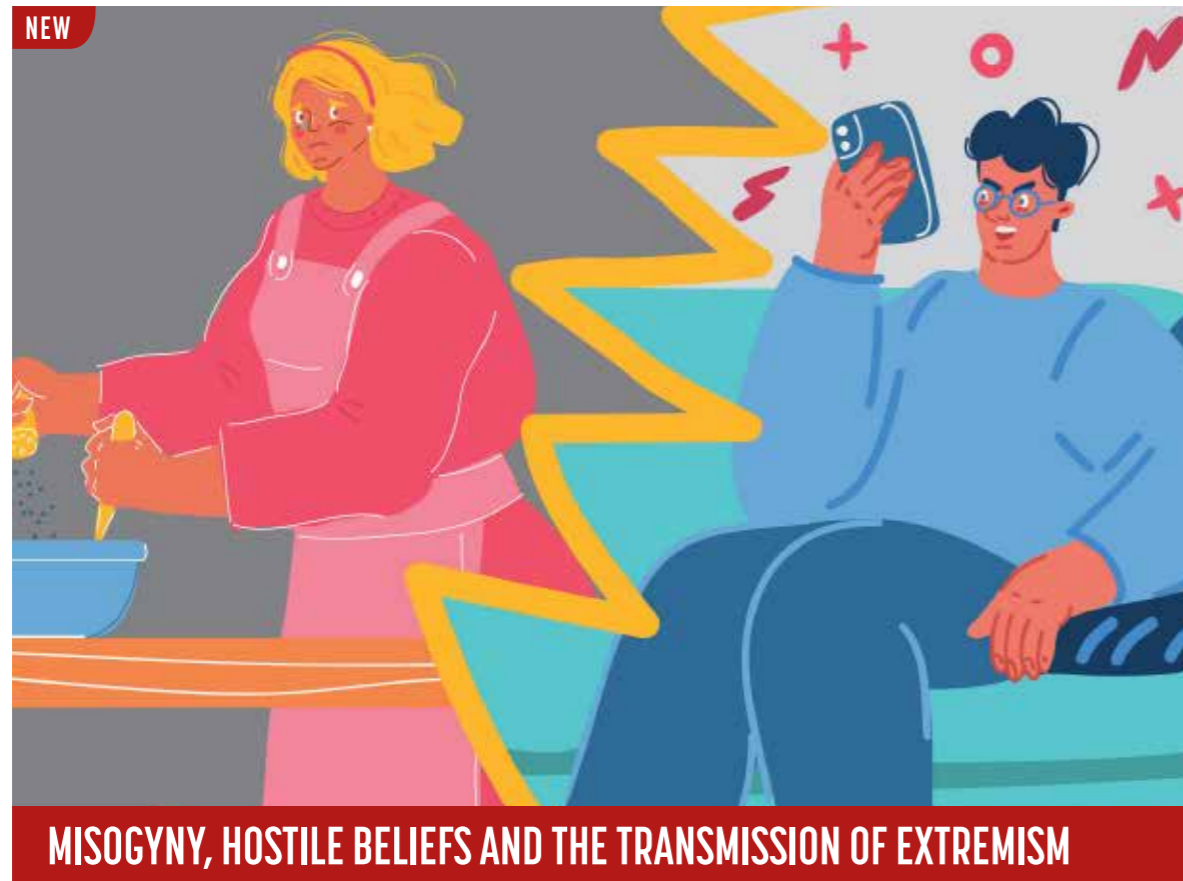
What role do /pol boards play in the far-right online ecosystem and how might security practitioners better mitigate the threat they pose?
Guide 21-003-02

FLORENCE KEEN ET AL.

MEMETIC IRONY AND THE PROMOTION OF VIOLENCE WITHIN CHAN CULTURES

How does the visual culture of chan sites contribute to and encourage violent discourse?
Full report 20-026-01





MISOGYNY, HOSTILE BELIEFS AND THE TRANSMISSION OF EXTREMISM

This series of resources examines the role of online channels in amplifying gender ideology and misogyny across transnational networks.

ALEXANDRA PHELAN ET AL.

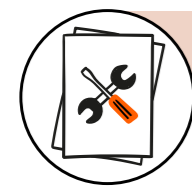
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REPORTS

MISOGYNY, HOSTILE BELIEFS AND THE TRANSMISSION OF EXTREMISM: A COMPARISON OF THE FAR-RIGHT IN THE UK AND AUSTRALIA

Exe Sum 23-002-01; Full Report 23-001-01; Overview 23-004-01



GUIDES

INTRODUCTORY GUIDE TO UNDERSTANDING MISOGYNY AND THE FAR-RIGHT

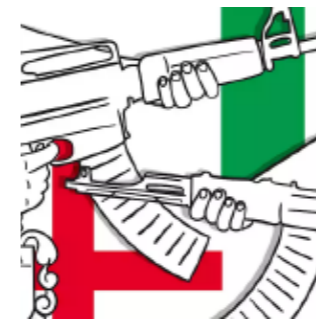
Guide 23-003-01



ARTICLES

MISOGYNY AND MASCULINITY: TOWARD A TYPOLOGY OF GENDERED NARRATIVES AMONGST THE FAR-RIGHT

Article - 🌐

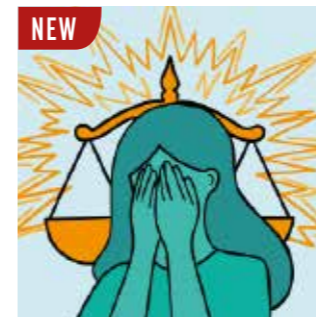


NEIL FERGUSON ET AL.

THE VIOLENT EXTREMIST LIFECYCLE: 12 LESSONS FROM NORTHERN IRELAND

This CREST guide offers 12 lessons that are relevant to those working within the Northern Ireland context today as well as those working to reduce the threat from violent extremists elsewhere.

Guide 20-020-01

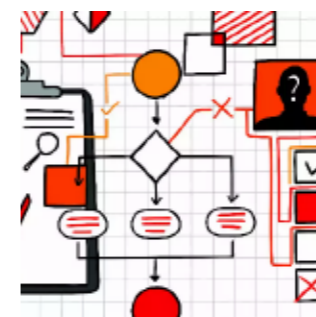


JAMES HEWITT ET AL

THE PSYCHOLOGICAL EFFECTS OF CRIMINAL JUSTICE MEASURE

This full report applies a trauma lens to research which has examined people's experiences of interacting with the criminal justice system, with a particular focus on the counter-terrorism context.

Executive Summary 22-025-01; Full Report 22-024-01



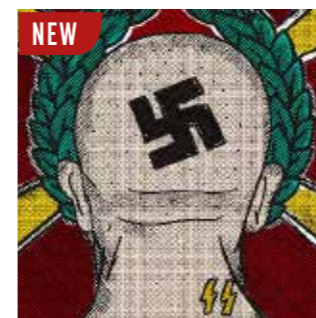
NOÉMIE BOUHANA

ARE CONCEPTUAL FRAMEWORKS OF RADICALISATION LEADING TO INVOLVEMENT IN TERRORISM 'OBSERVABLE'?

In this report Noémie Bouhana examines whether better-known frameworks of radicalisation leading to terrorism involvement are readily observable through the available data.

Executive Summary 22-008-01; Full Report 22-007-01

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BEN LEE

SIEGE CULTURE AND ACCELERATIONISM IN THE UK

This CREST guide provides an introductory overview of Siege Culture, also referred to as accelerationism, as it has manifested in the UK from 2016 onwards.

Guide 22-011-01



BEN LEE

LETHAL SUBCULTURES

This CREST report applies subcultural theory to the problem of violent extremist organisation, conceptualising violent extremism as a lethal subculture.

Executive Summary 22-021-01; Full Report 22-020-01



INCEL AND THE INCELOSHERE

Focusing on InCel ideology, a misogynistic worldview whose proponents blame women for their lack of sexual activity, these resources explore the online 'InCelosphere' and tracks its dynamics of contagion.

LEWYS BRACE



REPORTS

INCEL AND THE INCELOSHERE: AN OVERVIEW OF CURRENT RESEARCH AND UNDERSTANDING

Executive Summary 22-011-01; Full Report 22-008-01;



BRIEFS

HOW WORRIED SHOULD WE BE ABOUT INCEL-RELATED VIOLENCE?

Policy Brief 22-009-02



ARTICLES

A DATA-DRIVEN ANALYSIS OF INCELOSHERE ENGAGEMENT BY UK-BASED USERS

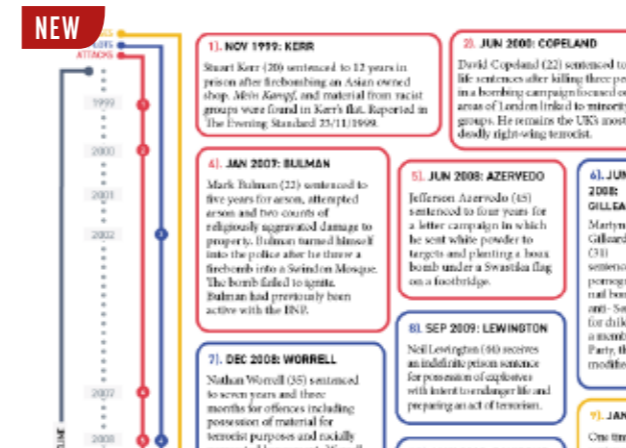
Article 22-010-02

THE 'INCELOSHERE' AND INCEL VIOLENCE: A WORSENING PROBLEM?

Article - 🌐

A SHORT INTRODUCTION TO THE INVOLUNTARY CELIBATE SUB-CULTURE

Article - 🌐



EXTREME RIGHT-WING TERRORISM IN THE UK

TIMELINE *Poster 22-023-01*

EXTREME RIGHT-WING TERRORISM IN THE UK *Full Report 22-052-01*

BEN LEE ET AL.

This timeline provides an overview of sentences stemming from right-wing terror attacks, plots, and offences in the UK between 1999 and summer 2022. An online, interactive version of the timeline is also available.



WHY DO PEOPLE ADOPT CONSPIRACY THEORIES, HOW ARE THEY COMMUNICATED, AND WHAT ARE THEIR RISKS?

Drawing on research in psychology, information engineering, political science, and sociology, this report examines why people adopt conspiracy theories and how they are communicated. *Full report 17-082-01*

KAREN DOUGLAS ET AL.

GATHERING INTELLIGENCE



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OVERVIEW

This theme focuses on ways to gather intelligence from, and about, groups and individuals. It covers specific interviewing techniques that help practitioners to elicit accurate information in interview or debrief settings, such as the Timeline Technique, the Cognitive Interview, the Model Statement Technique, the Unexpected Questions Technique and the RING task, which has been specifically designed to support the recall of information about people involved in networks. Relatedly, it considers the importance of rapport building to effective intelligence gathering and illustrates this in both offline and in-person interviews.

To help practitioners make good judgements about where threats to accuracy lie, the theme covers different types of inconsistency and when they matter; what it means when someone says that they ‘don’t know’ or ‘don’t remember’ something; and techniques that help practitioners to detect deception such as the Verifiability Technique.

As well as looking at effective tools and techniques for eliciting information and assessing its veracity, the theme focuses on individuals carrying out the intelligence gathering. It examines the adaptive behaviour of practitioners in a law enforcement context, and provides an insight into coping under stress in security settings and the effects this can have on performance. Of course, not all intelligence is gathered by interviewing and so the theme considers surveillance in the form of spotting faces and rare targets.

In organisations that gather large amounts of intelligence, technological advances are being used to assist practitioners in their analysis. Here we consider software tools designed to help analysts process large volumes of data quickly and effectively, the role of explanation in systems which use artificial intelligence to help analyse intelligence, and technological advances, such as how to use keystroke dynamics to identify the name and native language of an anonymous user.

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ALDERT VRIJ

THE VERIFIABILITY TECHNIQUE

This CREST guide outlines strategies that can be used to detect if interviewees' statements are true or false.

Guide 16-001-01



LORRAINE HOPE

THE TIMELINE TECHNIQUE

This CREST guide explores using timelines as a method to help recall by interviewees - known as the Timeline Technique.

Guide 16-002-01

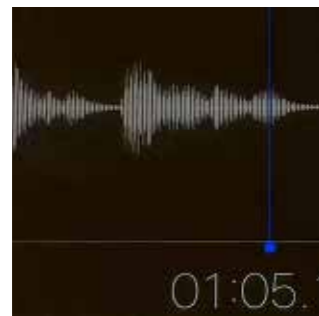


BECKY MILNE

AT A GLANCE: THE COGNITIVE INTERVIEW

This CREST guide is an overview of an interviewing protocol – the Cognitive Interview – which aims to improve the recall of accurate and reliable information from interviewees.

Guide 16-006-01



ALDERT VRIJ

THE MODEL STATEMENT TECHNIQUE

This CREST guide is an overview of the Model Statement Technique – a simple technique for eliciting more information from cooperative interviewees.

Guide 16-011-01



ALDERT VRIJ

THE UNEXPECTED QUESTIONS TECHNIQUE

This CREST guide is an overview of the Unexpected Questions Technique — a technique to improve the recall of accurate and reliable information from interviewees.

Guide 16-014-01



A group of CREST guides looking at detecting targets. These focus on hidden and rare targets, spotting faces, and the effect of training on the ability to spot targets.

NICHOLAS DONNELLY ET AL.

DIFFERENCES IN THE ABILITY TO SPOT TARGETS

GUIDES

16-025-01; 16-026-01; 16-027-01; 16-028-01; 16-029-01



LORRAINE HOPE

ELICITING INFORMATION

This CREST guide distinguishes between different types of inconsistency to help make good judgements about where threats to accuracy lie.

Guide 16-031-01



LORRAINE HOPE

MASTERCLASS IN ELICITING INTELLIGENCE INFORMATION

This report summarises a Materclass on interviewing, during which international researchers shared their findings.

Full Report 16-030-01



ALDERT VRIJ

LIARS STRUGGLE TO PROVIDE CHECKABLE DETAILS

This CREST guide outlines the checkable details technique to aid in deception detection.

Guide 16-001-01



PAUL THOMAS ET AL.

COMMUNITY REPORTING THRESHOLDS

This CREST report looks at the reporting of potential violent extremism and terrorism, focusing on identifying triggers, thresholds and barriers which may stop someone from reporting.

Executive Summary 17-019-01; Full Report 17-018-01



FENI KONTOGIANNI

ELICITING INFORMATION

Feni Konotignni’s doctoral research examines the effectiveness of eliciting information from cooperative sources about single and repeated multi-actor events.

Guide 18-092-01; Thesis 18-093-01



ASHRAF LABIB

A SEA CHANGE FOR INTELLIGENCE ANALYSIS?

This CREST report introduces a new software tool designed to help intelligence analysts process large volumes of data quickly and effectively.

Guide 20-014-01; Full Report 20-018-01

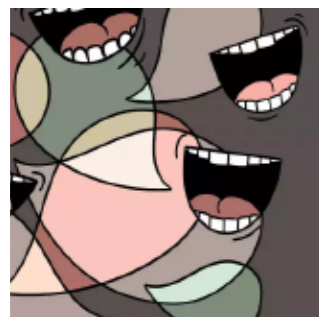


LORRAINE HOPE

ELICITING INFORMATION FROM MEMORY ABOUT CRIMINAL GANGS AND TERRORIST CELLS

This CREST guide looks at a new method for supporting the recall of information from memory to help source handlers elicit information about people involved in criminal networks.

Guide 20-019-01



EWOUT MEIJER ET AL.

RAPPORT BUILDING: ONLINE VS IN-PERSON INTERVIEWS

This CREST report explores the effectiveness of conducting online witness interviews via chat compared to in-person interviews.

Executive Summary 21-014-01; Full Report 21-015-01

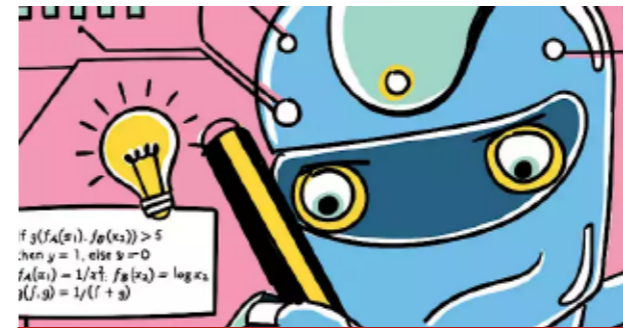


SIMON OLESZKIEWICZ

DEVELOPING A PARADIGM TO ASSESS AND MEASURE ADAPTABILITY

This CREST report examines adaptive behaviour in a law enforcement context and outlines a novel experimental set-up designed to elicit adaptive responses.

Executive Summary 21-017-01; Full Report 21-016-01



These CREST resources explore the role of explanation in human engagement with artificial intelligence and machine learning.

CHRIS BABER ET AL.

AI IN INTELLIGENCE ANALYSIS

UNDERSTANDING THE PROBLEM OF EXPLANATION WHEN USING AI IN INTELLIGENCE ANALYSIS

Executive Summary 21-025-01; Full Report 21-024-01

GUIDES

For System Developers 21-027-01; For Senior Managers 21-026-01



FIONA GABBERT ET AL.

QUANTIFYING THE EFFECTIVENESS OF A RAPPORT-BUILDING TRAINING PROGRAMME

This CREST report outlines the development of an evidence-based training programme to test the extent to which individuals can be trained to better build rapport.

Full Report 21-020-01

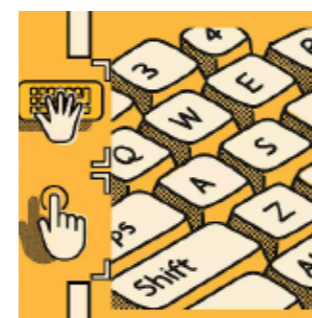


IAN STANIER ET AL.

FIREPLACES AND INFORMANT MOTIVATION

This guide outlines a new framework devised to help informant handlers better identify motivations.

Guide 21-030-01

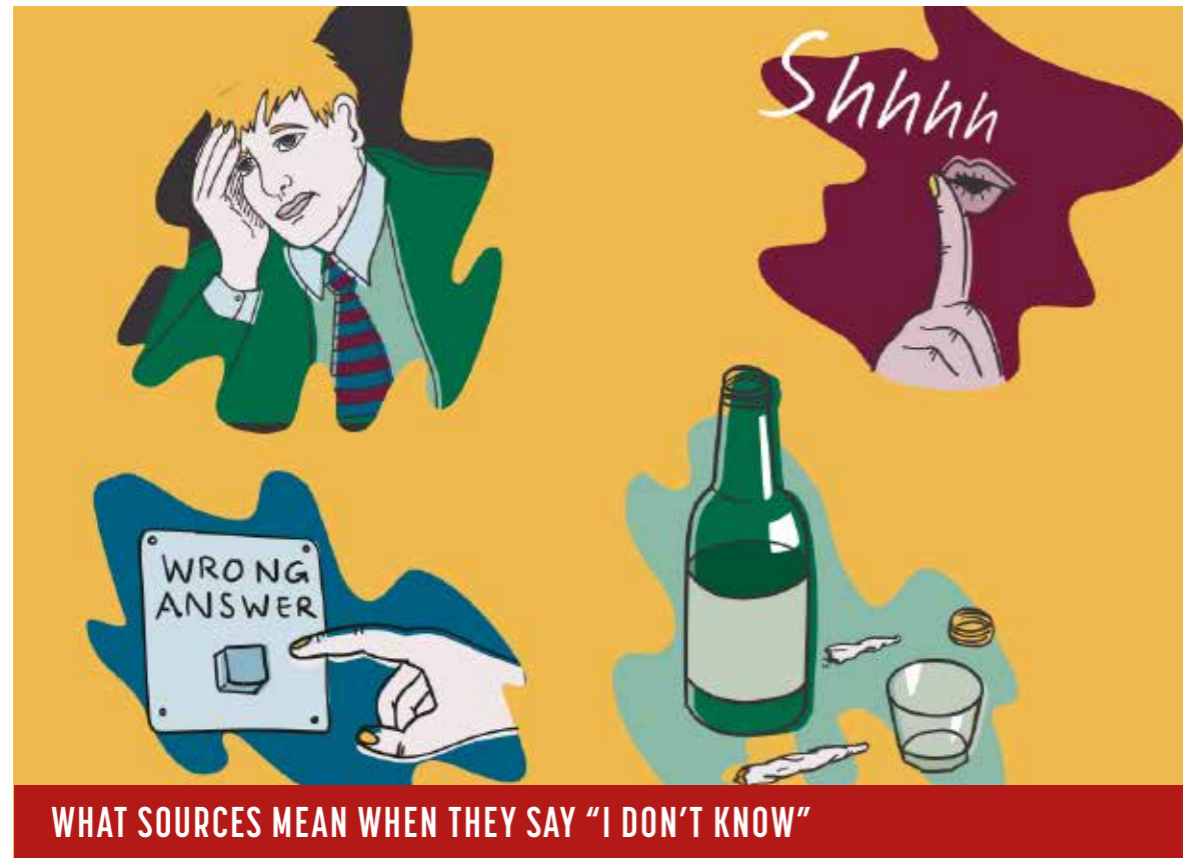


OLI BUCKLEY

COLLECTING AND LEVERAGING IDENTITY CUES WITH KEYSTROKE ANALYSIS (CLICKA)

This CREST report explores how keystroke dynamics can be used to identify the name and native language of an anonymous user.

Executive Summary 21-037-01; Full Report 21-036-01



WHAT SOURCES MEAN WHEN THEY SAY "I DON'T KNOW"

What do sources mean when they say, "I don't know" or 'I don't remember'? This collection of posters categorises potential reasons for these hindering responses.

LORRAINE HOPE



POSTERS

MIND MAP: WHAT SOURCES MEAN WHEN THEY SAY "I DON'T KNOW"

Poster 18-032-03

OVERVIEW

Poster 18-002-01

MEMORY ENCODING

Poster 18-004-01

MEMORY RETRIEVAL

Poster 18-005-01

INTERVIEW CONTEXT

Poster 18-007-01

DISTRUST, CYNICISM AND HOSTILITY

Poster 18-003-01

PERSONAL MOTIVATION

Poster 18-006-01



EMMA BARRETT & NATHAN SMITH

PERFORMANCE AND COPING UNDER STRESS IN SECURITY SETTINGS

This CREST report summarises presentations from a workshop on performance and coping under extreme stress.

Executive Summary 19-008-01; Full Report 19-007-01



ABBIE MAROÑO

THE ROLE OF CLOSENESS IN THE RELATIONSHIP BETWEEN NONVERBAL MIMICRY AND COOPERATION

An investigation into whether nonverbal mimicry could be used to increase cooperation.

Thesis 22-029-01

ASSESSING RISK



OVERVIEW

This theme focuses on the assessment of risk to specific people (such as employees), from a wide variety of actors (such as violent extremists) and via a range of techniques (such as disinformation campaigns).

It includes guides and reports on assessing risk of violence from groups and individuals such as Islamic extremists and far-right groups. We also have reports that enable a more nuanced understanding of risk of violence such as research on the internal brakes on violent escalation, research on trauma, adversity and engagement in violent extremism, understanding how terrorists and criminals make decisions, how countering violent extremism interventions apply to women, and the relationship between mental health and terrorism.

In this theme we also include guides on technology enabled risk such as phishing attacks, the Internet of Things and risks from the spread of disinformation. Examples draw on Russia and disinformation, focusing on the Caucasus, Ukraine, and the annexation of Crimea, to illustrate this.

The theme looks at assessing risk to employees, including workshops that focused on performance and coping under stress, as well as understanding moral injury and trauma in child exploitation investigators.

From the opposite angle, other work explores the risk from employees, and we include a series of reports on organisational change and insider threat, as well as research on the cyber security risks of digital hoarding behaviour.



PAUL GILL

DECISION MAKING

These two guides explore both criminal and terrorist decision-making in context, including how criminals manage their own security, and the insights criminology can provide into terrorist decision-making.

Guide 20-015-01; Guide 20-016-01



MATH NOORTMAN ET AL.

IMAGINATIVE SCENARIO PLANNING

How can we anticipate and counter future threats such as terrorism, cybercrime, organised crime, and financial crime?

Guide 19-017-01; Full Report 19-018-01



KAREN DOUGLAS ET AL.

WHY DO PEOPLE ADOPT CONSPIRACY THEORIES, HOW ARE THEY COMMUNICATED, AND WHAT ARE THEIR RISKS?

Drawing on research in psychology, information engineering, political science, and sociology, this CREST report examines why people adopt conspiracy theories, how they are communicated, and what their risks are.

Full report 17-082-01



EMMA BARRETT ET AL.

PERFORMANCE AND COPING UNDER STRESS IN SECURITY SETTINGS

This CREST report written by Emma Barrett and Nathan Smith summarises presentations from a workshop on performance and coping under extreme stress.

Executive Summary 19-008-01; Full Report 19-007-01



BEN LEE

LETHAL SUBCULTURES

This CREST report applies subcultural theory to the problem of violent extremist organisation, conceptualising violent extremism as a lethal subculture.

Executive Summary 22-021-01; Full Report 22-020-01



ORGANISATIONAL CHANGE

ROSALIND SEARLE ET AL.

A group of outputs looking at organisational change and insider threat. It outlines the individual, social and organisational factors that over time, can contribute to negative employee perceptions and experiences.



REPORTS

MANAGING ORGANISATIONAL CHANGE

18-029-02

ORGANISATIONAL CULTURE TOOLKIT

18-021-01



GUIDES

A MANAGER'S GUIDE TO ORGANISATIONAL CHANGE

18-019-01

MANAGING ORGANISATIONAL CHANGE: PRACTITIONER TOOLKIT

19-020-01

INDIVIDUALS TOOLKIT

18-022-01

LEADERS TOOLKIT

18-023-01

TEAM RELATIONS TOOLKIT

18-024-01



VIDEOS

POSITIVELY INFLUENCING INDIVIDUALS DURING ORGANISATIONAL CHANGE

19-041-01

VIDEO INTRODUCTION

18-025-01

USING THE CWB TOOLKITS

18-026-01



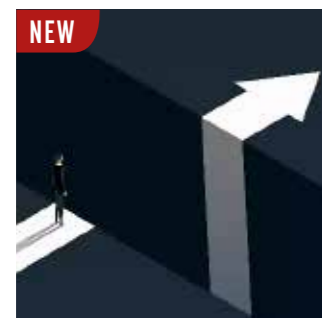
What are the contributing factors to moral injury in child exploitation investigators, and how can these factors be mitigated? What does the term 'moral injury' mean and what are the causes and consequences of it for investigators of online child exploitation?

PETER LEE

UNDERSTANDING MORAL INJURY

POLICE ONLINE CHILD SEX CRIME INVESTIGATORS *Full Report 20-029-01*

GUIDES *Exploring Trauma 20-027-01; Moral Injury 20-028-01*



NEW

JAMES HEWITT ET AL

PROTECTIVE FACTORS IN RISK ASSESSMENT: PRACTITIONER PERSPECTIVES

This report supplements the Evidence Gap Map and associated report which reviewed the academic literature on protective factors, which introduces two new sources of data about protective factors. *Executive Summary 22-031-01; Full Report 22-030-01*



LAURENCE ALISON

CONSIDERATIONS FOR TRAINING DEVELOPMENT

This CREST guide looks at how to improve decision-making, communication, leadership, and interoperability in areas ranging from urban search and rescue and mass decontamination to hostage negotiation and counter-terrorism. *Guide 16-019-02*



MONICA LLOYD

EXTREMISM RISK ASSESSMENT: A DIRECTORY

This CREST report documents frameworks to assess extremist violence. *Full Report 19-019-01*



A series of reports that investigate how Russian institutions and actors (1) contribute in the promotion and means/methods of Russian disinformation (2), the deployment of disinformation in the Caucasus (3) and how it operates in Ukraine (4) such as the disinformation used as part of military deception.

CERWYN MOORE

RUSSIA AND DISINFORMATION

INSTITUTIONS AND ACTORS *Exe Sum 19-026-01; Full Report 19-027-01*

MASKIROVKA *Exe Sum 19-024-01; Full Report 19-025-01*

THE CASE OF THE CAUCASUS *Exe Sum 19-020-01; Full Report 19-021-01*

THE CASE OF UKRAINE *Exe Sum 19-022-01; Full Report 19-023-01*



NEW

SARAH MARSDEN, BEN LEE

CONCEPTUALISING PROTECTIVE FACTORS: STRENGTHS-BASED APPROACHES

This CREST report sets out an approach to conceptualising protective factors in the context of violent extremism. *Executive Summary 22-028-01; Full Report 22-027-01*



EMMA SLADE ET AL.

INDIVIDUAL DIFFERENCES IN THE ADOPTION, SECURE USE, AND EXPLOITATION OF SMART HOME TECHNOLOGY

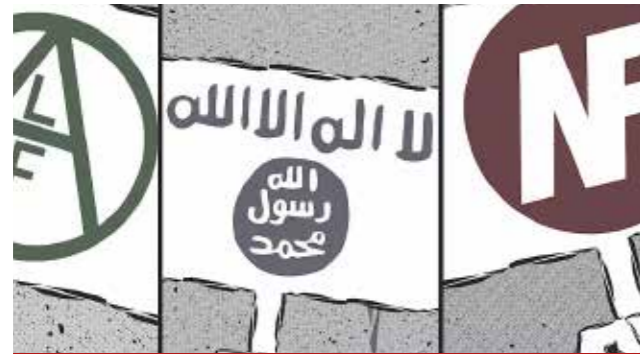
This CREST report gives recommendations on the secure adoption and use of smart home products among consumers. *Executive Summary 21-013-02; Full Report 21-012-02*



NICK NEAVE ET AL.

CYBERSECURITY RISKS OF DIGITAL HOARDING BEHAVIOURS

This CREST report explores the psychological characteristics of individuals who engage in digital hoarding, and the risks these behaviours can pose to organisations. *Full Report 20-013-01*



This series of CREST reports explores the intra-group mechanisms through which members of extremist groups contribute to, establish, and maintain parameters on their own violence.

JOEL BUSER ET AL.

THE INTERNAL BRAKES ON VIOLENT ESCALATION

A DESCRIPTIVE TYPOLOGY *Exe Sum 19-001-02; Full Report 19-005-02*

REPORTS *19-002-02; 19-003-02; 19-004-02*



JAMES LEWIS, SARAH MARSDEN

TRAUMA, ADVERSITY, AND VIOLENT EXTREMISM

This CREST report explores how research on the direct and indirect effects of trauma might advance our understanding of radicalisation. *Executive Summary 21-032-02; Full Report 21-031-01*



ERIKA BRADY ET AL.

PREVENTING AND COUNTERING VIOLENT EXTREMISM INTERVENTIONS AND WOMEN

This CREST report reviews research on P/CVE interventions that explicitly focus on women. *Executive Summary 21-039-01; Full Report 21-038-01*



JOEL BUSER ET AL.

THE ESCALATION AND INHIBITION OF VIOLENCE DURING WAVES OF FAR-RIGHT OR ANTI-MINORITY PROTESTS

This CREST report addresses the question of why we see physical violence escalate beyond 'normal' levels during some waves of far right or anti-minority protest? *Executive Summary 22-006-01; Full Report 22-005-01*



These CREST guides introduce key aspects of technology and security.

ADAM JOINSON ET AL.

TECHNOLOGY AND SECURITY INTRODUCTORY GUIDES

GUIDES

Messaging Apps 16-003-02; Phishing Links 16-004-01



JAMES LEWIS, SARAH MARSDEN

COUNTERING VIOLENT EXTREMISM INTERVENTIONS: CONTEMPORARY RESEARCH

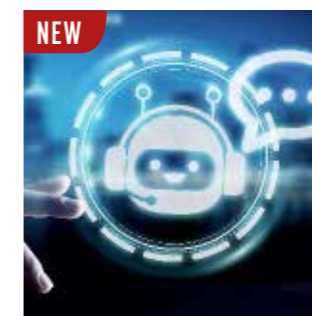
This CREST report details empirical research into interventions and processes of engagement and disengagement in violent extremism. *Executive Summary 18-028-02; Full Report 18-018-01*



NOÉMIE BOUHANA

ARE CONCEPTUAL FRAMEWORKS OF RADICALISATION LEADING TO INVOLVEMENT IN TERRORISM 'OBSERVABLE'?

In this report Noémie Bouhana examines whether better-known frameworks of radicalisation leading to terrorism involvement are readily observable through the available data. *Executive Summary 22-008-01; Full Report 22-007-01*



STEPHANE BAELE

ARTIFICIAL INTELLIGENCE AND EXTREMISM: THE THREAT OF LANGUAGE MODELS FOR PROPAGANDA PURPOSES

This CREST guide highlights the potential misuse of language models by extremist actors for propaganda purposes. *Guide 22-026-01*



This series of reports explore priority areas of policy and practice that fall within the four pillars of CONTEST (Pursue, Prevent, Protect, Prepare).

SARAH MARSDEN ET AL.



REPORTS

PUBLIC EXPERIENCES OF THE UK COUNTER-TERRORISM SYSTEM

Executive Summary 21-008-01; Full Report 20-006-01

TERRORISM-RELATED SIMULATIONS

Executive Summary 21-010-01; Full Report 20-008-01

EVALUATING PROGRAMMES TO PREVENT AND COUNTER EXTREMISM

Executive Summary 21-004-01; Full Report 20-002-01

THE RELATIONSHIP BETWEEN MENTAL HEALTH PROBLEMS AND TERRORISM

Executive Summary 21-011-01; Full Report 20-009-01

BEHAVIOURAL-FOCUSED PROTECTIVE SECURITY PROGRAMMES

Executive Summary 21-007-01; Full Report 20-005-01

EXTREMIST RISK ASSESSMENT

Executive Summary 21-005-01

ECONOMIC INFLUENCES ON RADICALISATION

Executive Summary 21-009-01; Full Report 20-007-01

RIGHT-WING TERRORISM: PATHWAYS AND PROTECTIVE FACTORS

Executive Summary 21-006-01; Full Report 20-004-01

MANAGING TERRORISM-RELATED OFFENDERS IN PRISON

Executive Summary 20-032-01; Full Report 20-002-01



SARAH MARSDEN, BEN LEE

PROTECTIVE FACTORS FOR VIOLENT EXTREMISM AND TERRORISM: RAPID EVIDENCE ASSESSMENT

Research into factors that may reduce the likelihood or prevent people from becoming radicalised or engaging in terrorism is underdeveloped.

Executive Summary 22-013-01; Full Report 22-012-01;

Guide 22-014-01; Evidence Map 22-015-01



LAURENCE ALISON

FACTORS THAT AFFECT COMMAND DECISION-MAKING

The ability to make critical decisions under pressure is vital for reducing risk to public safety. This CREST guide highlights the factors that affect decision-making in this context.

Guide 16-018-02

DETECTING THREATS



OVERVIEW

This theme is broad in scope, addressing our need to better understand how we can deter threat and protect ourselves.

It addresses deterring threat from terrorism through examination of how criminals and terrorists make decisions, and reports on interventions that prevent and counter extremism. This includes interventions that offer promise in disrupting groups through Telegram, and those that consider effective management of terrorism-related offenders in prison.

It looks at public experiences of counter terrorism measures in the UK and overseas; reports on how members of the public can help deter threat by reporting suspicious behaviour; and how to inoculate against the spread of disinformation.

The theme also considers how security professionals can communicate better with employees about how to protect organisations; understanding and mitigating the risk of large-scale change to counterproductive workplace behaviour; and how to best protect staff from phishing attacks in order to mitigate cyber threats.

The innovative tools outlined in the imaginative scenario planning toolkit enables policy makers to consider future threat and how to deter it.



JOHN BLYTHE

PHISHING YOUR STAFF: A DOUBLE-EDGED SWORD?

Naming and shaming. Taking away IT assets. Compulsory training. Lots of companies are doing it, but should they?
Policy Brief 20-011-01; Full Report 20-012-02



SARAH MARSDEN, SIMON COPELAND

EVALUATING PROGRAMMES TO PREVENT AND COUNTER EXTREMISM

This CREST report provides an evaluative overview of programmes that have sought to prevent, and counter, extremism.
Executive Summary 21-004-01; Full Report 20-002-01



STEPHAN LEWANDOWSKY, MUHSIN YESILADA

INOCULATING AGAINST THE SPREAD OF ISLAMOPHOBIC AND RADICAL-ISLAMIST DISINFORMATION

This CREST report explores the potential usefulness of inoculation in combating extremist messaging associated with them.
Full Report 21-001-01



JAMES LEWIS, SARAH MARSDEN

TRAUMA, ADVERSITY, AND VIOLENT EXTREMISM

This report explores how research on the direct and indirect effects of trauma might advance our understanding of radicalisation.
Executive Summary 21-032-02; Full Report 21-031-01



SHIRAZ MAHER ET AL.

HOW TELEGRAM DISRUPTION IMPACTS JIHADIST PLATFORM MIGRATION

Investigating the impact of two Europol Action Days geared towards meaningfully disrupting jihadist networks on Telegram.
Full Report 21-002-01



MATH NOORTMAN ET AL.

IMAGINATIVE SCENARIO PLANNING

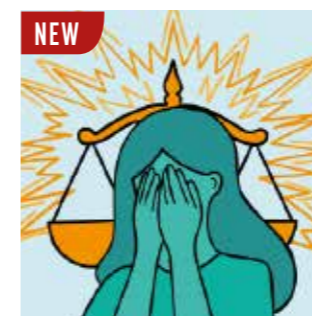
How can we anticipate and counter future threats such as terrorism, cybercrime, organised crime, and financial crime?
Guide 19-017-01; Full Report 19-018-01



SARAH MARSDEN, SIMON COPELAND

BEHAVIOURAL-FOCUSED PROTECTIVE SECURITY PROGRAMMES

This CREST report explores the motivations and barriers for public reporting of suspicious behaviours linked to terrorism.
Executive Summary 21-007-01; Full Report 20-005-01



JAMES HEWITT ET AL

THE PSYCHOLOGICAL EFFECTS OF CRIMINAL JUSTICE MEASURE

This full report applies a trauma lens to research which has examined people's experiences of interacting with the criminal justice system, with a particular focus on the counter-terrorism context.
Executive Summary 22-025-01; Full Report 22-024-01



SARAH MARSDEN, JAMES LEWIS

PUBLIC EXPERIENCES OF THE UK COUNTER-TERRORISM SYSTEM

This CREST report examines public perceptions of counter-terrorism measures in the UK and overseas.
Executive Summary 21-008-01; Full Report 20-006-01



JOHN F. MORRISON

POST-2017 RESEARCH ON DISENGAGEMENT AND DERADICALISATION

This CREST report identifies and analyses 11 themes from the post-2017 research on disengagement and deradicalisation.
Executive Summary 21-034-01; Full Report 21-033-02



JAMES LEWIS, SARAH MARSDEN

**COUNTERING VIOLENT EXTREMISM INTERVENTIONS:
CONTEMPORARY RESEARCH**

Empirical research into interventions and processes of engagement and disengagement in violent extremism.

Executive Summary 18-028-02; Full Report 18-018-01



SARAH MARSDEN, SIMON COPELAND

MANAGING TERRORISM-RELATED OFFENDERS IN PRISON

This CREST report, which is international in scope, looks at the effective management of terrorism-related offenders in prison.

Executive Summary 20-032-01; Full Report 20-001-01



SARAH MARSDEN ET AL.

**CVE: AN INTRODUCTION
CVE: A GUIDE TO GOOD PRACTICE**

Two CREST guides: an introduction to Countering Violent Extremism initiatives, and examples that help explain the need for an evidence-based theory of change.

Guide 17-008-01; Guide 18-039-01



PAUL THOMAS ET AL.

COMMUNITY REPORTING THRESHOLDS

This CREST report looks at the reporting of potential violent extremism and terrorism, focusing on identifying triggers, thresholds and barriers which may stop someone from reporting.

Executive Summary 17-019-01; Full Report 17-018-01



KAREN DOUGLAS ET AL.

**WHY DO PEOPLE ADOPT CONSPIRACY THEORIES, HOW ARE THEY
COMMUNICATED, AND WHAT ARE THEIR RISKS?**

Drawing on research in psychology, information engineering, political science, and sociology, this CREST report examines why people adopt conspiracy theories, how they are communicated, and what their risks are.

Full report 17-082-01

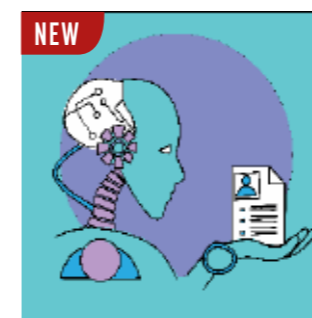


A group of outputs looking at organisational change and insider threat. It outlines the individual, social and organisational factors that over time, can contribute to negative employee perceptions and experiences.

ROSALIND SEARLE ET AL.

ORGANISATIONAL CHANGE

SEE PAGE 29



KAT GIBBS, SOPHIE NIGHTINGALE

AI IN RECRUITMENT: IS IT POSSIBLE TO USE IT RESPONSIBLY?

This CREST guide gives an overview of using AI in recruitment and the ethical issues surrounding it.

Guide 22-019-01



ERIKA BRADY ET AL.

**PREVENTING AND COUNTERING VIOLENT EXTREMISM
INTERVENTIONS AND WOMEN**

This CREST report reviews research on P/CVE interventions that explicitly focus on women.

Executive Summary 21-039-01; Full Report 21-038-01



NICOLA POWER ET AL.

**THE PSYCHOLOGY OF INTEROPERABILITY
- STUDY ONE SUMMARY**

Identifying the psychological principles that outline how interoperability can be achieved within the UK Emergency Services.

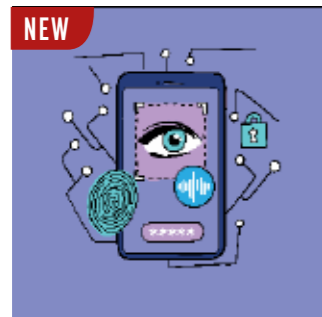
Guide: 23-013-01



MARTIN INNES

'SOFT FACTS' AND DIGITAL BEHAVIOURAL INFLUENCING AFTER THE 2017 TERROR ATTACKS

This CREST report examines how 'soft facts' influence individual and collective behaviours, and what are the most effective counter-measures for managing their consequences.
Executive Summary 19-008-01; Full Report 19-007-01



KAT GIBBS, SOPHIE NIGHTINGALE

MULTIMODAL BIOMETRICS: A BETTER SECURITY SYSTEM?

This CREST guide looks at the advantages and disadvantages of unimodal and multimodal biometrics.
Guide 22-018-01



TOM BUCHANAN

WHY DO PEOPLE SHARE DISINFORMATION ON SOCIAL MEDIA?

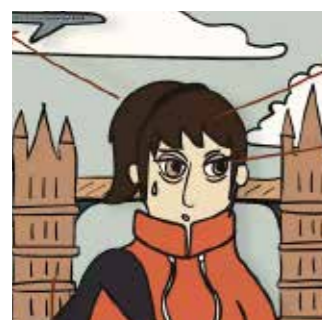
Are people fooled by disinformation and spread it because they believe it is true? Do they know the information is fake but spread it anyway? How does the way disinformation is presented influence our likelihood of sharing it?
Policy Brief 20-017-03



KAT GIBBS, SOPHIE NIGHTINGALE

BIAS IN EMERGING BIOMETRIC SYSTEMS: A SCOPING REVIEW

This scoping review aims to identify the types of bias in AI-biometric systems, steps being taken to mitigate these biases, how effective these steps are, and to identify any gaps in the literature.
Executive Summary 22-063-01; Full Report 22-064-01



PAUL GILL

DECISION MAKING

These two guides explore both criminal and terrorist decision-making in context, including how criminals manage their own security, and the insights criminology can provide into terrorist decision-making
Guide 20-015-01; Guide 20-016-01



SITUATIONAL THREAT AND RESPONSE SIGNALS (STARS)

CHARIS RICE ET AL.

This series of resources establishes and elaborates a sophisticated and flexible appreciation of how and why communication campaigns designed to deter terrorism and deliver influence over public behaviour, achieve differing outcomes.



REPORTS

PUBLIC-FACING COUNTER-TERRORISM STRATEGIC COMMUNICATION CAMPAIGNS: USING 'THE STARS FRAMEWORK' TO MAP AND RESPOND TO SOME KEY CHALLENGES

Full Report 22-046-01; Key Findings Briefing 22-047-01;

SITUATIONAL THREAT AND RESPONSE SIGNALS (STARS): PUBLIC-FACING COUNTER-TERRORISM STRATEGIC COMMUNICATION CAMPAIGNS

*Literature Review 22-048-01;
Literature Review Briefing 22-049-01;
Frame Analysis 22-050-01;
Social Media Analysis 22-051-01*

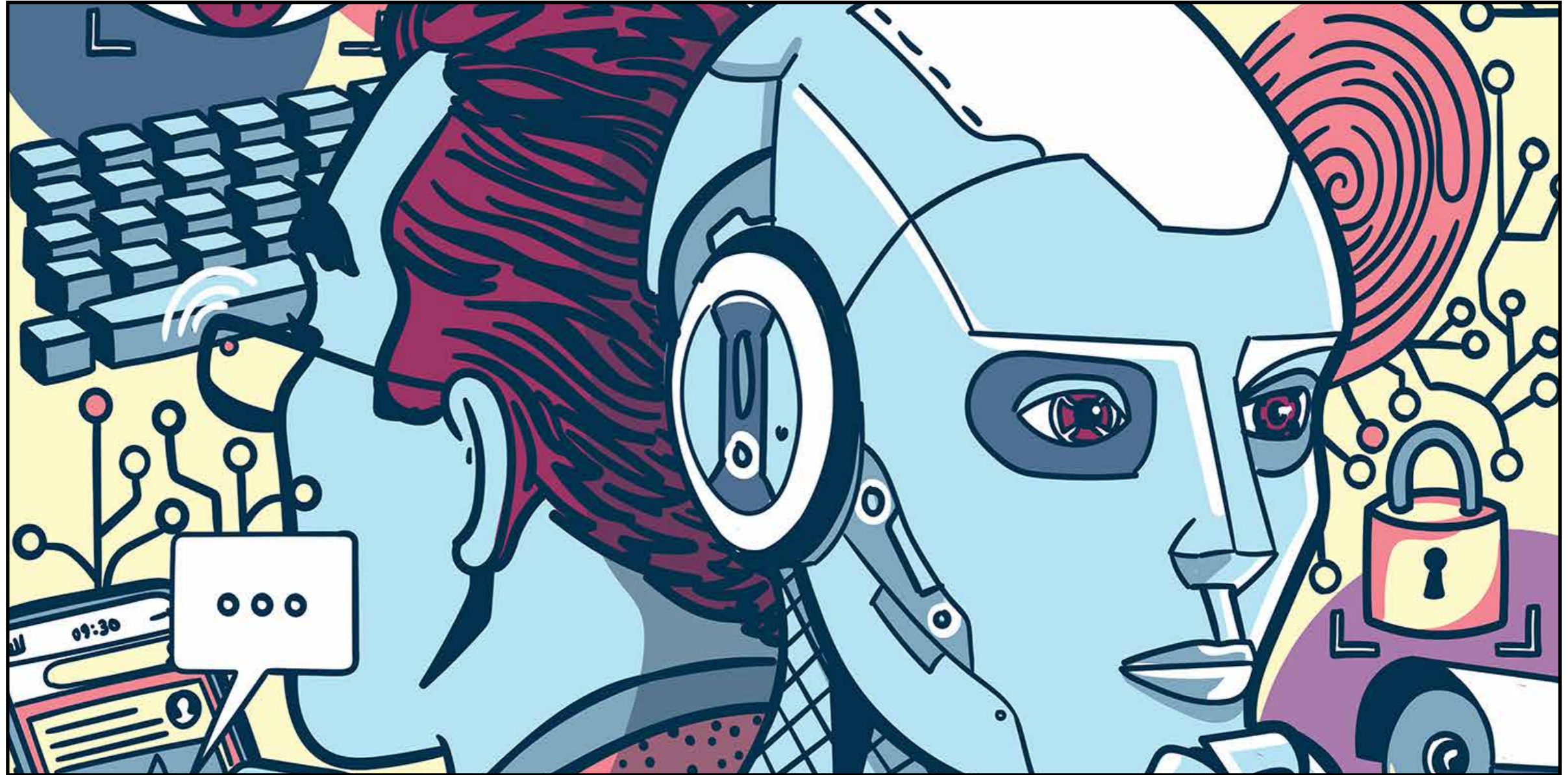


POSTERS

THE STARS FRAMEWORK

Poster 22-045-01

CREST SECURITY REVIEW



OVERVIEW

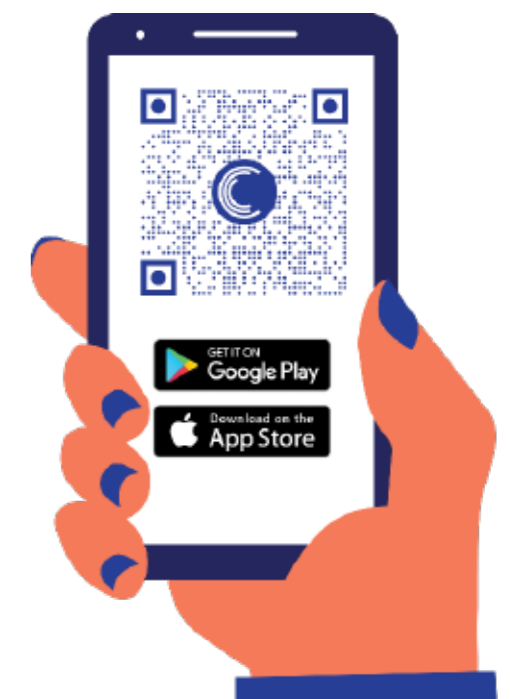
CREST Security Review (CSR): presenting accessible, informative, world-leading research on security threats. Produced by experts for the needs of government, law enforcement and security professionals.

The articles in *CSR* translate academic jargon to 'so what' answers and illustrate how behavioural and social science can be used effectively in everyday scenarios.

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CSR #1

Eliciting information



With a special focus on Information Elicitation this issue showcases research on why we are more trusting online, eliciting information the friendly way, and which lie detection techniques work. Other articles cover how your watch will soon know you better than yourself and what are the similarities and differences between Sunni and Shi'a Muslims.

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- 3 — From The Editor
- 4 — The Future Of Wearable Tech
Your watch will soon know you better than you know yourself
- 12 — The Promise Of Social Science
Answering the human problems that are so central to security
- 16 — How Does Memory Work?
It is fallible, malleable, and hugely impressive
- 20 — Sunni And Shi'a Muslims
One religion, two branches. Their similarities and differences revealed
- 24 — Creativity And Cyber Security
Art and tech are unlikely but insightful bedfellows

- INFORMATION ELICITATION**
- 7 — Eliciting Information Online
Why are we more trusting online?
 - 8 — Improving Practice Through Research
What is the impact of the US educating information study 10 years on?
 - 10 — The A-Z Of Information Elicitation
Home of one of the most valuable Zs
 - 14 — Eliciting Information The Friendly Way
The tricks of master interrogator Hans Scharff uncovered
 - 18 — Science And The Lie Detectors
Lie detection techniques abound. We review which ones work.
 - 22 — Turning Research Into Practice
The story of how the investigative interview evolved
 - 26 — Mind Map On Elicitation
We chart the lay of the evidence land

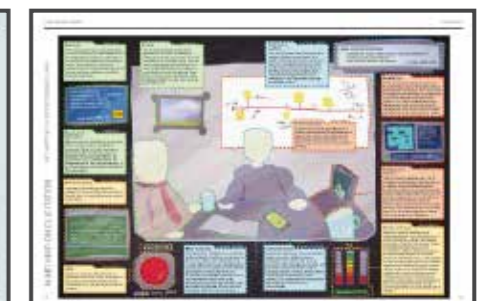
Highlights

HOW DOES MEMORY WORK?

Suggestible, transient, social and in need of our help... just how does the memory work? Lorraine Hope sets out what interviewers need to know - p16

TURNING RESEARCH INTO PRACTICE

Research has helped bring about a transformation in how police in the UK understand and use interviews. Jordan Nunan and Rebecca Milne tell us how - p22



CSR #2 Cyber Security



This issue of CSR considers social science contributions to cyber security. It highlights research on 'everyday insider threats' to organisations, the threat from cyber enabled and cyber dependent crimes and the hacker mind set. There's also a long-read on the future of religious belief and extremism as well as findings from research on English Defence League activists.

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- 3 — From The Editor
- 4 — Terrorists' Use Of Messaging Applications
What features might be attractive to criminals and terrorists?
- 6 — Building Good Rapport In Interviews
How to be friendly and interview people
- 20 — The Role Of Technology In An Emergency
How has technology changed responses to emergencies?
- 22 — Expanding The Frontiers Of Interrogation Research And Practice
An insight into the US High-Value Detainee Interrogation Group
- 24 — Loyal Footsoldiers
The attractions of EDL activism
- 26 — The Continuing Growth Of Religious Extremism
A long read on the future of religion

CYBER SECURITY	
8	PETRAS - Cyber Security Of The Internet Of Things Research to make the Internet of Things safer
10	Employees Behaving Badly? Understanding the problem of everyday insider threats
12	Everyday Security A manifesto for new approaches to security modelling
14	Cyber Security And The Politics Of Time Why we shouldn't play catch-up to cyber crime
16	Cyber Crime And The Social Web Research on the new frontier for international security and crime fighting
18	The Hacker Mind Set There is no one-size-fits all profile
30	Factcheck: The Cyber Security Attack Surface Seven facts on the size and complexity of vulnerable systems and devices

Highlights

BUILDING GOOD RAPPORT IN INTERVIEWS

Interviews are most effective when there is good rapport with suspects. Laurence Alison, Michael Humann and Sara Waring analysed 1,000 hours interviews to find out what works – p6

THE CONTINUING GROWTH OF RELIGIOUS EXTREMISM, AND HOW TO COUNTER IT

The extremist drift is not just Islamic - Linda Woodhead looks at what the future holds for religious belief - p26



CSR #3 Transmission



Understanding how extremist ideas are transmitted is a key priority of many governments and law enforcement, security and intelligence agencies. This issue of CSR focuses on 'transmission' – the transmission of ideas, beliefs and values. Studying transmission focuses attention on how, where and by whom extremist ideologies are acquired and spread. Most ideas and values are not extreme, and the issue includes articles on transmission of religious identity within families and on how the internet has affected transmission.

CONTENTS

3	From The Editor	18	From Ideological Material To Targeting Choice In Leaderless Jihad Does the consumption of jihadist material determine targets?
4	Why Transmission? What we learn from studying the transmission of ideas	20	A Different Perspective On CVE An interview with Ray Hill, grassroots CVE activist
6	Learning To Be A Muslim How families nurture religious identity	22	Disrupting Transmission Of Extremist Messaging How can schools counter extremism?
8	Religious Transmission Among Young Adults In The Digital Age The internet helps young Sikhs explore their religion	24	How Radical Ideas Spread And Take Hold Progress is not irreversible
10	Transmitting Terrorism - A Family Affair? Not everyone does what their parents tell them. Why?	26	Just Another Face In The Crowd? What makes spotting unfamiliar faces difficult?
12	How Beliefs May Come And Go Why do people join, and leave, cults?	28	When Does Inconsistency Matter? Should we worry when interviewees change their stories?
14	Transmitting Legitimacy And Victimhood The use of prisoners in Northern Ireland to confer legitimacy	30	Mindmap On Transmission Where does socialisation take place?
16	Transmission In Context Innovation in the suffragettes and loyalist family solidarity		

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GRASSROOTS CVE

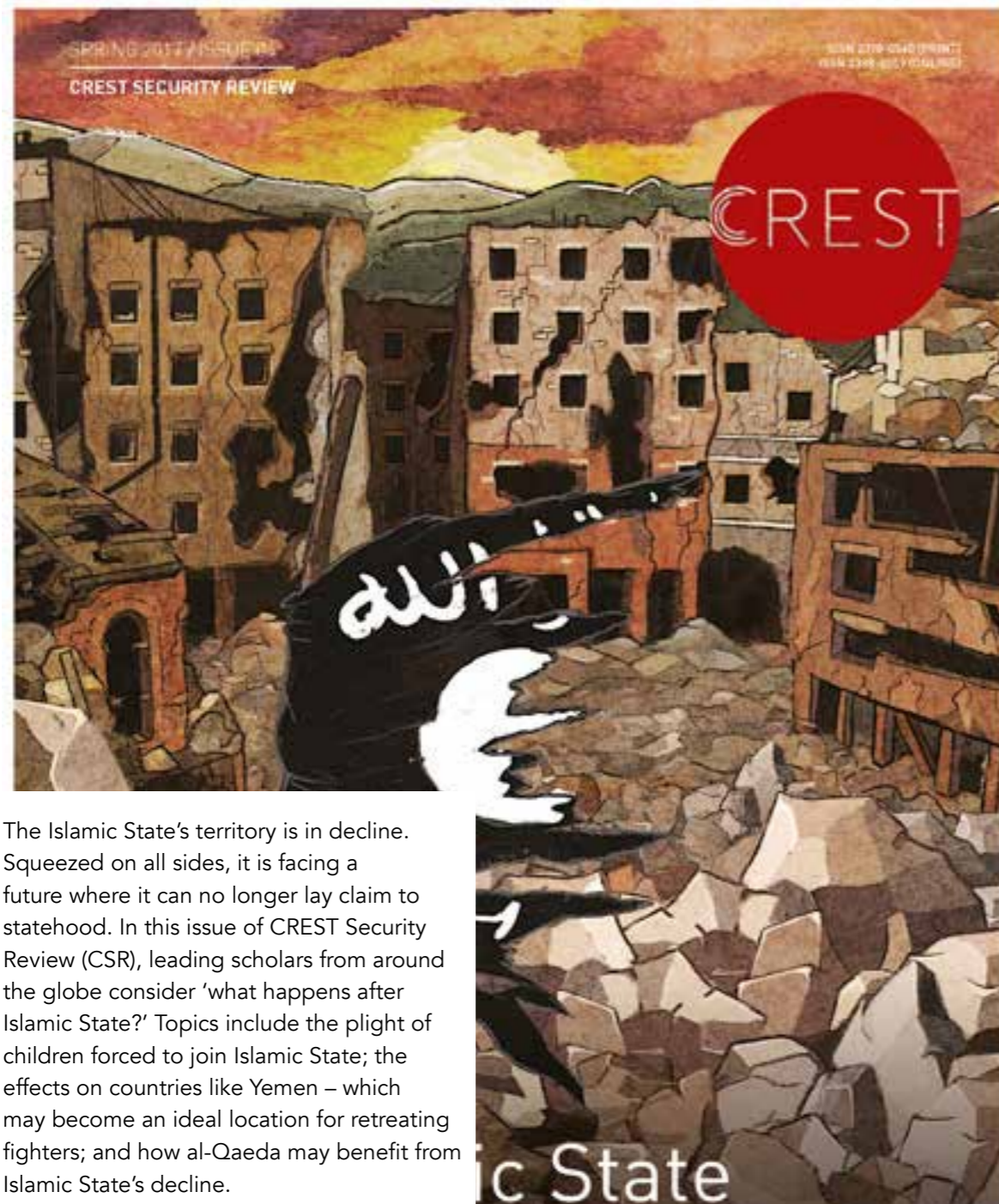
It isn't just governments seeking counter violent extremism - one former far-right activist has been challenging it for years in his local community - p20

TRANSMITTING LEGITIMACY AND VICTIMHOOD

How have violent dissident Irish Republicans sought to keep their quest for legitimacy alive - p14



CSR #4 After Islamic State



The Islamic State's territory is in decline. Squeezed on all sides, it is facing a future where it can no longer lay claim to statehood. In this issue of CREST Security Review (CSR), leading scholars from around the globe consider 'what happens after Islamic State?' Topics include the plight of children forced to join Islamic State; the effects on countries like Yemen – which may become an ideal location for retreating fighters; and how al-Qaeda may benefit from Islamic State's decline.

CONTENTS

AFTER ISLAMIC STATE

REGIONAL GUIDES

- 4 — **Yemen**
The next destination for IS's fleeing fighters?
- 6 — **Jordan**
An 'I told you so' for anti-IS jihadists
- 7 — **Iran**
Good news, but what next?
- 8 — **Tunisia**
IS might go, but the same problems remain
- 9 — **Libya**
IS may be scattered, but it hasn't gone
- 18 — **Remainers And Leavers: Foreign Fighters After The 'Islamic State'**
What are the options for the fighters facing defeat?
- 20 — **Lessons From The Decline Of The North Caucasus Insurgency**
IS weren't the first to try to build a state. What can we learn from past failures?
- 22 — **The Place Of Night Dream Inspiration And Propaganda**
Dreams are important to IS. How do they account for loss?
- 24 — **Transnational Activism Through The Ages**
People have long gone to fight abroad. How have past policies treated them on their return?
- 10 — **The Lost Boys**
What next for the children of the caliphate?
- 14 — **The Islamic State And Ayman Al-Zawahiri's 'Alternative Jihad'**
Rumours of al Qaeda's demise have been greatly exaggerated
- 16 — **What Next For Islamic State?**
Engrenage – the future non-strategy of IS?

- 3 — **From The Editor**
- 26 — **Sri Lanka, Diaspora Politics And The End Of Violence**
Tamil diasporas have helped prevent a return to violence in Sri Lanka
- 28 — **Everyone's A Conspiracy Theorist**
Conspiracy theories in the age of Trump and Brexit
- 30 — **7 Things Worth Knowing About Groups**
What do we know about groups, and how to make them fail?

Highlights

REMAINERS AND LEAVERS: FOREIGN FIGHTERS AFTER THE 'ISLAMIC STATE'

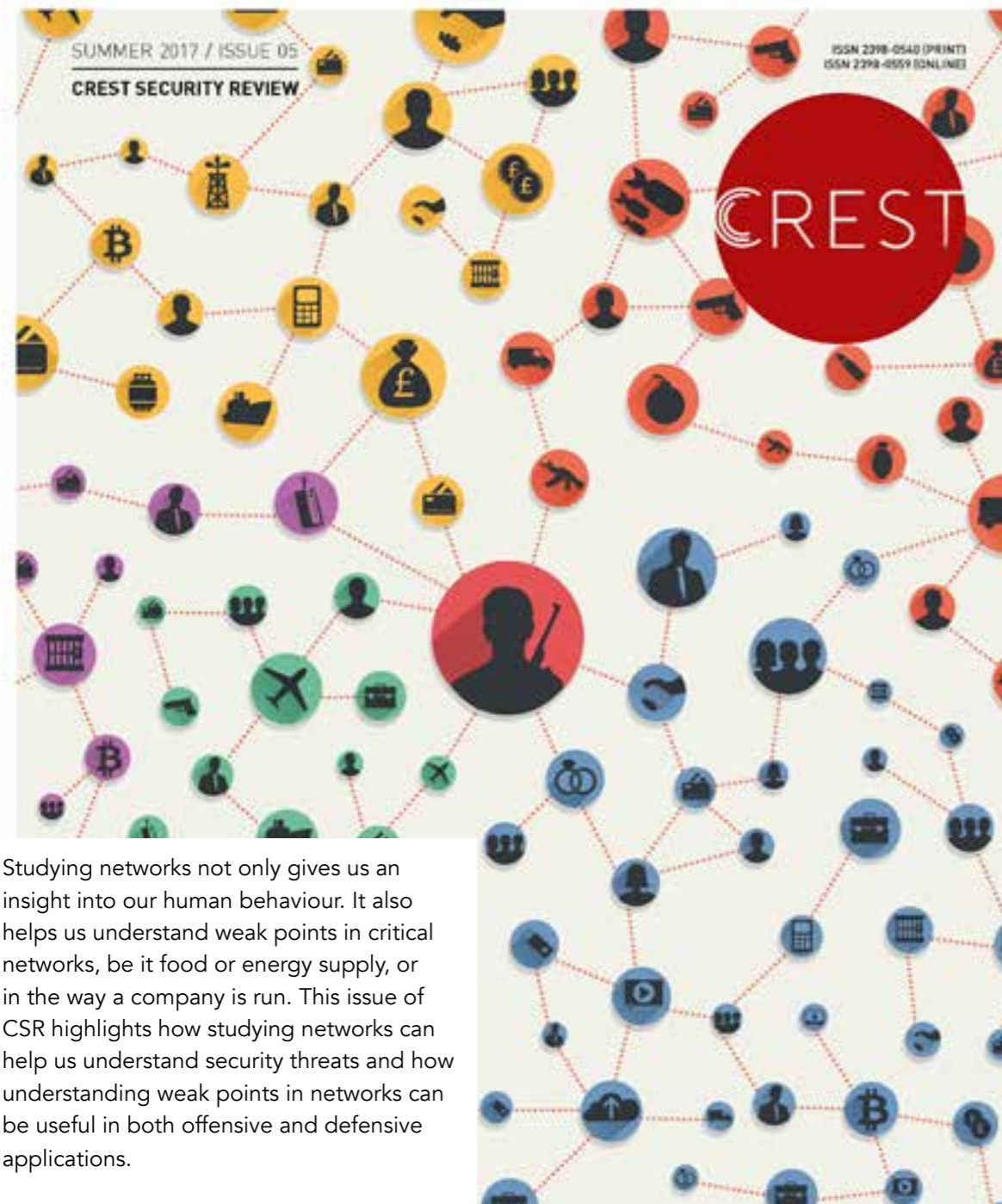
What drives decisions for foreign fighters, and what options are available to them? – p18

CONSPIRACY THEORIES ARE FOR LOSERS

Conspiracy theories are on the fringes of public opinion, and yet so many of us believe them – p28



CSR #5 Networks



Studying networks not only gives us an insight into our human behaviour. It also helps us understand weak points in critical networks, be it food or energy supply, or in the way a company is run. This issue of CSR highlights how studying networks can help us understand security threats and how understanding weak points in networks can be useful in both offensive and defensive applications.

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- 3 — From the Editor
- 22 — Rapport
What is it and how can you increase it?
- 24 — Community Reporting
The key to defeating terrorism?
- 26 — Female Participation In Violence
Did the women of the Red Army Faction aid social progress?
- 28 — The Far-Right
An overview of the complex far-right landscape

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6	Leadership Is A Social Network Rethinking leadership through a social network lens
8	Bad Apples Using networks to predict their impact on team performance
10	Predicting Failure Of Complex Systems Can Kim Kardashian's photo break the internet?
12	Things That Spread Understanding how epidemics spread on networks
14	Social Network Messaging How Islamic State uses Telegram to communicate
16	Covert Networks Social network analysis can help us study terrorist groups
18	Trust And Insider Threat How can organisations retain the trust of their employees?
20	Extremist Prose As Networks Analysing the structure of extremist communications
30	Bluffers Guide Learn the technical terms of network analysis

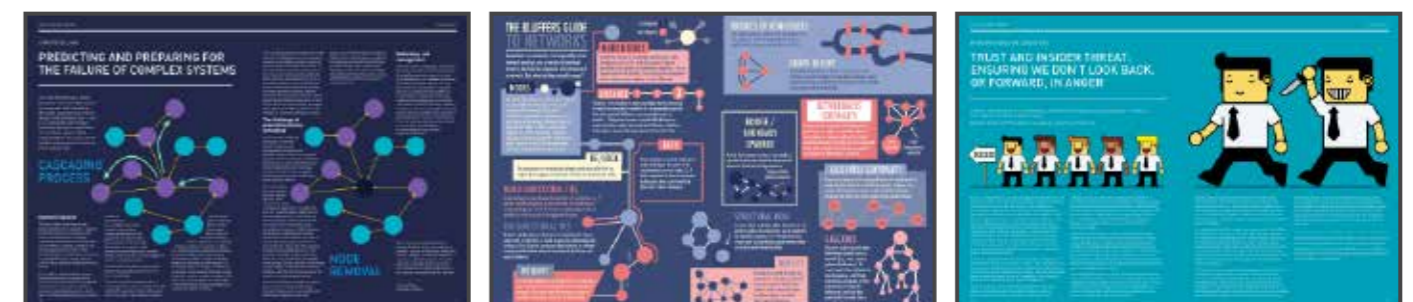
Highlights

KIM KARDASHIAN AND COMPLEX SYSTEMS

Can we predict and prepare for a co-ordinated event disrupting a complex system? – p10

BLUFFERS GUIDE TO NETWORKS

Don't know your betweenness centrality from your boundary spanner? Read our guide – p30



CSR #6 Decision Making



From teams operating in extreme environments, to the emergency services, to people responsible for cyber security, understanding decision making is very important. Current research can help decision makers avoid misleading biases, from being paralysed by the choices available, or failing to get information out to the people who need it. In this issue we feature some of the latest research, including decision-making processes in cyber security, decision making under stress, and terrorist decision making.

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- 3 — From The Editor
- 18 — **Communicating With Casualties**
Helping casualties help themselves
- 20 — **Understanding Engagement In Violent Extremism**
Lessons from Northern Ireland
- 22 — **Social Engineering**
How we're tricked in to falling for scams
- 24 — **Error Handling**
Getting past mistakes in interviews and negotiations
- 26 — **How Smugglers Behave**
Research disproves the myth that jittery behaviour is easy to spot
- 31 — **Read More**
Find out more about the research we've featured

DECISION MAKING

- 4 — **Decision Making Under Stress**
The effects of remote and extreme environments
- 6 — **Cyber Security Decisions**
Investigating cyber security decision-making processes
- 8 — **Decision Making During Emergencies**
What have we learned and where do we go from here?
- 10 — **Assessing Threats Of Violence**
Does professional experience lead to better assessments?
- 12 — **Measuring Decision Making**
Field-testing nudges in behaviour
- 14 — **Naturalistic Decision Making**
Moving research on decision making from the lab to the real world
- 16 — **Terrorist Decision Making**
8 things you need to know
- 28 — **A-Z Of Decision Making**
Learn to tell your anchoring from your heuristics

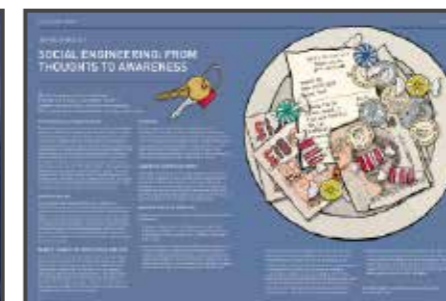
Highlights

MORE GULLIBLE THAN YOU THINK

We might think we wouldn't give our keys to a stranger, but most of us would - p22

DECISION MAKING UNDER STRESS

What factors affect the decision-making capability of groups in extreme or remote environments? - p4



CSR #7 Transitions



From helping extremists reintegrate back into society, to looking at cults and the reasons why people both leave and stay, this issue explores the series of difficult transitions some individuals and groups make. It includes research on programmes that help extremists make the transition from violent groups back into society; research that helps crisis negotiators train successful negotiation techniques, and research that looks at Russian interference on Twitter following the 2017 UK terror attacks.

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- 3 — **From The Editor**
- 18 — **Intelligence ethics: not an oxymoron**
Applying intelligence and security activities to ethical concepts of the 'Just War' tradition
- 20 — **Sikh Radicalisation In Britain**
Events in 1984 changed Sikh activism in Britain, but did they lead to radicalisation?
- 22 — **Russian Interference On Twitter**
Evidence of attempts to influence UK public discourse following the 2017 terror attacks
- 24 — **Communicating Across Cultures**
We're awful at spotting deception across cultures. Why?
- 28 — **Mindmap: 'I Don't Know'**
What are the reasons why sources say 'I don't know'?
- 31 — **Read More**
Find out more about the research we've featured

TRANSITIONS

- 4 — **'Deradicalisation' And Desistance**
A framework for supporting the reintegration of extremists
- 6 — **Talking Someone Down**
Research shows crisis negotiators which tactics work and when
- 10 — **Exiting Extremism**
Re-socialising extremists in a Swedish programme
- 14 — **The Refugee Journey**
Risks from displacement and repeated transitions
- 16 — **Leaving Cults**
Why people leave, and how to help them

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DRUNK, LOOKING THE WRONG WAY OR PLAIN LYING?

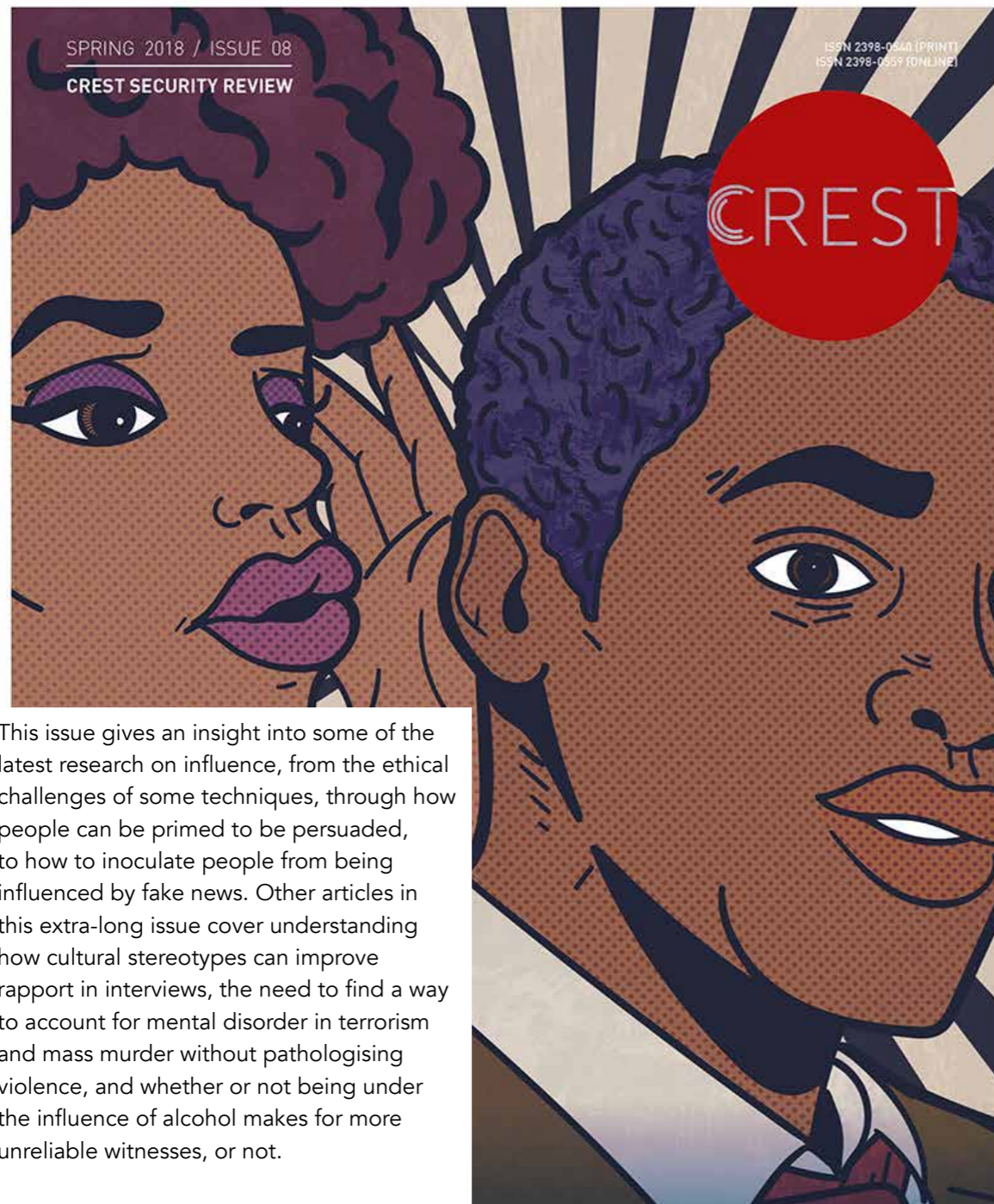
What do sources mean when they say 'I don't know' in an interview? This mindmap highlights what the evidence says about possible reasons – p28

SIKH RADICALISATION

There's plenty of activism around issues like 1984 and Khalistan but, despite claims to the contrary, research finds there is no threat to Britain from Sikh radicalisation – p20



CSR #8 Influence



This issue gives an insight into some of the latest research on influence, from the ethical challenges of some techniques, through how people can be primed to be persuaded, to how to inoculate people from being influenced by fake news. Other articles in this extra-long issue cover understanding how cultural stereotypes can improve rapport in interviews, the need to find a way to account for mental disorder in terrorism and mass murder without pathologising violence, and whether or not being under the influence of alcohol makes for more unreliable witnesses, or not.

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36	The Far Right And Reciprocal Radicalisation Could fragmentation within the far right contribute to increasingly extreme responses to Islamist terrorism?	42	Read More Find out more about the research we've featured

INFLUENCE

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6	Subtle Influence And Information Disclosure How priming works in intelligence interviews	22	Lingering Problems With The Mr Big Technique Problems with a psychologically invasive and manipulative influence tactic
8	Gaining Influence Through Genuine Connection And Rapport Eliciting information without force or trickery	26	Positively Influencing Individuals During Organisational Change Strategies for mitigating the risk of insider threat from disillusioned employees
10	Can We Inoculate Against Fake News? Combating misinformation by preventing it from sticking in the first place	30	Try To See Things My Way? The role of perspective in influencing information elicitation
12	The Partisan Brain Why people are attracted to fake news and what to do about it	32	Cross-Cultural Dimensions Impacting Persuasion And Influence Influence tactics rooted in Western culture may fail in other cultures, what should we look out for?
14	Did You Really See It, Or Just Hear About It? In the misinformation age, remember that your memories might be fake news	34	Using Stereotypes To Prepare For Interviews Stereotypes can inform rapport building and increase information gain
16	Influence In Extremist Messaging Establishing patterns in the language of extremist groups	40	A-Z Of Influence Tactics And Topics Learn the difference between a door in the face and a foot in the door
18	The Trade Of The Tricks How principles of magic can influence people's understanding		

Highlights

UNDER THE INFLUENCE

What does alcohol-intoxication mean for the reliability of evidence? Research shows it affects the quantity of information but crucially, not the quality – p20

USING STEREOTYPES TO PREPARE FOR INTERVIEWS

Stereotypes are often seen as contributing to barriers to rapport. But the opposite can be true and they can even be used to influence interviewees to disclose more information – p34



CSR #9

Data



This issue highlights research on Data, and in particular on how the social and behavioural sciences can help us see the value that data and computer science can bring to understanding and countering security threats. Articles include a look into how algorithmic decision-making can be improved, to help build trust between governments and citizens; the challenges of applying big data solutions to small data problems and the risks and opportunities in using big data to predict behaviour. Two further articles address issues relating to extremism: one on why some extremists or groups choose not to engage in violence; and the second provides us with an introduction to good practice in countering violent extremism.



CONTENTS

- 3 — From The Editor
- 16 — **Untangling The Past**
Remembering details of repeated events
- 18 — **Cognitive Load At Interview: The interviewer's Perspective**
Interviewers have a lot to process. How does it affect their performance?
- 20 — **Countering Violent Extremism: A Guide To Good Practice**
What good CVE practice should look like
- 22 — **The Role Of 'Internal Brakes' On Violence**
New research helps explain why some extremists choose not to engage in violence
- 26 — **Read More**
Find out more about the research we've featured

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LEVERAGING LANGUAGE DATA

Computational Language Analysis can help profile the person behind a text and gives us important clues about their future behaviours - p6

THE PROBLEM OF PREDICTING SOME OF THE PEOPLE, SOME OF THE TIME

While patterns of data exist, it is difficult to know which elements apply to subjects of interest. We still need to rely on humans to help us navigate ecological inference problems - p14

DATA	
4	Data And The Social And Behavioural Sciences How can data science and behavioural science enhance each other?
6	Psychological Profiling Using Computational Language Analysis Understanding the person behind the text
8	Words As Data The vulnerability of language in an age of digital capitalism
10	The Challenges And Opportunities Of Big Data What are the challenges in predicting behaviour based on our digital footprints?
12	Algorithmic Decision Making How can re-designing system interactions help build trust between governments and citizens?
14	From Data To Datum - What Should I Do In This Case How an security professionals successfully combat the ecological inference problem?
24	A-Z Of Data Master the difference between deep learning, machine learning and unsupervised learning.



CSR #10

Stress and Resilience



To varying degrees, stress is a factor in all our lives, but security work is inherently stressful. Individuals working in security often make high-consequence decisions, in complex and potentially dangerous situations, and sometimes whilst exposed to extreme environments. It is therefore crucial to operational success to identify sources of stress and implement effective coping strategies. Guest edited by Emma Barrett and Nathan Smith, this 10th issue of CREST Security Review (CSR) helps develop understanding on how we can identify, learn about and apply lessons from how stress manifests as well as how resilience can be developed.



CONTENTS

- 3 — **From The Editor**
- 38 — **Increasing Accurate Recall In Human Sources**
How focusing on context can enhance memory recall
- 40 — **Understanding The Roles Women Play In Violent Extremism**
What role did female members of Islamic State play and why does it matter?
- 42 — **Read More**
Find out more about the research we've featured in this issue

STRESS AND RESILIENCE

- 4 — **Stress And Resilience In Security Contexts**
Guest editorial
- 6 — **Conflict Management In Extreme Environments**
Practical strategies for managing conflict in isolated teams
- 8 — **Challenge Or Threat**
Understanding how people cope in demanding environments
- 10 — **Memory And Stress**
Examining the impact of stress on memory for high-pressure incidents
- 14 — **Stress And Resilience In Al-Qaeda Terrorists**
How al-Qaeda sought to train resilience to stress
- 18 — **Strengths And Vulnerabilities In (Covert) Network Structure**
How might terrorist networks be susceptible to disruption
- 20 — **Go With The (Information) Flow**
How to develop more resilient sociotechnical systems
- 22 — **Cyber Resilience**
What is it and how do we get it?
- 24 — **Developing Resilience For Sustained Success**
Optimising social and organisational environments to promote resilient responses to stress
- 28 — **Refugee Resilience**
Identifying the effects of stress and funding ways to strengthen resilience in refugee communities
- 30 — **The Deep Effects Of Armed Conflict**
Intervening in the complexities of post-conflict reconciliation
- 34 — **Remote Combat Readiness And Resiliency**
Supporting the resiliency and performance of remote combat operators

Highlights

UNDERSTANDING THE ROLES WOMEN PLAYED IN THE ISLAMIC STATE

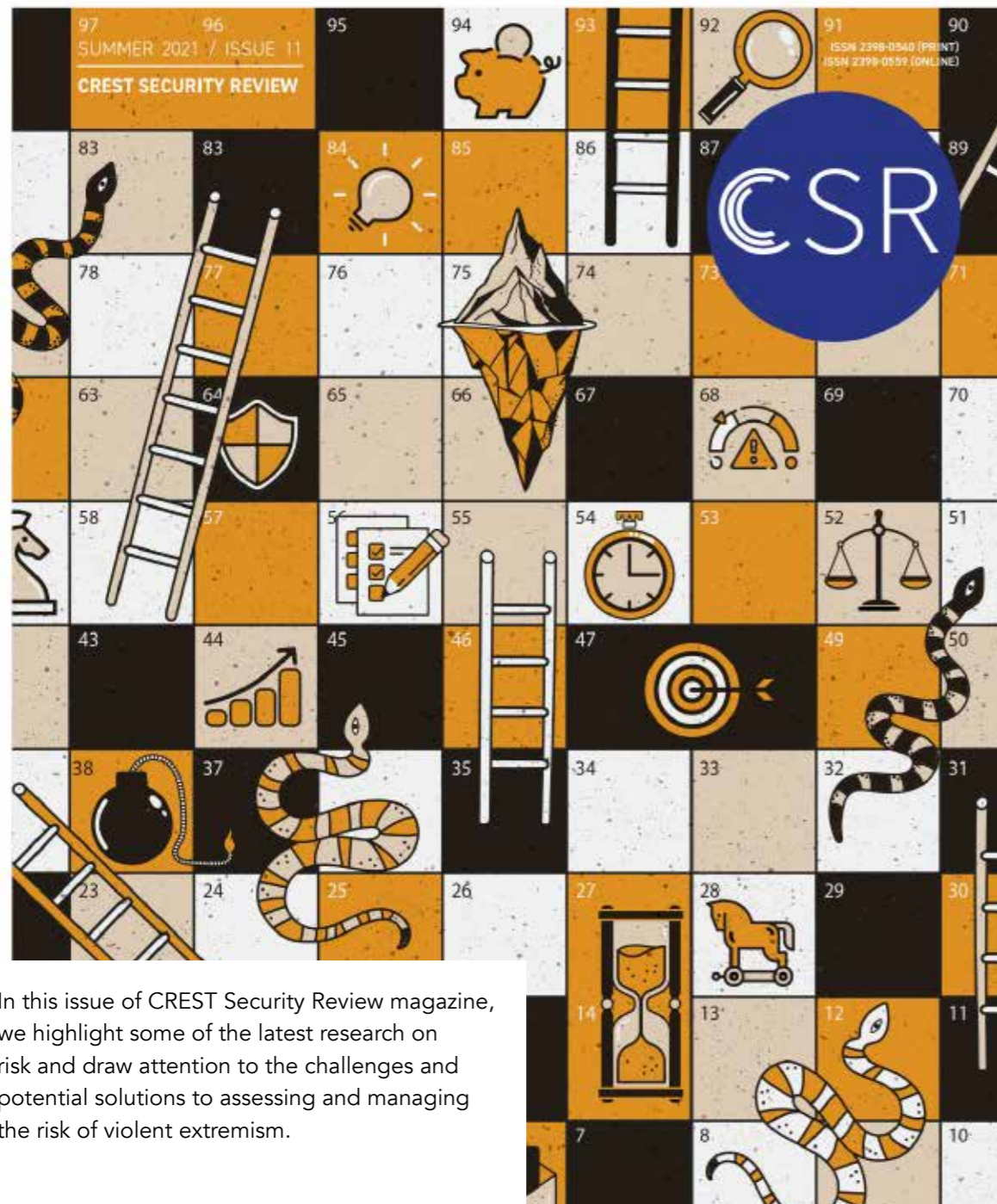
Assumptions made about female members of Islamic State can lead to underestimating or misunderstanding the threat they may pose when they return - p40

HOW TO DEVELOP MORE RESILIENT SOCIOTECHNICAL SYSTEMS

Research on a submarine control room simulator helps us understand how technologies, human operators and interactions between the two can be optimised to create systems that are more resilient to changing demands and operational requirements - p20



CSR #11 Risk



In this issue of CREST Security Review magazine, we highlight some of the latest research on risk and draw attention to the challenges and potential solutions to assessing and managing the risk of violent extremism.

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- 3 — From The Editor
- 24 — **Identifying Informant Motivation: The FIREPLACES Framework**
A mnemonic framework to help better identify and understand the motivations of informants
- 28 — **Narratives Of The Far-Right**
A short guide to far-right narratives
- 30 — **Resilient Performance Of Defence And Security Personnel**
New insights may help promote resilience in demanding environments
- 32 — **The Adaptable Law Enforcement Officer**
What is adaptive behaviour? How can it be measured?
- 38 — **Read More**
Find out more about the research we've featured in this issue

RISK

- 4 — **Risk, Benefits, And The Affect Heuristic In Security Behaviours**
How to reduce reliance on affective processes when making risk judgements
- 8 — **Communicating Effectively With The Public About Terrorism In Crowded Places**
How effective is public messaging in promoting protective health behaviours?
- 10 — **Protecting Publicly Accessible Locations From Terrorism**
What are the barriers to and incentives for the inclusion of protective security measures?
- 14 — **Terrorism Risk Assessment: What Makes A 'Good' Risk Assessor?**
Little is known about risk assessors and what they think is vital to the role
- 16 — **Violent Extremism: The Assessment And Management Of Risk**
8 recommendations for improving assessment and management of risk
- 20 — **Risk Factors For Violent Extremist Beliefs And Parallel Problem Areas**
Does a strong conspiracy mentality lead to violent extremist intentions?
- 22 — **If This Then...What? Security And Privacy In Trigger-Action System**
Can people be primed to think about security and privacy when setting trigger-action rules for smart home devices?
- 36 — **A-Z Of Risk Assessment Tools And Topics**
Understand the difference between quality assurance and quality control

Highlights

COMMUNICATING EFFECTIVELY WITH THE PUBLIC ABOUT TERRORISM IN CROWDED PLACES

Research on the effectiveness of existing campaigns (e.g. 'See it, Say it, Sorted') in preventing attacks by increasing reporting behaviours – p8

VIOLENT EXTREMISM: THE ASSESSMENT AND MANAGEMENT OF RISK

Eight recommendations for why and how practitioners should use developments in the risk and threat assessment field – p16



CSR #12 COVID-19



The COVID-19 pandemic triggered the biggest global crisis of our time, with lasting changes to society from how we shake hands, where we work, how we hold meetings, travel and socialise, to our perceptions of risk, law and order, and privacy. As we grasp its continuing impact on society, this issue of CSR highlights some of the responses of behavioural and social science researchers to the pandemic, applying novel lessons to security threats caused or exacerbated by the outbreak.

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- 3 — From The Editor
- 24 — **The Phoenix Model: Disengagement And Deradicalisation**
A new model for understanding disengagement and deradicalisation processes.
- 28 — **Islamic State, Filters, And Photoshop**
How the Islamic State edits its images to support its narratives.
- 30 — **The Eliciting Information Framework: A Vehicle For Research Into Practice**
A framework to help practitioners whose role is to elicit information, negotiate or build relationships with others.
- 34 — **Read More**
Find out more about the research we've featured in this issue.

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THE GROUND TRUTH AFTER-ACTION REVIEW TOOL

The after-action review tool Ground TRUTH helps prepare for, adapt to, and recover from critical incidents – p18

BALANCING CYBERSECURITY AND PRIVACY IN THE REMOTE WORKFORCE

Remote working will only truly work if we get the balance of security and privacy right – p20

COVID-19

- 4 — **How Has Covid-19 Changed The Violent Extremist Landscape?**
The reordering of democratic state-citizen relations can breed violent extremist thinking.
- 6 — **Lessons From A Rapid Response**
How one team's rapid response process to COVID-19 can be applied to similarly demanding situations.
- 10 — **Where Was I Last Wednesday?**
Why contact tracing needs a dose of memory science.
- 12 — **Intelligence Gathering During A Pandemic**
How did informant handlers adapt to the measures implemented during the pandemic?
- 14 — **Multi-Agency Emergency Response**
How can effective communication across agencies be maintained during crises?
- 16 — **The "Infodemic", Inoculation, And Insurrections**
A COVID-19 vaccination communication handbook tackles misinformation.
- 18 — **The Ground TRUTH After-Action Review Tool**
The after-action review tool Ground TRUTH helps prepare for, adapt to, and recover from critical incidents.
- 20 — **Balancing Cybersecurity And Privacy In The Remote Workforce**
As remote working increased during the pandemic, so too did the cyber-attacks aiming to exploit it.
- 22 — **Covid-19 Conspiracy In Ireland And The Far-Right Nexus**
Is there a link between a rise of the far right and COVID-19 related conspiracy theories?



CSR #13 Technology



Emerging technology can give us a unique opportunity to anticipate, plan, counter, and respond to security threats as we move forward in an ever-changing world. But that same advancing technology can also be weaponised against us. This issue of CREST Security Review highlights the new opportunities and problems that advances in technology bring through a behavioural and social science lens.

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- 3 — **From The Editor**
- 28 — **NCITE**
A look at the designated counter terrorism and targeted violence research centre for the US Department of Homeland Security.
- 30 — **Evaluating The Channel Programme's Vulnerability Assessment Framework**
An outline of the results of a process evaluation of the Vulnerability Assessment Framework (VAF).
- 32 — **How (Not) To Make A Violent Copycat: Lessons From 'Dark Fandoms'**
How 'Dark Fandoms' may incite 'copycats' – one path to violent extremism.
- 34 — **Read More**
Find out more about the research we've featured in this issue.

Highlights

CONVERGING SECURITY

Without evidence and guidance, organisations seeking to adopt convergence may be setting themselves up for failure – p18

CHINA'S DIGITAL DIPLOMACY

Social media platforms are places where China, amongst many other states, are seeking to increase reach and influence watching publics around the world – p20

TECHNOLOGY

- 4 — **Bad Data, Worse Predictions**
How does measurement error in crime data affect crime prevention?
- 6 — **Identity Fraud In The Digital Age**
How are advances in technology bringing new problems to the task of detecting identity fraud?
- 8 — **"Give Me A Ping, Vasili. One Ping Only"**
Why the success of machine learning depends on empowered people.
- 12 — **Linguistic Threat Assessment: Challenges And Opportunities**
Large-scale linguistic analysis may help security practitioners make sense of violent communications.
- 14 — **Converging Security**
Why cyber and physical security should collaborate, and what it takes to achieve this.
- 16 — **SPECIAL: Lightning Articles**
 - It's not what you typed, it's the way you typed it...
 - The identity in everyone's pocket.
 - "OK Google, should I click on that email?"
 - CCTV analysis of violent emergencies.
- 20 — **Mapping A New Biometrics Landscape**
Law enforcement and researchers collaborate to develop an understanding of new biometrics.
- 22 — **China's Digital Diplomacy**
We get the message... China's social media war on foreign criticism.
- 26 — **Why AI Systems Need To Explain Themselves**
The question of 'explanation' in human interaction with Artificial Intelligence (AI) systems.



CSR #14

Trust



Trust permeates most aspects of our lives and allows us to function on a daily basis. We trust the food we order has not been tampered with. We trust a vet to care for our sick pet. We trust our house to keep us warm, safe, and dry. Security contexts are no exception. Trust offers a mental shortcut that allows us to make immediate (and at times automatic) decisions. In some cases, this is useful as it frees up thinking space to focus on other tasks. In other cases, trust-as-a-heuristic, can be problematic.



CONTENTS

- 3 — From the Editor
- 28 — **Right-wing Extremism Online – Can we use Digital Data to Measure Risk?**
Combining psychology and computational science methods to identify whether online behaviour can be used to infer the risk offline.
- 30 — **What is Siege Culture?**
Siege Culture is the most extreme interpretation of fascism and national socialism seen yet.
- 32 — **Read more**
Find out more about the research we've featured in this issue.

Highlights

RECOVERING FROM FAILURE

What can organisations do to repair trust?
– p20

MY LIFE IN YOUR HANDS

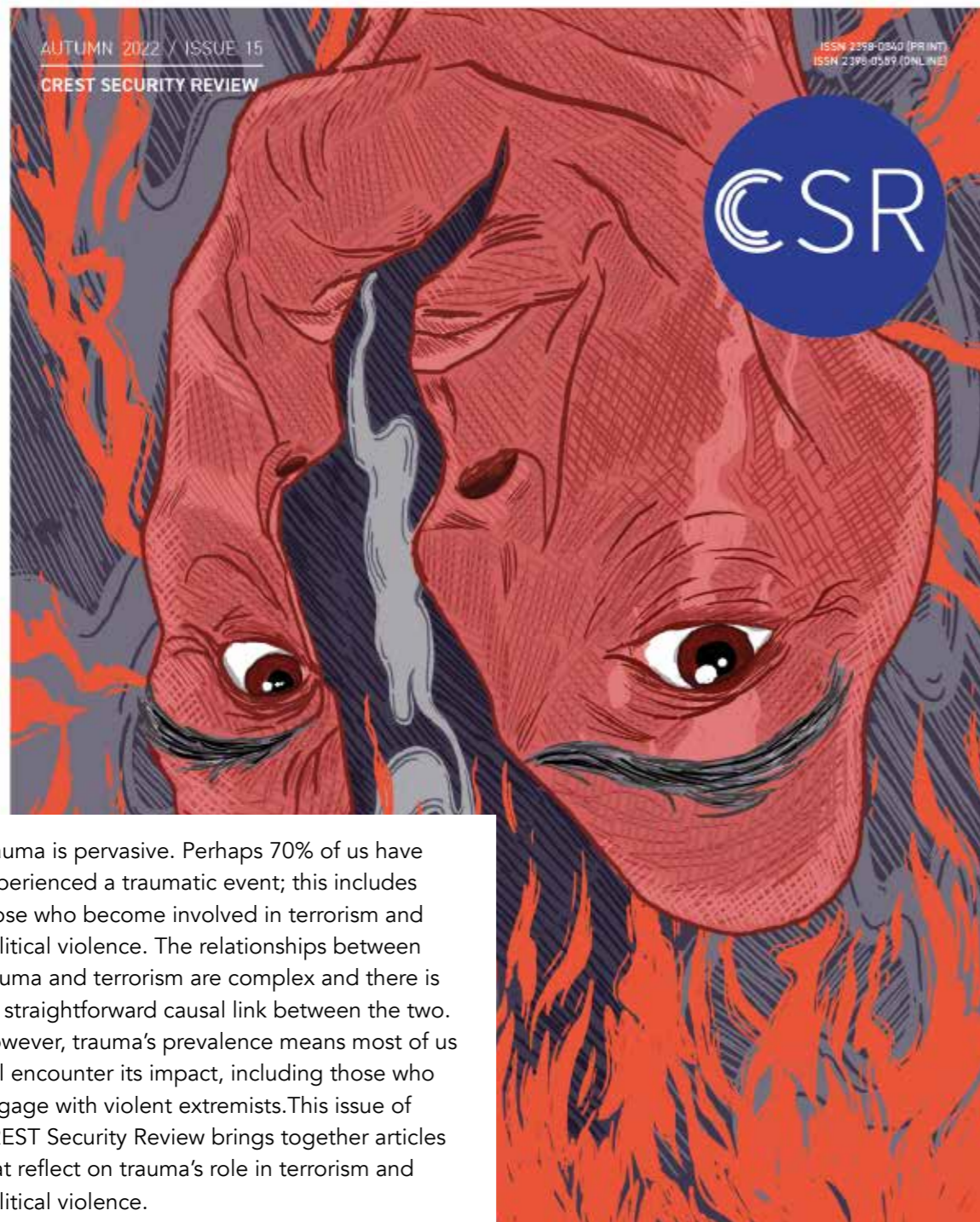
Is it a problem to blindly trust AI? What might happen if you do? – p22

TRUST

- 4 — **Trust in Security Contexts**
An overview of the articles focusing on our special topic of trust.
- 6 — **Rapport and Trust: What's the Difference?**
Rapport and trust are not the same: how research is attempting to disentangle these concepts.
- 8 — **Evaluating Trust And Rapport: A Practitioner's Guide**
Using the Eliciting Information Framework to distinguish between trust and rapport.
- 10 — **Trust Thy Enemy: Trust and Relationship-Building between Source Handlers and Informants.**
A look at trust in information disclosure.
- 12 — **Trust Signals**
Can our automatic behaviours tell us more about how much we trust than our thought-out beliefs?
- 14 — **Lessons For Security Practitioners from the Science of Betrayal**
Betrayal in defence, security, and policing contexts.
- 18 — **Trust = Confidence + Vulnerability. The Role of the Leader**
How do leaders promote trust and reduce security risks?
- 20 — **Recovering from Failure: What can Organisations do to Repair Trust?**
Trust is crucial for organisational effectiveness, but how can companies respond if they violate stakeholder trust?
- 22 — **Emotional (over) Trust in AI**
Emotional-based trust in AI can easily become a problematic over-trust.
- 24 — **Trusting a Centre Model**
Trust is hard to earn, yet easy to lose. How can organisations rebuild trust?
- 26 — **A-Z of Trust**
Your guide to the multi-faceted nature of trust.



CSR #15 Trauma



Trauma is pervasive. Perhaps 70% of us have experienced a traumatic event; this includes those who become involved in terrorism and political violence. The relationships between trauma and terrorism are complex and there is no straightforward causal link between the two. However, trauma's prevalence means most of us will encounter its impact, including those who engage with violent extremists. This issue of CREST Security Review brings together articles that reflect on trauma's role in terrorism and political violence.

CONTENTS

3 — From the Editor

TRAUMA

- 4 — **Trauma and Violent Extremism: Implications for interventions**
An overview of the articles focusing on our special topic of trauma.
- 8 — **Moving away from 'Trauma' towards 'Trauma and..'**
Exploring the relationship between trauma and violent extremism and what it means for research and practice.
- 12 — **What to do about mental health in PVE: Insights from Central Asia**
The challenges of placing and scaling psychosocial support efforts in the prevention of violent extremism (PVE).
- 16 — **Police violence and child trauma in the Brazilian Favelas**
The impact policing practices and state-mediated violence has on mental health and child trauma.
- 18 — **Working with victims of torture**
Advice to practitioners on what they should hold in mind when working with victims.
- 22 — **Finding the story: expanding the tale**
The journey into and out of extremism.
- 26 — **Trauma-informed policing**
Police officers' perceptions of trauma-informed practice interventions.
- 28 — **"I have never hurt anybody"**
How do we responsibly navigate the complex relationship between mental illness, adversity, and violent extremism?
- 32 — **What can we learn from exploring the traumatised past of returnees?**
What happened in Central Asia, and what can the rest of the world learn from it?
- 34 — **The radicalisation pendulum: Introducing a trauma-based model of violent extremist radicalisation**
Understanding the dysfunctional relationship between the problem and the solutions.
- 36 — **Trauma, extremism & criminology**
Based on extensive life history research with former far-right extremists.
- 38 — **Prison Safety & Security: Exploring the impact of trauma-informed practice and trauma-responsive interventions**
Examining the state of prison safety and security across England and Wales.
- 42 — **Collective victimhood and the trauma of political violence**
Understanding how victimhood is experienced and politicised and mobilised post-conflict.
- 44 — **Trauma-informed care and violent extremism prevention**
Introducing the 5Rs framework.
- 48 — **Proximity-based evidence disclosure: Enhancing evidence reliability**
How evidence disclosure can assist the broader investigation.
- 50 — **Extremist Foreign Fighters in Ukraine**
Has Ukraine become a new laboratory for the global far right?
- 52 — **Read more**
Find out more about the research in this issue.



CSR #16 Innovation



From machine-learning to the metaverse; innovation enhances our opportunities to plan, counter, and respond to security threats in new ways. But we cannot ignore the problems that can arise from emerging technologies. Through a behavioural and social science lens, this issue of CREST Security Review brings together articles that highlight how innovation can, not only bring new opportunities, but increase risk too.

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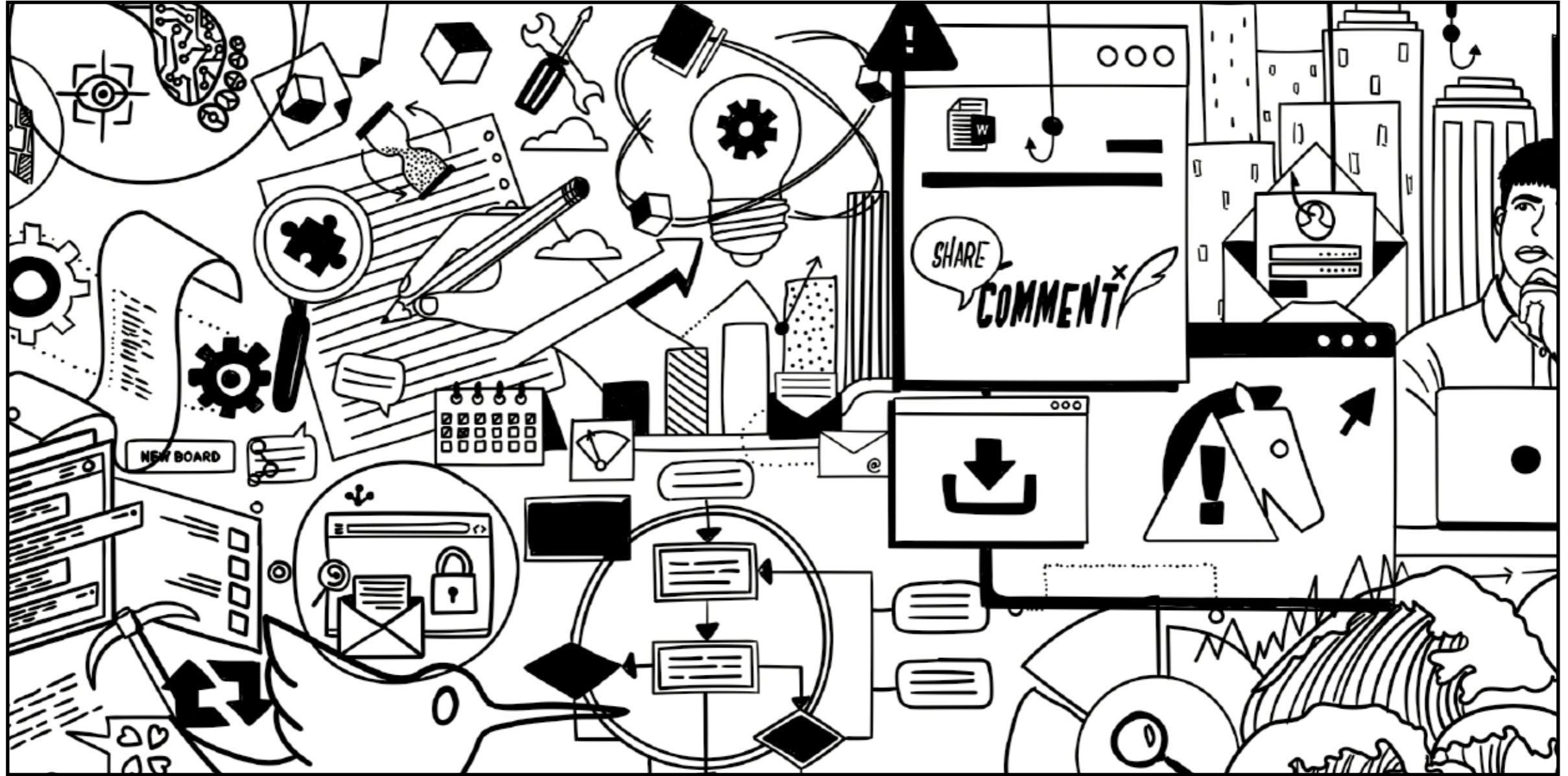
- 3 — From the Editor
- 26 — **Extreme right-wing terrorism**
This timeline is intended to give some insight into the extent of offending in the UK within the last 13 years.
- 30 — **A communication perspective on resilience**
An important framework for understanding resilience.
- 32 — **The 'incelosphere' and incel violence: A worsening problem?**
How has violent extremist language evolved across time in various platforms in the incel online ecosystem?
- 36 — **Misogyny and masculinity: Toward a typology of gendered narratives amongst the far-right**
Navigating the misogynistic discourses and gendered narratives prevalent amongst far-right groups in both the UK and Australia.
- 38 — **When the uniform doesn't fit**
A look at social, physical health, mental health, and safety repercussions of the unisex police uniform.
- 42 — **Read more**
Find out more about the research we've featured in this issue.

INNOVATION

- 4 — **Rolling the dice on algorithms: Increasing understanding through boardgames**
An interactive approach to algorithm design and analysis, using boardgames
- 8 — **Violent extremism, innovation, and recruitment in the metaverse**
Exploring the interplay between trust building, emerging technologies, and innovation.
- 10 — **The disinformation game: Finding new ways to fight 'fake news'**
What innovating new effective ways can be used to tackle 'fake news' in the media?
- 12 — **AI innovation risks and implications**
With the rise in popularity of ChatGPT, what are the risks and implications of using this kind of technology?
- 14 — **AI and extremism: The threat of language models for propaganda purposes**
Exploring the dangers of AI and extremism.
- 18 — **Are emerging digital behavioural biometrics able to identify us?**
Understanding the current state of play in emerging behavioural biometrics.
- 20 — **How did you escape? A rapport-based framework for time-critical questioning involving cooperative interviewees**
How to obtain vital information in a time-critical manner, using an innovative methodology.
- 22 — **What's new, what works? Countering terrorism with public-facing strategic communication campaigns**
How can we communicate more effectively with the public about counter-terrorism?
- 24 — **Is 'government' and 'innovation' an oxymoron? Public sector innovation: A practitioner's perspective**
Communication is key when it comes to helping research and evidence better inform public sector policy.



RESOURCES BY PROJECT



OVERVIEW

CREST has a large and growing number of projects focused on providing evidence-based solutions to problems faced by those on the front-line in mitigating and preventing security threats. In this section we list the variety of outputs produced by each project. These are added to continuously, even by projects where funding has now finished, as peer-reviewed articles are published, follow-up studies conducted, and research translated into toolkits, guides and briefs for direct application.

If you'd find it useful to have some of this research summarised and translated for use in your area of work, please get in touch. Likewise, if you're a researcher who thinks we've missed some of the relevant work out, let us know and we'll make sure it is added to the list!

ACTORS AND IDEOLOGIES IN SOCIAL CONTEXT

PI: KIM KNOTT

This project improved our understanding of where and how beliefs and values, including from extremist ideologies, are transmitted and learned and why and how people engage and disengage from terrorist violence.

JOURNALS

Copeland, S. (2019). Telling stories of terrorism: A framework for applying narrative approaches to the study of militant's self-accounts. *Behavioral Sciences of Terrorism and Political Aggression*, 11(3), 232–253. <https://doi.org/10.1080/19434472.2018.1525417>

Knott, K. (2018). Applying the study of religions in the security domain: Knowledge, skills, and collaboration. *Journal of Religious and Political Practice*, 4(3), 354–373. <https://doi.org/10.1080/20566093.2018.1525901>

Knott, K., & Lee, B. J. (2020). Ideological Transmission in Extremist Contexts: Towards a Framework of How Ideas Are Shared. *Politics, Religion & Ideology*, 21(1), 1–23. <https://doi.org/10.1080/21567689.2020.1732938>

Knott, K., & Lefebvre, S. (2016). Tips for Connecting Your Research with the Media. *Bulletin for the Study of Religion*, 45(1), 32–34. <https://doi.org/10.1558/bsor.v45i1.29999>

Lee, B. (2020). Countering Violent Extremism Online: The Experiences of Informal Counter Messaging Actors. *Policy & Internet*, 12(1), 66–87. <https://doi.org/10.1002/poi.3.210>

Lee, B. J. (2017). 'It's not paranoia when they are really out to get you': The role of conspiracy theories in the context of heightened security. *Behavioral Sciences of Terrorism and Political Aggression*, 9(1), 4–20. <https://doi.org/10.1080/19434472.2016.1236143>

Lee, B. J. (2019). Informal Countermessaging: The Potential and Perils of Informal Online Countermessaging. *Studies in Conflict & Terrorism*, 42(1–2), 161–177. <https://doi.org/10.1080/1057610X.2018.1513697>

Lee, B., & Knott, K. (2021). Fascist aspirants: Fascist Forge and ideological learning in the extreme-right online milieu. *Behavioral Sciences of Terrorism and Political Aggression*, 1–25. <https://doi.org/10.1080/19434472.2020.1850842>

Logan, C., & Lloyd, M. (2019). Violent extremism: A comparison of approaches to assessing and managing risk. *Legal and Criminological Psychology*, 24(1), 141–161. <https://doi.org/10.1111/lcrp.12140>

Marsden, S. (n.d.). Examining Terrorism's Persistence: A Relational Approach. *Contemporary Voices: The St Andrews Journal of International Relations*. Retrieved 30 September 2021, from [https://risweb.st-andrews.ac.uk/portal/en/researchoutput/examining-terrorisms-persistence-a-relational-approach\(04deacf4-40b9-41bc-ae43-6dd301a5d0b4\).html](https://risweb.st-andrews.ac.uk/portal/en/researchoutput/examining-terrorisms-persistence-a-relational-approach(04deacf4-40b9-41bc-ae43-6dd301a5d0b4).html)


Marsden, S. (2020). Radicalization: Trajectories in Research, Policy and Practice. *International Journal of Conflict and Violence (IJCV)*, 14, 1–6. <https://doi.org/10.4119/ijcv-3811>

Moore, C. (2018). Russia. In *Routledge Handbook Of Terrorism And Counterterrorism* (1st ed., p. 12). Routledge. <https://www.taylorfrancis.com/chapters/edit/10.4324/9781315744636-53/russia-cerwyn-moore>

Morrow, E. A., & Meadowcroft, J. (2019). The Rise and Fall of the English Defence League: Self-Governance, Marginal Members and the Far Right. *Political Studies*, 67(3), 539–556. <https://doi.org/10.1177/0032321718777907>

Lloyd, M., & Dean, C. (2015). The development of structured guidelines for assessing risk in extremist offenders. *Journal of Threat Assessment and Management*, 2(1), 40–52. <https://doi.org/10.1037/tam0000035>

GUIDES

A Short Guide To Narratives Of The Far-Right -  - 10, 40
Countering Violent Extremism: A Guide To Good Practice - 10, 40

British Muslims: A History - 13

British Muslims: Charities And Organisations - 13

British Muslims: Demography & Communities - 13

British Muslims: Families - 13

British Muslims: Gender & Generations - 13

British Muslims: Mosques - 13

British Muslims: Sectarian Movements - 13

Deradicalisation Programmes: Introductory Guide - 10

How And Why Ideologies Are Shared And Learned - 9

Islam: Conversion - 8


Islam: The Five Pillars - 8


The Counter Jihad Movement - 8

Understanding The Far-Right Landscape - 11

ARTICLES

Affect And Emotion In Extremist Discourse - 

Are Converts To Islam More Likely To Become Extremists? - 


From Ideological Material To Targeting Choice In Leaderless Jihadist - 


Grassroots Counter Messaging In The UK - 


How Does The Family Pass On Religion? - 50

How Do Teachers Engage With Prevent? - 

MindMap: Ideological Transmission - 50

One Peaceful March Doesn't Change Pegida's Disturbing Ideology - 

Paris Attacks: There Is No Simple Explanation -  - 58
Reintegrating Extremists: 'Deradicalisation' And Desistance - 58

Research Drives Understanding And Disruption Of Terrorism - 

Terrorists' Use Of Messaging Applications - 48

The Importance Of Terrorists' Families And Friends - 

The Role Of Gender In Violent Extremism - 

Transmitting Terrorism: A Family Affair? - 50

Understanding The Counter-Jihad - 

Understanding The Roles Women Play In Violence Extremism And Why It Matters - 64

What Are The Five Pillars Of Islam? - 8

What's The Difference Between Sunni And Shi'a Muslims? - 8

Why Transmission? - 50

REPORTS

Extremism Risk Assessment: A Directory - 30

Ideological Transmission: Families - 11

Ideological Transmission: Peers, Education, And Prisons - 11

Ideological Transmission: Political And Religious Organisations - 11

Muslims And Islam In The UK - 13

Reciprocal Radicalisation - 10


PROJECT PAGE: <https://crestresearch.ac.uk/projects/ideas-beliefs-values/>


ACTORS AND NARRATIVES


PI: CERWYN MOORE

This project examined the narratives of people who get involved in, and disengage from, terrorism.


ARTICLES

After St Petersburg: Russia And The Threat From Central Asian Terror Networks - 

Lessons From The Decline Of The North Caucasus Insurgency - 

Loyal Footsoldiers: The Attractions Of EDL Activism - 

Remainers And Leavers: Foreign Fighters After The 'Islamic State' - 52

Russia's Domestic Terrorism Threat Is Serious, Sophisticated, And Complex - 

Transnational Activism Through The Ages - 52

REPORTS

After Islamic State: Workshop Reports 1-4 - 9

Russia And Disinformation: Institutions And Actors - 12, 33

Russia And Disinformation: Maskirovka - 12, 33

Russia And Disinformation: The Case Of The Caucasus - 12, 33

PROJECTS

Russia And Disinformation: The Case Of Ukraine - 12, 33

'Russian-Speaking' Fighters In Syria, Iraq, And At Home: Consequences And Context - 12

BRIEFS

'Russian-Speaking' Fighters In Syria, Iraq, And At Home - 12

PROJECT PAGE: <https://crestresearch.ac.uk/projects/actors-and-narratives/>

AN EXPLORATORY STUDY Of Expertise And Inertia In Emergency Service Responses In A Counter-Terrorism Live Exercise

PI: LAURENCE ALISON

This project examined police and emergency service response during a counter-terrorism live exercise, with a specific focus on expertise, team decision making, and decision command-level inertia.

GUIDES

Considerations For Training Development - 30

Factors That Affect Command Decision-Making - 35

ARTICLES

Persuasion And Influence Or Genuine Connection And Rapport - 🌐

Communicating With Casualties In Emergencies - 🌐

Building Good Rapport In Interviews - 🌐

PROJECT PAGE: <https://crestresearch.ac.uk/projects/expertise-and-inertia/>

BEHAVIOURAL ANALYTICS

PI: PAUL TAYLOR

This project looks at whether organised crime can be prevented by predicting people's characteristics, networks, and intentions from the way they have previously behaved?

JOURNALS

Prentice, S., & Taylor, P. J. (2019). Psychological and Behavioral Examinations of Online Terrorism [Chapter]. *Violent Extremism: Breakthroughs in Research and Practice*; IGI Global. <https://doi.org/10.4018/978-1-5225-7119-3.ch024>

Taylor, P. J., Holbrook, D., & Joinson, A. (2017). Same Kind of Different: Affordances, Terrorism, and the Internet. *Criminology & Public Policy*, 16(1), 127–133. <https://doi.org/10.1111/1745-9133.12285>

Carrick, T., Rashid, A., & Taylor, P. J. (2016). Mimicry in online conversations: An exploratory study of linguistic analysis techniques. *Advances in Social Networks Analysis and Mining (ASONAM) : 2016 IEEE/ACM International Conference On*, 732–736. <https://doi.org/10.1109/ASONAM.2016.7752318>

Charitonidis, C., Rashid, A., & Taylor, P. J. (2017). Predicting Collective Action from Micro-Blog Data. In J. Kawash, N. Agarwal, & T. Özyer (Eds.), *Prediction and Inference from Social Networks and Social Media* (pp. 141–170). Springer International Publishing. https://doi.org/10.1007/978-3-319-51049-1_7

Taylor, P. J., & Donohue, W. A. (2017). Lessons from the extreme: What business negotiators can learn from hostage negotiations. *The Negotiator's Desk Reference*. <https://research.utwente.nl/en/publications/lessons-from-the-extreme-what-business-negotiators-can-learn-from>

Taylor, P. J., Larner, S., Conchie, S. M., & Menacere, T. (2017). Culture moderates changes in linguistic self-presentation and detail provision when deceiving others. *Royal Society Open Science*, 4(6), 170128. <https://doi.org/10.1098/rsos.170128>

Zee, S. van der, Poppe, R., Taylor, P. J., & Anderson, R. (2019). To freeze or not to freeze: A culture-sensitive motion capture approach to detecting deceit. *PLOS ONE*, 14(4), e0215000. <https://doi.org/10.1371/journal.pone.0215000>

ARTICLES

7 Things Worth Knowing About Groups - 🌐

Apple Or Android? What Your Choice Of

Operating System Says About You - 🌐

Communicating Across Cultures - 58

From Data To Datum: What Should I Do In This Case? - 62

The A–Z Of Information Elicitation - 46

The Future Of Wearable Technology - 🌐

The Promise Of Social Science - 🌐

PROJECT PAGE: <https://crestresearch.ac.uk/projects/behavioural-analytics/>

BEST PRACTICES FOR DISRUPTION AND MEASURES OF EFFECT

PI: STACEY CONCHIE

This project aims to develop novel, precise, and ethical ways to measure operational outcomes.

RESOURCES

Outputs and publications from this project coming soon.

JOURNALS

Shaw, H., Taylor, P., Conchie, S., & David Alexander Ellis, D. (2019). Language Style Matching: A Comprehensive List of Articles and Tools. <https://doi.org/10.31234/osf.io/yz4br>

Shaw, H., Taylor, P. J., Ellis, D. A., & Conchie, S. M. (2022). Behavioral Consistency in the Digital Age. *Psychological Science*, 33(3), 364–370. <https://doi.org/10.1177/09567976211040491>

CLICKA

Collecting And Leveraging Identity Cues With Keystroke Analysis

PI: OLI BUCKLEY

This project examines keynote dynamics, which is the study and analysis of an individual's typing behaviours. These typing patterns can be as uniquely identifying as a user's signature or handwriting and as such can be used to confirm the identity of an individual.

ARTICLES

CLICKA - 23

A To Z Of Data - 62

REPORTS

Collecting And Leveraging Identity Cues With Keystroke Analysis (CLICKA) - 23

JOURNALS

Buckley, O., Hodges, D., Windle, J., Earl, S. (2022) CLICKA: Collecting and leveraging identity cues with keystroke dynamics, *Computers & Security*, Volume 120, <https://doi.org/10.1016/j.cose.2022.102780>

PROJECT PAGE: <https://crestresearch.ac.uk/projects/clicka/>

COMMUNITY REPORTING

Of Violent Extremist Activity And Involvement In Foreign Conflict

PI: PAUL THOMAS, MICHELE GROSSMAN

This project examined the dynamics and barriers to community reporting in the UK.

JOURNALS

Thomas, P., Grossman, M., Christmann, K., & Miah, S. (2020). Community reporting on violent extremism by 'intimates': Emergent findings from international evidence. *Critical Studies on Terrorism*, 13(4), 638–659. <https://doi.org/10.1080/17539153.2020.1791389>

ARTICLES

Community Reporting On Terrorism: Bystanders Versus Social Intimates - 🌐

Community Reporting Of Terrorist Involvement During Covid-19 - 68

What Are The Barriers To Reporting People Suspected Of Violent Extremism?

Community Reporting: The Key To Defeating Terrorism? - 54

Manchester Attack: An 'Arms Race' Against Ever Adapting Terror Networks - 🌐

REPORTS

Community Reporting Thresholds - 21, 40

PROJECT PAGE: <https://crestresearch.ac.uk/projects/reporting-violent-extremism/>

CON.CEL:

Tracking The Online Contagion Of InCel And Male Supremacist Ideology


PI: LEWYS BRACE

This project focused on InCel ideology – a misogynistic worldview whose proponents blame women for their lack of sexual activity, to map out the online ‘InCelosphere’ and tracks its dynamics of contagion.

JOURNALS

Baele, S., Brace, L., & Ging, D. (2023). A Diachronic Cross-Platforms Analysis of Violent Extremist Language in the Incel Online Ecosystem, Terrorism and Political Violence. <https://doi.org/10.1080/09546553.2022.2161373>

ARTICLES

A Short Introduction To The Involuntary Celibate Sub-Culture - 

A data-driven analysis of incelosphere engagement by UK-based users - 15

REPORTS

Incels and the Incelosphere: An Overview of Current Research and Understanding - 15

BRIEFS

How worried should we be about incel-related violence? - 15

PROJECT PAGE: <https://crestresearch.ac.uk/projects/tracking-online-contagion-incel/>

CONSPIRACY THEORIES AND EXTREMISM

PI: PAUL GILL, BETTINA ROTTWEILER

This project examines the types of conspiracy theories that are most closely aligned with violent intentions (e.g., belief in QAnon vs. flat-earth) as well as articulating the relevance of conspiracy and extremist beliefs to one another.

Resources and journals for this project will be available soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/conspiracy-theories-and-extremism/>

CONSTRAINING VIOLENCE

PI: SARAH MARSDEN

This project examines the individual and social level protective factors and subcultural constraints to identify when and why violence fails to emerge from extremist contexts.

GUIDES

Siege Culture - 14

Protective Factors: Theory and Evidence - 27

REPORTS

Protective Factors for Violent Extremism and Terrorism: Rapid Evidence Assessment - 27

Conceptualising Protective Factors: Strengths-based Approaches - 29

Protective Factors Supplement Report - 27

Lethal Subcultures - 14, 26

POSTERS

Evidence Map: Protective Factors for Violent Extremism and Terrorism - 27

PROJECT PAGE: <https://crestresearch.ac.uk/projects/constraining-violence/>

COUNTER-PRODUCTIVE WORK BEHAVIOUR

Assessing And Mitigating The Impact Of Organisational Change On CWB

PI: ROSALIND SEARLE

This project builds on existing evidence to produce the first (dis)trust-based framework for predicting, identifying, and mitigating counterproductive working behaviours and insider threat within an organisational change context.

JOURNALS

Rice, C., & Searle, R. H. (2022). ‘The Enabling Role of Internal Organizational Communication in Insider Threat Activity – Evidence From a High Security Organization.’ Management Communication Quarterly. <https://doi.org/10.1177/08933189211062250>

GUIDES

Animation: Positively Influencing Individuals During Organisational Change - 27, 39

A Manager’s Guide to Organisational Change - 27, 39

Managing Organisational Change: Practitioner Toolkit - 27, 39

Managing Organisational Change: Organisational Culture Toolkit - 27, 39

Managing Organisational Change: Individuals Toolkit - 27, 39

Managing Organisational Change: Leaders Toolkit - 27, 39

Managing Organisational Change: Team Relations Toolkit - 27, 39


Video: Managing Organisational Change - 27, 39

Managing Organisational Change: Using The CWB Toolkits - 27, 39

ARTICLES

Positively Influencing Individuals During Organisational Change - 27, 39

How Messing With Employee Pensions Can Backfire On Companies - 

Trust And Insider Threat: Ensuring We Don’t Look Back – Or Forward – In Anger - 

Trust And Citizenship: The Insider Threat - 

REPORTS

Managing Organisational Change - 27, 39

PROJECT PAGE: <https://crestresearch.ac.uk/projects/counterproductive-work-behaviour/>

COUNTERING VIOLENT EXTREMISM: Methods, Processes And Outcomes

PI: KIM KNOTT

This project identified what we know about how to prevent and counter violent extremist (CVE) through a narrative synthesis of CVE programmes delivered in the UK and Internationally.

GUIDES

Countering Violent Extremism: A Guide To Good Practice - 10, 38

Countering Violent Extremism: An Introduction - 10, 38

REPORTS

Women And Preventing And Countering Violent Extremism Interventions - 30, 39

Countering Violent Extremism Interventions: Contemporary Research - 31, 38

PROJECT PAGE: <https://crestresearch.ac.uk/projects/evaluating-countering-violent-extremism/>

DETECTING HYBRID SOCIAL IDENTITIES

A Computational Analysis Of Influence And Resilience In Online RWE Communities

PI: ANASTASIA KORDONI

The project aims to provide evidence-based guidelines on the identity dynamics and types of norms that are effective in building influence within hybrid Right-Wing Extremist online communities as well as the dynamics that weaken influence.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/detecting-hybrid-social-identities/>

DEVELOPING BEST PRACTICES For Online Elicitation

PI: LORRAINE HOPE

This project aims to identify the best elicitation techniques for use online, with a focus on building rapport and communication strategies.

JOURNALS

Gabbert, F., Hope, L., Horry, R., Drain, T., Hughes, C. (2022). Examining the efficacy of a digital version of the Self-Administered Interview, *Computers in Human Behavior Reports*, Volume 5, <https://doi.org/10.1016/j.chbr.2021.100159>

PROJECT PAGE: <https://crestresearch.ac.uk/projects/developing-best-practices-for-online-elicitation/>

DEVELOPMENT OF RISK ASSESSMENT SCHEMES FOR CHANNEL

PI: PAUL GILL AND ZOE MARCHMENT

This project will develop a prototype risk assessment scheme for individuals referred to Channel through the refinement of existing guidance and the production of a new process.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/risk-assessment-schemes-for-channel/>

DIFFERENCES IN THE ABILITY TO SPOT RARE, NON-SALIENT OR HIDDEN TARGETS

PI: NICK DONNELLY

This project reviewed the literature on individual differences in the ability to detect rare, hidden, or non-salient targets, and conducted a reanalysis of existing data to pull out the impact of individual differences.

GUIDES

What Makes Spotting Faces Difficult? - 21

Finding Hidden Targets - 21

Individual Differences In Ability To Search - 21

Detecting Rare Targets - 21

How Training And Professional Experience Affect The Ability To Spot Targets - 21

ARTICLES

Just Another Face In The Crowd – What Makes Spotting Unfamiliar Faces Difficult? - 50

PROJECT PAGE: <https://crestresearch.ac.uk/projects/spotting-hidden-targets/>


DISENGAGEMENT AND DESISTANCE:

A Systematic Review

PI: JOHN F. MORRISON

This project evaluated the disengagement and desistance literature from January 1 2017 to February 1 2020.

ARTICLES

The Role Of (Dis)Trust In Disengagement And Deradicalisation - 

REPORTS

A Systematic Review Of Post-2017 Research On Disengagement And Deradicalisation - 13, 39

PROJECT PAGE: <https://crestresearch.ac.uk/projects/disengagement-and-desistance>

ELICITING INFORMATION

PI: ALDERT VRIJ

This project identifies how social and cognitive processes contribute to promoting complete recall and accurate deception detection.

JOURNALS

Davidson B. I., Shaw, H., Ellis, D. A., (2022). Fuzzy constructs in technology usage scales, *Computers in Human Behavior*, Volume 133, <https://doi.org/10.1016/j.chb.2022.107206>

Deeb, H., Vrij, A., Leal, S., Verigin, B. L., & Kleinman, S. M. (2020). When and how are lies told? And the role of culture and intentions in intelligence-gathering interviews. *Legal and Criminological Psychology*, 25(2), 257–277. <https://doi.org/10.1111/lcrp.12171>

Griffiths, A., & Milne, R. (Eds.). (2018). *The Psychology of Criminal Investigation: From Theory to Practice* (1st ed.). Routledge. <https://doi.org/10.4324/9781315637211>

Harvey, A., Vrij, A., Leal, S., Sarikatas, G., & Nahari, G. (2017). Extending the Verifiability Approach framework: Examining the effect of preliminary questioning on the VA procedure. Submitted to *Applied Cognitive Psychology*, 32, 787–804. <https://doi.org/10.1002/acp.3465>

Harvey, A. C., Vrij, A., Sarikatas, G., Leal, S., Jupe, L., & Nahari, G. (2018). Extending the verifiability approach framework: The effect of initial questioning. *Applied Cognitive Psychology*, 32(6), 787–804. <https://doi.org/10.1002/acp.3465>

Hope, L., & Gabbert, F. (2019). Memory at the Sharp End: The Costs of Remembering With Others in Forensic Contexts. *Topics in Cognitive Science*, 11(4), 609–626. <https://doi.org/10.1111/tops.12357>

Hope, L., Blocksidge, D., Gabbert, F., Sauer, J. D., Lewinski, W., Mirashi, A., & Atuk, E. (2016). Memory and the operational witness: Police officer recall of firearms encounters as a function of active response role. *Law and Human Behavior*, 40(1), 23–35. <https://doi.org/10.1037/lhb0000159>

Hope, L., Gabbert, F., Kinninger, M., Kontogianni, F., Bracey, A., & Hanger, A. (2019). Who said what and when? A timeline approach to eliciting information and intelligence about conversations, plots, and plans. *Law and Human Behavior*, 43(3), 263–277. <https://doi.org/10.1037/lhb0000329>

Hope, L., Kontogianni, F., Geyer, K., & Thomas, W. (2019). Development of the Reporting Information about Networks and Groups (RING) task: A method for eliciting information from memory about associates, groups, and networks. *Journal of Forensic Practice*, 21(4), 240–247. <https://doi.org/10.1108/JFP-04-2019-0011>

Jupe, L. M., Vrij, A., Leal, S., & Nahari, G. (2020). Fading lies: Applying the verifiability approach after a period of delay. *Psychology, Crime & Law*, 26(4), 327–342. <https://doi.org/10.1080/1068316X.2019.1669594>

Kontogianni, F., Hope, L., Taylor, P. J., Vrij, A., & Gabbert, F. (2018). The Benefits of a Self-Generated Cue Mnemonic for Timeline Interviewing. *Journal of Applied Research in Memory and Cognition*, 7(3), 454–461. <https://doi.org/10.1016/j.jarmac.2018.03.006>

Kontogianni, F., Hope, L., Taylor, P. J., Vrij, A., & Gabbert, F. (2020). “Tell me more about this...”: An examination of the efficacy of follow-up open questions following an initial account. *Applied Cognitive Psychology*, 34(5), 972–983. <https://doi.org/10.1002/acp.3675>

Kontogianni, F., Rubinova, E., Hope, L., Taylor, P. J., Vrij, A., & Gabbert, F. (2021). Facilitating recall and particularisation of repeated events in adults using a multi-method interviewing format. *Memory*, 29(4), 471–485. <https://doi.org/10.1080/09658211.2021.1903508>

Leal, S., Vrij, A., Deeb, H., & Jupe, L. (2018). Using the Model Statement to Elicit Verbal Differences Between Truth Tellers and Liars: The Benefit of Examining Core and Peripheral Details. *Journal of Applied Research in Memory and Cognition*, 7(4), 610–617. <https://doi.org/10.1016/j.jarmac.2018.07.001>

Leal, S., Vrij, A., Deeb, H., & Kamermans, K. (2019). Encouraging interviewees to say more and deception: The ghostwriter method. *Legal and Criminological Psychology*, 24(2), 273–287. <https://doi.org/10.1111/lcrp.12152>

Leal, S., Vrij, A., Deeb, H., Hudson, C., Capuozzo, P., & Fisher, R. P. (2020). Verbal cues to deceit when lying through omitting information. *Legal and Criminological Psychology*, 25(2), 278–294. <https://doi.org/10.1111/lcrp.12180>

Leal, S., Vrij, A., Vernham, Z., Dalton, G., Jupe, L., Harvey, A., & Nahari, G. (2018). Cross-cultural verbal deception. *Legal and Criminological Psychology*, 23(2), 192–213. <https://doi.org/10.1111/lcrp.12131>

Leal, S., Vrij, A., Vernham, Z., Dalton, G., Jupe, L. M., Nahari, G., & Rozmann, N. (2019). Using the model statement to elicit verbal differences between truth tellers and liars amongst Arab interviewees: A partial replication of Leal, Vrij, Deeb, and Jupe (2018). *Applied Cognitive Psychology*, 33(6), 1008–1017. <https://doi.org/10.1002/acp.3536>

Mann, S., Deeb, H., Vrij, A., Hope, L., & Pontigia, L. (2020). Detecting smugglers: Identifying strategies and behaviours in individuals in possession of illicit objects. *Applied Cognitive Psychology*, 34(2), 372–386. <https://doi.org/10.1002/acp.3622>

Millen, A. E., Hope, L., Hillstrom, A. P., & Vrij, A. (2017). Tracking the truth: The effect of face familiarity on eye fixations during deception. *Quarterly Journal of Experimental Psychology* (2006), 70(5), 930–943. <https://doi.org/10.1080/17470218.2016.1172093>

Milne, R., & Smith, K. (2017). Vulnerable Witnesses: The Investigation Stage. In *Vulnerable People and the Criminal Justice System: A Guide to Law and Practice*. Oxford University Press. <https://www.wildy.com/isbn/9780198801115/vulnerable-people-and-the-criminal-justice-system-a-guide-to-law-and-practice-paperback-oxford-university-press>

Nahari, G., Ashkenazi, T., Fisher, R. P., Granhag, P., Hershkowitz, I., Masip, J., Meijer, E. H., Nisin, Z., Sarid, N., Taylor, P. J., Verschuere, B., & Vrij, A. (2019). 'Language of lies': Urgent issues and prospects in verbal lie detection research. *Legal and Criminological Psychology*, 24(1), 1–23. <https://doi.org/10.1111/lcrp.12148>

Nunan, J., Stanier, I., Milne, R., Shawyer, A., & Walsh, D. (2020a). Eliciting human intelligence: Police source handlers' perceptions and experiences of rapport during covert human intelligence sources (CHIS) interactions. *Psychiatry, Psychology and Law*, 27(4), 511–537. <https://doi.org/10.1080/13218719.2020.1734978>

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Nunan, J., Stanier, I., Milne, R., Shawyer, A., Walsh, D., & May, B. (2020). The impact of rapport on intelligence yield: Police source handler telephone interactions with covert human intelligence sources. *Psychiatry, Psychology and Law*, 1–19. <https://doi.org/10.1080/13218719.2020.1784807>

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GUIDES

A Timeline Helps Interviewees Recall And Report Events - 20

Eliciting Information From Cooperative Sources About Single And Repeated Multi-Actor Events - 21, 22

Eliciting Information From Memory About Criminal Gangs And Terrorist Cells - 22

The verifiability technique - 20

Memory And Consistency In Eliciting Information: When Does (In)Consistency Matter? - 21, 21

The Cognitive Interview - 20

The Model Statement Technique - 20

The Unexpected Questions Technique - 20

Using Self-Generated Cues To Elicit Information - 21, 22

ARTICLES

Connecting Culture To Deception Detection - 🌐

Developing An Evidenced-Based Approach To Enhance Recall Of Intelligence - 🌐

From The Lab To Operational Response: Examining The Impact Of Stress On Memory For High Pressure Incidents - 🌐

How Does Memory Work? - 46

How Do We Measure Rapport In Interviews? - 48

Increasing Accurate Recall In Human Sources - 🌐

Memory At The Sharp End: The Psychology Of Eliciting Information - 46

Memory Recall: The Challenge Of Eliciting Reliable Information - 46

Try To See Things My Way? The Role Of Perspective Taking In Eliciting Information - 🌐

Untangling The Past: Remembering Details Of Repeated Events - 62

Lie Detectors: Body Language Tells Us Surprisingly Little About Whether Someone Is Being Honest - 🌐

POSTERS

Complete series of What Sources Mean When They Say 'I Don't Know' posters - 22

PROJECT PAGE: <https://crestresearch.ac.uk/projects/eliciting-information/>

ENVIRONMENT AND INTERVENTIONS:

Assessing The Environmental Risk Of Terrorism

PI: NOÉMIE BOUHANA

Operationalising an existing SAT (Situational Action Theory)-supported framework known as 'S5' the resulting risk assessment framework from this project seeks to aid the design and evaluation of interventions aimed at preventing radicalisation through influencing context.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/environment-and-interventions/>

ETHNO-NATIONAL, RELIGIO-CULTURAL OR ANTI-MUSLIM?

Investigating Sikh Radicalisation In Britain

PI: JASJIT SINGH

This project explored the current state of Sikh radicalisation in the UK, including an open-source evaluation of the threat and likelihood of violent Sikh extremism, and the involvement of Sikhs in far-right and anti-Muslim movements.

JOURNALS

Singh, J. (2020a). Racialisation, 'religious violence' and radicalisation: The persistence of narratives of 'Sikh extremism'. *Journal of Ethnic and Migration Studies*, 46(15), 3136–3156. <https://doi.org/10.1080/1369183X.2019.1623018>

Singh, J. (2020b). Narratives in Action: Modelling the Types and Drivers of Sikh Activism in Diaspora. *Religions*, 11(10), 539. <https://doi.org/10.3390/rel11100539>

GUIDES

Sikh Activism In Britain: Narratives And Issues - 8

ARTICLES

Religious Transmission Among Young Adults In The Digital Age - 50

Sikh Activism In Britain - 58

REPORTS

The Idea, Context, Framing, And Realities Of 'Sikh Radicalisation' In Britain - 8

PROJECT PAGE: <https://crestresearch.ac.uk/projects/sikh-radicalisation-britain/>

EVALUATING SECURITY INTERVENTIONS IN PUBLIC LOCATIONS:

Developing And Testing A Co-Created Framework For Protective Security

PI: DAVID MCILHATTON

This project will help understand unintended consequences of flawed protective security logic, and more importantly provide a framework to consider success from the earliest possible stage across the protective security spectrum (e.g., training, physical security, people and personnel, and procedural).

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/evaluating-security-interventions-in-public-locations/>

FACTORS THAT DETER THREAT ACTORS AND RECONNAISSANCE

PI: PAUL GILL

This project aims to develop our understanding of hostile actors' experiences and behaviour, including their target selection and reconnaissance, with the purpose of informing existing and new forms of deterrence.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/factors-that-deter-threat-actors-and-reconnaissance/>

'HOT PERIODS' OF ANTI-MINORITY ACTIVISM

And The Threat Of Violent Domestic Extremism: Towards An Assessment Framework

PI: JOEL BUSER

Keystroke dynamics is the study and analysis of an individual's typing behaviours. These typing patterns can be as uniquely identifying as a user's signature or handwriting and as such can be used to confirm the identity of an individual.

ARTICLES

The Escalation And Inhibition Of Violence During Waves Of Far-Right Or Anti-Minority Protests - 🌐 (also available in German).

REPORTS

The Dynamics Of Violence Escalation And Inhibition During 'Hot Periods' Of Anti-Minority And Far-Right Activism (Executive Summary also available in German translation) - 32

PROJECT PAGE: <https://crestresearch.ac.uk/projects/anti-minority-activism-violent-domestic-extremism/>

HOW DOES ISIS' ONLINE PROPAGANDA DEMONSTRATE MECHANISMS OF RADICALISATION?

PI: STEPHANE BAELE

This project identified how ISIS' online propaganda demonstrates the dynamics of radicalisation by conducting a large-scale, computer-assisted analysis of ISIS' online content.

JOURNALS

Baele, S. J., Boyd, K. A., & Coan, T. G. (2020). Lethal Images: Analyzing Extremist Visual Propaganda from ISIS and Beyond. *Journal of Global Security Studies*, 5(4), 634–657. <https://doi.org/10.1093/jogss/ogz058>

ARTICLES

Extremist Prose As Networks - 54

PROJECT PAGE: <https://crestresearch.ac.uk/projects/isis-online-propaganda/>

HUMAN ENGAGEMENT Through Artificial / Augmented Intelligence

PI: CHRIS BABER

'Augmented intelligence' uses Artificial Intelligence / Machine Learning (AI / ML) to extend human cognitive ability. An experienced analyst plus augmented intelligence ought to produce a performance that is superior to either entity alone. The capabilities of the AI / ML for exploring vast data resources and discovering patterns exceeds that of the human, whereas the human's expertise will allow insight into unusual or unfamiliar patterns. Thus, there is a need to ensure collaboration in pursuit of sense-making.

GUIDES

AI And System Developers - 23

AI And Senior Managers - 23

ARTICLES

Why AI Systems Need To Explain Themselves - 70

REPORTS

Understanding The Problem Of Explanation When Using AI In Intelligence Analysis - 23

PROJECT PAGE: <https://crestresearch.ac.uk/projects/human-engagement-through-ai/>

IMAGINATIVE SCENARIO PLANNING For Law Enforcement Organisations

PI: MATH NOORTMANN, JULIETTE KONING

This project investigated scenario planning for future security threats by engaging with law organisations in the Netherlands and the UK.

GUIDES

Imaginative Scenario Planning Toolkit - 28, 39

REPORTS

Imaginative Scenario Planning - 28, 39

PROJECT PAGE: <https://crestresearch.ac.uk/projects/imaginative-scenario-planning/>


INDIVIDUAL DIFFERENCES In The Adoption, Secure Use, And Exploitation Of Smart Home Technology


PI: EMMA WILLIAMS

This project used home-based IoT technology and cyber-enabled crime as a basis to explore the relationship between individual differences in the adoption and use of new technology, and the exploitation of such technologies for nefarious purposes.

ARTICLES

If This Then...What? Security And Privacy In Trigger-Action Systems - 66

What Influences Consumer Adoption And Secure Use Of Smart Home Technology? - 

Mapping Smart Home Vulnerabilities To Cyber-Enabled Crime - 

REPORTS

Individual Differences In The Adoption, Secure Use, And Exploitation Of Smart Home Technology - 31

PROJECT PAGE: <https://crestresearch.ac.uk/projects/adoption-and-exploitation-of-smart-home-technology/>

INOCULATING AGAINST THE SPREAD

Of Islamophobic And Extremist Islamist Disinformation

PI: STEPHAN LEWANDOWSKY

This project examined the efficacy of inoculation against misinformation.

REPORTS

Inoculating Against The Spread Of Islamophobic And Radical-Islamist Disinformation - 38

PROJECT PAGE: <https://crestresearch.ac.uk/projects/inoculating-islamophobic-extremist-islamist-disinformation/>

KEEPING SECRETS ONLINE

PI: WENDY MONCUR

This project drew together a wealth of research into how people keep secrets online, what helps them to keep those secrets, what acts as barriers, and how these vary based on age, gender, and culture.

JOURNALS

Grimani, A., Gavine, A., & Moncur, W. (2020a). An evidence synthesis of strategies, enablers and barriers for keeping secrets online regarding the procurement and supply of illicit drugs. *International Journal of Drug Policy*, 75, 102621. <https://doi.org/10.1016/j.drugpo.2019.102621>

Grimani, A., Gavine, A., & Moncur, W. (2020b). An Evidence Synthesis of Covert Online Strategies Regarding Intimate Partner Violence. *Trauma, Violence, & Abuse*. <https://doi.org/10.1177/1524838020957985>

Grimani, A., Gavine, A., & Moncur, W. (2022). An Evidence Synthesis of Covert Online Strategies Regarding Intimate Partner Violence. *Trauma, Violence, & Abuse*, 23(2), 581–593. <https://doi.org/10.1177/1524838020957985>

PROJECT PAGE: <https://crestresearch.ac.uk/projects/keeping-secrets-online/>

KNOWLEDGE MANAGEMENT Across The Four Counter-Terrorism 'Ps'

PI: SARAH MARSDEN

This project presented a series of nine reports exploring priority areas of policy and practice that fall within the four pillars of CONTEST (Pursue, Prevent, Protect, Prepare).

REPORTS

Public Experiences Of The UK Counter-Terrorism System - 38

Terrorism-Related Simulations - 34

Evaluating Programmes To Prevent And Counter Extremism - 34

The Relationship Between Mental Health Problems And Terrorism - 34

Behavioural-Focused Protective Security Programmes - 34

Extremist Risk Assessment - 34

Economic Influences On Radicalisation - 34

Right-Wing Terrorism: Pathways And Protective Factors - 34

Managing Terrorism-Related Offenders In Prison - 34

PROJECT PAGE: <https://crestresearch.ac.uk/projects/the-four-counter-terrorism-ps>

LEARNING AND UNLEARNING TERRORISM: The Transition From Civilian Life Into Paramilitarism And Back Again During The Conflict And Peace Process In Northern Ireland

PI: NEIL FERGUSON

This project examined over 20 years of data relating to the Conflict and Peace process in Northern Ireland to draw lessons on terrorism.

JOURNALS

Ferguson, N., & McAuley, J. W. (2020a). Radicalization or Reaction: Understanding Engagement in Violent Extremism in Northern

PROJECTS

Ireland. *Political Psychology*, 41(2), 215–230. <https://doi.org/10.1111/pops.12618>

Ferguson, N., & McAuley, J. W. (2020b). Staying Engaged in Terrorism: Narrative Accounts of Sustaining Participation in Violent Extremism. *Frontiers in Psychology*, 11, 1338. <https://doi.org/10.3389/fpsyg.2020.01338>

Ferguson, N., McDaid, S., & McAuley, J. W. (2018). Social movements, structural violence, and conflict transformation in Northern Ireland: The role of loyalist paramilitaries. *Peace and Conflict: Journal of Peace Psychology*, 24(1), 19–26. <https://doi.org/10.1037/pac0000274>

GUIDES

The Violent Extremist Lifecycle: 12 Lessons From Northern Ireland - 15

ARTICLES

Understanding Engagement In Violent Extremism In Northern Ireland - 15

PROJECT PAGE: <https://crestresearch.ac.uk/projects/learning-unlearning-terrorism/>

LINGUISTIC TOOLS

To Measure Source Motivation And Intent

PI: RYAN BOYD

This project explores the identification and verbal/behavioural quantification of motives and processes involved in the disclosure of sensitive information.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/linguistic-tools-to-measure-source-motivation-and-intent/>

MICE2

Mapping And Modelling Influence Interactions Between Conspiracy Communities And Extremist Entities

PI: MARTIN INNES

This project will develop an empirically informed, conceptual model of the interactive influences between contemporary forms of

political extremism and conspiracy theories.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/mapping-influence-between-conspiracy-communities-and-extremist-entities/>

MAPPING TERRORIST EXPLOITATION

Of And Migration Between Online Communication And Content-Hosting Platforms

PI: SHIRAZ MAHER

This project explored how and why jihadist extremists use online communication and content-hosting platforms, and under what circumstances they migrate between them.

REPORTS

How Telegram Disruption Impacts Jihadist Platform Migration - 38

PROJECT PAGE: <https://crestresearch.ac.uk/projects/mapping-terrorist-exploitation>

MEMETIC IRONY AND THE PROMOTION OF VIOLENCE WITHIN CHAN CULTURES

PI: GUILLERMO SUAREZ-TANGIL

This project investigated the role of alt-right online subcultures in the promotion and escalation of real-world violence.

ARTICLES

After 8chan -

/K/ And The Visual Culture Of Weapons Boards -

REPORTS

Memetic Irony And The Promotion Of Violence Within Chan Cultures - 13

PROJECT PAGE: <https://crestresearch.ac.uk/projects/promotion-of-violence-within-chan-cultures>

MINIMAL SOCIAL EXCLUSION: A Means To Increased Information Gain In Human Intelligence Interviews?

PI: PÄR-ANDERS GRANHAG

This project addressed the challenge of increasing the willingness of interviewees and informants to share reliable information with law enforcement and security/intelligence agencies.

JOURNALS

Ask, K., Ejelöv, E., & Granhag, P. A. (2019).

Eliciting human intelligence: The effects of social exclusion and inclusion on information disclosure. *Journal of Investigative Psychology and Offender Profiling*, 16(1), 3–17. <https://doi.org/10.1002/jip.1516>

REPORTS

Masterclass In Eliciting Intelligence Information - 21

PROJECT PAGE: <https://crestresearch.ac.uk/projects/minimal-social-exclusion/>

MINING THE CHANS

Exposing The Visual And Linguistic Dynamics Of Radicalisation In Far-Right Image-Boards

PI: STEPHANE BAELE

The MineChans project sought to expose and analyse the visual and linguistic practices of two image-boards (4Chan/pol, 8Chan) that play a central role in the emergence and cementing of a new transnational far-right subculture linked to several recent instances of terrorism.

JOURNALS

Baele, S. J., Brace, L., & Coan, T. G. (2020). The 'tarrant effect': What impact did far-right attacks have on the 8chan forum? *Behavioral Sciences of Terrorism and Political Aggression*, 1–23. <https://doi.org/10.1080/19434472.2020.1862274>

GUIDES

Mining The Chans - 13

PROJECT PAGE: <https://crestresearch.ac.uk/projects/mining-the-chans/>

MISOGYNY, HOSTILE BELIEFS AND THE TRANSMISSION OF EXTREMISM:

A Comparison Of The Far-Right In The UK And Australia

PI: ALEXANDRA PHELAN

This project examines the role of online channels in amplifying gender ideology and misogyny across transnational networks.

REPORTS

Misogyny, Hostile Beliefs, and the Transmission of Extremism: A Comparison of the Far-Right in the UK and Australia - 14

GUIDES

Introductory Guide To Understanding Misogyny And The Far-Right - 14

JOURNALS

Veilleux-Lepage, Y., Phelan, A., & Lokmanoglu, A. (2022). Gendered radicalisation and 'everyday practices': An analysis of extreme right and Islamic State women-only forums. *European Journal of International Security*, 1–16. <https://doi.org/10.1017/eis.2022.32>

PROJECT PAGE: <https://crestresearch.ac.uk/projects/misogyny-hostile-beliefs-and-transmission-of-extremism/>

MODELLING ONLINE ENGAGEMENT PATTERNS TO INFER RISK

PI: ADAM JOINSON

This project explores the link between online engagement and offline action within right-wing extremism and whether it is possible to distinguish the keyboard warriors from those who pose genuine threat for offline violence.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/modelling-online-engagement-patterns-to-infer-risk/>

ONLINE EFFICACY Of Cognitive Credibility Assessment

PI: ALDERT VRIJ

This project examines the use of Cognitive Credibility Assessment techniques regarding omissions when reporting on past events and genuine/deceptive beliefs and attitudes.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/online-efficacy-of-cognitive-credibility-assessment/>

PRACTICE CONSOLIDATION AND ASSESSMENT

PI: ZAINAB AL-ATTAR

This project aims to consolidate best practice in assessing the risk of extremism in individuals.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/practice-consolidation-and-assessment/>

PROSECUTING EXTREMISTS IN THE UNITED KINGDOM:

An Exploration Of Charging, Prosecution And Sentencing Outcomes

PI: RACHEL MONAGHAN

This project will deliver a comprehensive insight into the prosecution landscape for extremist actors in the UK from charges brought, offences prosecuted, and for those extremist actors guilty of criminal offences, the sentences received using an interdisciplinary mixed method approach.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/prosecuting-extremists-in-the-united-kingdom/>

PROTECTIVE SECURITY AND RISK ASSESSMENT

PI: DEBI ASHENDEN

This project increased understanding on how we can 'patch with people' and considered security as a social practice enacted in an organisational context.

JOURNALS

Ashenden, D. (2016). Your Employees: The Front Line in Cyber Security. Your Employees: The Front Line In Cyber Security. <https://crestresearch.ac.uk/comment/employees-front-line-cyber-security/>

Ashenden, D. (2018). In their own words: Employee attitudes towards information security. Information & Computer Security, 26(3), 327–337. <https://doi.org/10.1108/ICS-04-2018-0042>

Ashenden, D., & Lawrence, D. (2016). Security Dialogues: Building Better Relationships between Security and Business. IEEE Security Privacy, 14(3), 82–87. <https://doi.org/10.1109/MSP.2016.57>

ARTICLES

Algorithmic Decision Making - 62

Converging Security - 70

Creativity And Cyber Security - 68

Data And The Social And Behavioural Sciences - 62

Employees Behaving Badly - 68

Fact Check: The Cyber Security Attack Surface - 68

Phishing Scams Are Becoming Ever More Sophisticated And Firms Are Struggling To Keep Up - 68

TalkTalk Data Breach Is A Wake Up Call For CEOs - 68

Your Employees: The Front Line In Cyber Security - 68

PROJECT PAGE: <https://crestresearch.ac.uk/projects/protective-security-risk-assessment/>

RAPPORT BUILDING:

Online Vs In-Person Interview

PI: EWOUT MEIJER

This project explored the effectiveness of conducting online witness interviews via chat compared to in-person interviews

REPORTS

Rapport Building: Online Vs In-Person Interviews - 22

PROJECT PAGE: <https://crestresearch.ac.uk/projects/rapport-building-online-vs-in-person/>

RAPPORT-BUILDING TRAINING Quantifying The Effectiveness Of An Evidence-Based Programme

PI: FIONA GABBERT, GORDON WRIGHT

This project maps the existing literature on rapport-building and uses the findings to develop an evidence-based training programme to test the extent to which individuals can be trained to better build rapport.

REPORTS

Quantifying The Effectiveness Of A Rapport-Building Training Programme - 23

PROJECT PAGE: <https://crestresearch.ac.uk/projects/evidence-based-rapport-building-training-programme/>

SPEC

Simulated Phishing And Employee Cybersecurity Behaviour

PI: JOHN BLYTHE

This project conducted two studies with differing approaches to investigate (i) how policies on simulated phishing emails are currently implemented in organisations using a cross-sectional survey and (ii) the impact of simulated phishing emails policies on employees' cyber security awareness and their perceptions of key factors (organisational trust, procedural fairness,

stress and perceived monitoring) through an experimental study.

REPORTS

Simulated Phishing And Employee Cybersecurity Behaviour (SPEC) - 38

BRIEFS

Phishing Your Staff: A Double-Edged Sword? - 38

PROJECT PAGE: <https://crestresearch.ac.uk/projects/spec/>

SITUATIONAL THREAT AND RESPONSE SIGNALS (STARS): Public-Facing Counter-Terrorism Strategic Communication Campaigns

PI: CHARIS RICE

This project establishes and elaborates a sophisticated and flexible appreciation of how and why communication campaigns designed to deter terrorism and deliver influence over public behaviour, achieve differing outcomes.

REPORTS

Public-Facing Counter-Terrorism Strategic Communication Campaigns: Using 'The STARS Framework' To Map And Respond To Some Key Challenges -

Full Report;

Key Findings Briefing;

Literature Review;

Summary Briefing;

The STARS Framework;

Frame Analysis;

Social Media Analysis - 41

ARTICLES

What's New, What Works? Countering Terrorism With Public-Facing Strategic Communication Campaigns - 75

PROJECT PAGE: <https://crestresearch.ac.uk/projects/situational-threat-and-response-signals-stars/>

SOFT FACTS AND DIGITAL BEHAVIOURAL INFLUENCING

PI: MARTIN INNES

This study examined how 'soft facts' attached to security events influence individual and collective behaviours, and what are the most effective countermeasures for managing their consequences.

JOURNALS

Dobrev, D., Grinnell, D., & Innes, M. (2020). Prophets and Loss: How 'Soft Facts' on Social Media Influenced the Brexit Campaign and Social Reactions to the Murder of Jo Cox MP. *Policy & Internet*, 12(2), 144–164. <https://doi.org/10.1002/poi3.203>

Innes, M. (2020). Techniques of disinformation: Constructing and communicating 'soft facts' after terrorism. *The British Journal of Sociology*, 71(2), 284–299. <https://doi.org/10.1111/1468-4446.12735>

ARTICLES

Russian Influence And Interference On Twitter Following The 2017 UK Terrorist Attacks - 12

REPORTS

Soft Facts And Digital Behavioural Influencing After The 2017 Terror Attacks - 12, 42

BRIEFS

Russian Influence And Interference Measures Following The 2017 UK Terrorist Attacks - 12

PROJECT PAGE: <https://crestresearch.ac.uk/projects/soft-facts-digital-behavioural-influencing/>

STATE OF THE UNION: A Synthesis Of Recent Evidence For Multilevel Drivers Of Involvement In Terrorism

PI: NOÉMIE BOUHANA

This project aims to synthesise the most recent thinking and evidence on terrorism involvement in the West and, to explore whether the key models of terrorism involvement remain applicable to the UK's most recent homegrown cases.

REPORTS

Are Conceptual Frameworks Of Radicalisation Leading To Involvement In Terrorism 'Observable'? - 33

PROJECT PAGE: <https://crestresearch.ac.uk/projects/state-of-the-union/>

TAKING DECISIONS ABOUT INFORMATION VALUE

PI: ASHRAF LABIB

This project developed and evaluated an innovative approach to address errors in judgement in the decision-making process.

GUIDES

A Sea Change For Intelligence Analysis? - 22

REPORTS

Taking Decisions About Information Value - 22

PROJECT PAGE: <https://crestresearch.ac.uk/projects/taking-decisions-information-value/>

TERRORIST DECISION-MAKING Regarding Security And Risk

PI: PAUL GILL

This project built a better understanding of how terrorists make judgements about risk and security, and how this informs their actions (e.g., operational security measures, targeting decisions, hostile reconnaissance).

GUIDES

How Do Criminals Make Decisions? - 24, 38

How Do Terrorists Make Decisions? - 24, 38

ARTICLES

8 Things You Need To Know About Terrorist Decision-Making - 56

PROJECT PAGE: <https://crestresearch.ac.uk/projects/terrorist-decision-making/>

THE ADAPTABLE LAW ENFORCEMENT OFFICER: Developing A Measure Of Adaptive Effectiveness

PI: SIMON OLESZKIEWICZ

This project developed a behavioural measure of adaptability relevant to police contexts through the use of a novel experimental paradigm.

ARTICLES

The Adaptable Law Enforcement Officer - 66

REPORTS

Developing A Paradigm To Assess And Measure Adaptability - 22

PROJECT PAGE: <https://crestresearch.ac.uk/projects/human-engagement-through-ai/>

THE CYBER SECURITY RISKS OF DIGITAL HOARDING

PI: NICK NEAVE

This project explored the psychological characteristics of individuals who engage in digital hoarding, and the risks these behaviours can pose to organisations.

JOURNALS

Neave, N., Briggs, P., McKellar, K., & Sillence, E. (2019). Digital hoarding behaviours: Measurement and evaluation. *Computers in Human Behavior*, 96, 72–77. <https://doi.org/10.1016/j.chb.2019.01.037>

ARTICLES

The Risks Of Digital Hoarding - 31

REPORTS

Cybersecurity Risks Of Digital Hoarding Behaviours - 31

PROJECT PAGE: <https://crestresearch.ac.uk/projects/cyber-security-risks-digital-hoarding/>

THE EFFECT OF DIFFERENT ONLINE MEDIUMS And Variable Formats On Information Disclosure In Vetting Interviews

PI: CALVIN BURNS

This project examines how different online mediums (audio and video) affect disclosure of information during interviews.

Outputs and publications from this project coming soon.

PROJECT PAGE: <https://crestresearch.ac.uk/projects/online-vetting-interviews/>

THE INTERNAL BRAKES ON VIOLENT ESCALATION


PI: JOEL BUSER


This project enhanced our understanding of decision making within extremist / terrorist groups and movements by enabling analysis of a largely neglected dimension of their decision-making: the mechanisms through which group members themselves seek to inhibit or set parameters around the adoption of new or more extreme forms of violence – what we refer to as the 'internal brakes' on violent escalation.

JOURNALS

Busher, J., Holbrook, D., & Macklin, G. (2019). The internal brakes on violent escalation: A typology. *Behavioral Sciences of Terrorism and Political Aggression*, 11(1), 3–25. <https://doi.org/10.1080/19434472.2018.1551918>

ARTICLES

Credibility Contests And The Ebb And Flow Of Anti-Minority Activism - 

Explaining Non- Or Limited Escalation Of Violence: The Role Of 'Internal Brakes' - 

REPORTS

The Internal Brakes On Violent Escalation: A Descriptive Typology - 10, 32

The Internal Brakes On Violent Escalation: The Transnational And British Jihadi Scene - 10, 32

The Internal Brakes On Violent Escalation: The British Extreme Right - 10, 32

The Internal Brakes On Violent Escalation: The Animal Liberation Movement - 10, 32

PROJECT PAGE: <https://crestresearch.ac.uk/projects/internal-brakes-on-violent-escalation/>

INTEROP

The Psychology Of Interoperability: Building Better Multi-Agency Counter-Terrorism Training

PI: NICOLA POWER

This project identifies the behavioural and verbal indicators of challenges to interoperability with the aim of developing and testing a training intervention.

GUIDES

The Psychology of Interoperability: Study One Summary - 41

ARTICLES

What psychology tells us about the failure of the emergency services at the Manchester Arena bombing - 41

PROJECT PAGE: <https://crestresearch.ac.uk/projects/building-better-multi-agency-counter-terrorism-training/>

TRAUMA, ADVERSITY AND VIOLENT EXTREMISM

PI: SARAH MARSDEN

This project focuses on understanding how trauma and adversity are implicated in violent extremism's causes, processes and outcomes as well as considering the implications of these insights for intervention policy and practice.

REPORTS

Trauma, Adversity, And Violent Extremism - 9, 32, 39

The Psychological Effects of Criminal Justice Measure - 15, 37

PROJECT PAGE: <https://crestresearch.ac.uk/projects/trauma-adversity-and-violent-extremism/>

UNDERSTANDING AND COUNTERING ONLINE BEHAVIOUR

PI: ADAM JOINSON

This project provided an understanding of online behaviours and how the internet can be used in recruitment and radicalisation.

JOURNALS

Bowden-Green, T., Hinds, J., & Joinson, A. (2020). How is extraversion related to social media use? A literature review. *Personality and Individual Differences*, 164, 110040. <https://doi.org/10.1016/j.paid.2020.110040>

Davidson, B. I., Ellis, D. A., Stachl, C., Taylor, P., & Joinson, A. (2021). Measurement practices exacerbate the generalizability crisis: Novel digital measures can help [Preprint]. *PsyArXiv*. <https://doi.org/10.31234/osf.io/8abzy>

Ellis, D. A., Davidson, B. I., Shaw, H., & Geyer, K. (2019). Do smartphone usage scales predict behavior? *International Journal of Human-Computer Studies*, 130, 86–92. <https://doi.org/10.1016/j.ijhcs.2019.05.004>

Ellis, D. A., Davidson, B. I., Shaw, H., & Geyer, K. (2019). Do smartphone usage scales predict behavior? *International Journal of Human-Computer Studies*, 130, 86–92. <https://doi.org/10.1016/j.ijhcs.2019.05.004>

Geyer, K., Ellis, D. A., & Piwek, L. (2019). A simple location-tracking app for psychological research. *Behavior Research Methods*, 51(6), 2840–2846. <https://doi.org/10.3758/s13428-018-1164-y>

Hinds, J., & Joinson, A. (2017). Radicalization, the Internet and Cybersecurity: Opportunities and Challenges for HCI. In T. Tryfonas (Ed.), *Human Aspects of Information Security, Privacy and Trust* (Vol. 10292, pp. 481–493). Springer International Publishing. https://doi.org/10.1007/978-3-319-58460-7_33

Hinds, J., & Joinson, A. (2019). Human and Computer Personality Prediction From Digital Footprints. *Current Directions in Psychological Science*, 28(2), 204–211. <https://doi.org/10.1177/0963721419827849>

Hinds, J., & Joinson, A. N. (2018). What demographic attributes do our digital footprints reveal? A systematic review. *PLOS ONE*, 13(11), e0207112. <https://doi.org/10.1371/journal.pone.0207112>

Joinson, A., & Piwek, L. (2016). Technology and the formation of socially positive behaviours: 'Key issues, interdisciplinary approaches and future directions'. In *Beyond Behaviour Change—Key Issues, Interdisciplinary Approaches and Future Directions*, (pp. 157–178). <https://doi.org/10.1332/policypress/9781447317555.003.0008>

Marder, B., Houghton, D., Joinson, A., Shankar, A., & Bull, E. (2016). Understanding the Psychological Process of Avoidance-Based Self-Regulation on Facebook. *Cyberpsychology, Behavior, and Social Networking*, 19(5), 321–327. <https://doi.org/10.1089/cyber.2015.0564>

Muir, K., Joinson, A., Cotterill, R., & Dewdney, N. (2016). Characterizing the Linguistic Chameleon: Personal and Social Correlates of Linguistic Style Accommodation: Characterizing the Linguistic Chameleon. *Human Communication Research*, 42(3), 462–484. <https://doi.org/10.1111/hcre.12083>

Piwek, L., Ellis, D. A., Andrews, S., & Joinson, A. (2016). The Rise of Consumer Health Wearables: Promises and Barriers. *PLOS Medicine*, 13(2), e1001953. <https://doi.org/10.1371/journal.pmed.1001953>

Ryder, N. (2017). Out with the old and...in with the old? A critical review of the financial war on terrorism on the Islamic state of Iraq and Levant. *Studies in Conflict and Terrorism*, 41(2). <https://doi.org/10.1080/1057610X.2016.1249780>

Shaw, H., Ellis, D. A., Geyer, K., Davidson, B. I., Ziegler, F. V., & Smith, A. (2020). Quantifying smartphone "use": Choice of measurement impacts relationships between "usage" and health. *Technology, Mind, and Behavior*, 1(2). <https://doi.org/10.1037/tmb0000022>

Williams, E. J., Beardmore, A., & Joinson, A. N. (2017). Individual differences in susceptibility to online influence: A theoretical review. *Computers in Human Behavior*, 72, 412–421. <https://doi.org/10.1016/j.chb.2017.03.002>

Williams, E. J., Hinds, J., & Joinson, A. N. (2018). Exploring susceptibility to phishing in the workplace. *International Journal of Human-Computer Studies*, 120, 1–13. <https://doi.org/10.1016/j.ijhcs.2018.06.004>

Williams, E. J., Morgan, P. L., & Joinson, A. N. (2017). Press accept to update now: Individual differences in susceptibility to malevolent interruptions. *Decision Support Systems*, 96, 119–129. <https://doi.org/10.1016/j.dss.2017.02.014>

ARTICLES

Behaviour Prediction: The Challenges And Opportunities Of Big Data - 62

Eliciting Information Online - 46

How Does Phishing Work? - 46

Is There Something Missing? Terror Finances And The UK Review Of Economic Crime - 62

Mind Map: The Buffers Guide To Networks - 54

The Criminal Finances Bill - 62

The Future Of Wearable Technology - 46

What Is The Role Of Technology In An Emergency? - 48

Where Does The Islamic State Get Its Money? - 62

Why Networks Matter - 54

GUIDES

2017 Messaging Applications - 33

Introductory Guide To Phishing - 33

PROJECT PAGE: <https://crestresearch.ac.uk/projects/understanding-and-countering-online-behaviour/>

UNDERSTANDING MORAL INJURY And Belief Change In The Experiences Of Police Investigators In Child Exploitation Units

PI: PETER LEE

This project examined the effect of continuous exposure to visual imagery in the police and other law enforcement professionals who investigate child exploitation.

GUIDES

Moral Injury In Child Exploitation Investigators - 30

Exploring Trauma In Child Exploitation Investigators - 30

REPORTS

Understanding Moral Injury In Police Online Child Sex Crime Investigators - 30

PROJECT PAGE: <https://crestresearch.ac.uk/projects/understanding-moral-injury-child-exploitation/>

UNDERSTANDING 21ST CENTURY MILITANT ANTI-FASCISM: An Analytical Framework And Matrix

PI: NIGEL COPSEY

This project enhanced our understanding of 21st-century militant anti-fascism as a form of 'violent domestic extremism'.

JOURNALS

Copsey, N., & Merrill, S. (2020). Violence and Restraint within Antifa: A View from the United States. *Perspectives on Terrorism*, 14(6), 122-138. <https://www.jstor.org/stable/26964730>

REPORTS

Understanding 21st-Century Militant Anti-Fascism - 'Understanding 21st-Century Militant Anti-Fascism' - 11

PROJECT PAGE: <https://crestresearch.ac.uk/projects/twenty-first-century-militant-anti-fascism/>

UNDERSTANDING WHEN EXTREMISM GIVES WAY TO MODERATE POLITICS:

The Case Of Sri Lanka, 1983–2016

PI: CHRISTOPHER MCDOWELL

This project examined why, despite expectations, the LTTE ('Tamil Tigers') has not returned to fighting.

ARTICLES

Displacement And Transition Risks - 7

Sri Lanka, Diaspora Politics, And The End Of Violence - 7

REPORTS

Understanding Transnational Diaspora Politics: A Conceptual Discussion - 7

The Engagement Of Refugees In Transnational Politics: Lessons From The Migration, Diaspora And Refugee Studies Literature - 7

Asylum, Security, And Extremism - 7

PROJECT PAGE: <https://crestresearch.ac.uk/projects/extremism-to-moderate-politics/>

WHY DO PEOPLE ADOPT CONSPIRACY THEORIES

How Are They Communicated, And What Are Their Risks?

PI: KAREN DOUGLAS

This project developed our understanding of conspiracy theories: their emergence, transmission and methods to counter them.

JOURNALS

Douglas, K. M., Sutton, R. M., & Cichocka, A. (2017). The Psychology of Conspiracy Theories. *Current Directions in Psychological Science*, 26(6), 538–542. <https://doi.org/10.1177/0963721417718261>

Douglas, K. M., Uscinski, J. E., Sutton, R. M., Cichocka, A., Nefes, T., Ang, C. S., & Deravi, F. (2019). Understanding Conspiracy Theories. *Political Psychology*, 40(S1), 3–35. <https://doi.org/10.1111/pops.12568>

REPORTS

Conspiracy Theories: How Are They Adopted, Communicated, And What Are Their Risks? - 17, 28, 40

PROJECT PAGE: <https://crestresearch.ac.uk/projects/conspiracy-theories/>

WHY DO PEOPLE SPREAD DISINFORMATION ON SOCIAL MEDIA?

PI: TOM BUCHANAN

This project identifies the characteristics of disinformation messages (e.g., authoritative source, digital media literacy) that determine whether they are shared online, and the moderating effect of social media context.

JOURNALS

Buchanan, T. (2020). Why do people spread false information online? The effects of message and viewer characteristics on self-reported likelihood of sharing social media disinformation. *PLOS ONE*, 15(10), e0239666. <https://doi.org/10.1371/journal.pone.0239666>

BRIEFS

Why Do People Share Disinformation On Social Media? - 9, 42

PROJECT PAGE: <https://crestresearch.ac.uk/projects/disinformation-on-social-media/>



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