
Encyclopedia of Security and Emergency Management

Lauren R. Shapiro • Marie-Helen Maras
Editors

Encyclopedia of Security and Emergency Management

With 53 Figures and 38 Tables

 Springer

Editors

Lauren R. Shapiro
Department of Security, Fire, and
Emergency Management
John Jay College of Criminal Justice
City University of New York
New York, NY, USA

Marie-Helen Maras
Department of Security, Fire, and
Emergency Management
John Jay College of Criminal Justice
City University of New York
New York, NY, USA

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Dedication

*To my parents, Lawrence and Irma Shapiro,
For your years of endless guidance, support, and love –
thank you*

*To my beloved niece and goddaughter, Phoebe Maras
Follow your dreams and make them a reality*

Preface

National and international security concerns have considerably evolved. Globalization has triggered growing and exponential threats that challenge the security and stability of countries by transcending traditional borders and having a transnational impact. To understand these security threats and the ways to counter them, a multidisciplinary approach to their examination is required. This encyclopedia was written to fill the void by comprehensively covering various facets of security through a multidisciplinary lens of criminology, criminal justice, sociology, psychology, law, police studies, political science, history, risk, computer science, management, and public policy and administration. Particularly, this encyclopedia provides students, academics, and practitioners in a wide range of fields with comprehensive and contemporary information on security. The topics range from security threats (e.g., cybercrime, terrorism, shoplifting, and fraud) to both applications on the job and coordination between public and private sectors in handling security and emergency situations nationally and internationally. The chapters cover security concepts, methods, functions, theories, organizations, and technology; the history and current state of the discipline; security measures (i.e., physical security, personnel security, and cybersecurity); critical infrastructure protection; emergency management; and public-private partnerships. The encyclopedia will serve as a resource allowing readers to learn best practices in security; understand weaknesses in current techniques; develop risk assessment skills; predict vulnerability in a range of businesses and critical infrastructure sectors (e.g., healthcare, energy, water, dams, financial, commercial, and government facilities, communications, and information technology sectors, to name a few); and implement mechanisms for managing natural and human-made disasters.

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Reviewers

Alex Alexandrou, Chelsea Binns, Robert Matthiessen, Robert D. McCrie, Susan Pickman, Robert Till, Lucia Velotti, and Hung-Lung Wei

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About the Editors



Dr. Lauren R. Shapiro is an Associate Professor in the Department of Security, Fire, and Emergency Management at John Jay College in New York. Her Ph.D. is in Developmental Psychology from Rutgers University, and she also has an M.S. in Criminal Justice from Indiana University, an M.S. in Experimental Psychology from Ohio University, and a dual B.A. in Psychology and in Early Childhood Education from the University of Buffalo. Dr. Shapiro was a Postdoctoral Research Fellow at the Carolina Consortium on Human Development at the University of North Carolina, Chapel Hill. She served as an Extern with the Honorable Ralph Erickson in the US District Court of North Dakota, Fargo, and as an Intern with the Fargo Police Department. Dr. Shapiro has certificates from the Royal Canadian Mounted Police in First Responder Terrorism Awareness (core program) and from the City of Fargo ND in Child Custody Investigator. She teaches professional training workshops and certificate courses for justice and security professionals. Dr. Shapiro consults with psychologists, attorneys, and officials in the police, sheriff, and district attorney departments and has been interviewed about her work by television and newspaper journalists. She is the co-author of *Multidisciplinary Investigation of Child Maltreatment* (Jones and Bartlett, 2016) and author of *Cyberpredators and Their Prey* (CRC Press), which should be available next year. Her research, which focuses on various issues in physical security, border security, private investigation, cyber security, and school safety and security, has been presented at national and international conferences and published in journals and books.



Dr. Marie-Helen (Maria) Maras is an Associate Professor at the Department of Security, Fire, and Emergency Management at John Jay College of Criminal Justice. She is also part of the faculty of the M.S. program in Digital Forensics and Cybersecurity at John Jay College of Criminal Justice and the Ph.D. program in Criminal Justice at the CUNY Graduate Center. Dr. Maras has a DPhil. in Law and an MPhil in Criminology and Criminal Justice from the University of Oxford. In addition, she holds a graduate degree in Industrial and Organizational Psychology from the University of New Haven and undergraduate degrees in Computer and Information Science and Psychology from UMUC. She is the author of *Cybercriminology* (Oxford University Press, 2016); *Computer Forensics: Cybercriminals, Laws, and Evidence* (now in its second edition; Jones and Bartlett, 2014); *Counterterrorism* (Jones and Bartlett, 2012); *CRC Press Terrorism Reader* (CRC Press, 2013); and *Transnational Security* (CRC Press, 2014), among other publications. Prior to her academic post, she served in the US Navy for approximately seven years, gaining significant experience in security and law enforcement from her posts as a Navy Law Enforcement Specialist and Command Investigator. During the early stages of her military career, she worked as an Electronics and Calibration Technician.

Contributors

Shannon N. Abbott Center for Global Security and Cooperation, Sandia National Laboratories, Albuquerque, NM, USA

Yalcin Acikgoz Department of Psychology, Appalachian State University, Boone, NC, USA

Halil Akbas Troy University, Troy, AL, USA

Alex Alexandrou John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Rifath Ali Department of Safety, Security, and Emergency Management, College of Safety and Justice, Eastern Kentucky University, Richmond, KY, USA

Peter Ashwin Event Risk Management Solutions, Boise, ID, USA

Mathieu Auger-Perreault Cybersecurity, Georgia Institute of Technology, Atlanta, GA, USA

Lynne E. Baker-Ward Department of Psychology, North Carolina State University, Raleigh, NC, USA

John Balestrieri John Jay College of Criminal Justice, City University of New York, New York, NY, USA

John T. Bandler Bandler Law Firm PLLC and Bandler Group LLC and John Jay College of Criminal Justice, New York, NY, USA

Jennifer Bencivenga John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Navneet Bhushan Crafitti Consulting, Bengaluru, India

Chelsea A. Binns John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Sara Bonati SAGAS, Università degli studi di Firenze, Florence, Italy

David J. Brooks Security Science, School of Science, Edith Cowan University, Perth, WA, Australia

R. Bull University of Derby, Derby, UK

Mark Camillo Security, Fire and Emergency Management, John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Madeline Carr Department of Science, Technology, Engineering and Public Policy (UCL STEaPP), University College London, London, UK

Kevin A. Cassidy Security, Fire, and Emergency Management, John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Paolo Cavaliere University of Delaware, Newark, DE, USA

Christopher A. D. Charles Department of Government, University of the West Indies, Mona, Jamaica

Frank Chen John Jay College of Criminal Justice, New York, NY, USA

Constantine (Dean) K. Christakos Columbia University, New York, NY, USA

Alex Chung Department of Science, Technology, Engineering and Public Policy (UCL STEaPP), University College London, London, UK

Christopher Cleary St. John's University, New York, NY, USA

Maira Compagnone Department of Psychology, Appalachian State University, Boone, NC, USA

Michael P. Coole Security Science, School of Science, Edith Cowan University, Perth, WA, Australia

Keith Cozine College of Professional Studies, St. John's University, Queens, New York City, NY, USA

G. Dalton Institute of Criminal Justice Studies, University of Portsmouth, Portsmouth, UK

Sneha Dawda Department of Science, Technology, Engineering and Public Policy (UCL STEaPP), University College London, London, UK

Mark DeMario John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Sarah E. DeYoung University of Georgia, Athens, GA, USA

Jared R. Dmello Center for Terrorism and Security Studies, University of Massachusetts Lowell, Lowell, MA, USA

Christopher Dowling Australian Institute of Criminology, Canberra, ACT, Australia

James M. Duggan Center for Terrorism and Security Studies, University of Massachusetts Lowell, Lowell, MA, USA

Michael A. Edgerton HudsonTrident, Inc, Camden, NJ, USA

Yarin Eski Knowledge Hub Security and Societal Resilience/Political Science and Public Administration, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

Ashley K. Farmer Illinois State University, Normal, IL, USA

Lusiella Fazzino St. John's University, Jamaica, NY, USA

James J. F. Forest Center for Terrorism and Security Studies, University of Massachusetts Lowell, Lowell, MA, USA

Kevin R. Gamache Texas A&M University, College Station, TX, USA

Anthony Gentile Security, Fire, and Emergency Management, John Jay College of Criminal Justice, New York, NY, USA

Gary A. Gordon Emergency Management Department, Massachusetts Maritime Academy, Buzzards Bay, MA, USA

Kevin Govern Ave Maria School of Law, Naples, USA

George Grispos School of Interdisciplinary Informatics, University of Nebraska Omaha, Omaha, NE, USA

Kenneth J. Grossberger John Jay College of Criminal Justice, New York, NY, USA

Zakir Gul Criminal Justice Department, State University of New York (SUNY), Plattsburgh, NY, USA

Duygu Biricik Gulseren Department of Psychology, Saint Mary's University, Halifax, NS, Canada

Harald Haelterman Faculty of Law and Criminology – Department of Criminology, Criminal Law and Social Law, Ghent University, Ghent, Belgium

Wim Hardyns Institute for International Research on Criminal Policy (IRCP), Ghent University, Ghent, Belgium

Antwerp Research Group on Safety and Security (ARGoSS), University of Antwerp, Antwerp, Belgium

Devon Hickman Department of Psychology, Appalachian State University, Boone, NC, USA

Hua-Lun Huang Department of Sociology, Anthropology, and Child and Family Studies, University of Louisiana, Lafayette, LA, USA

Atif Hussain Systems Security Group, Institute for Future Transport and Cities (FTC), Coventry University, Coventry, UK

M. Nazrul Islam Farmingdale State College, State University of New York, Farmingdale, NY, USA

John M. Jelenek Security Department, NewYork-Presbyterian Hospital, New York, NY, USA

Bernard A. Jones Division of Criminal Justice, Legal Studies and Homeland Security, College of Professional Studies, St. John's University, Jamaica, NY, USA

E. Kevin Kelloway Department of Psychology, Saint Mary's University, Halifax, NS, Canada

Brian P. Kelly Security Systems and Law Enforcement Technology, Farmingdale State College, Farmingdale, NY, USA

Brian Kohlhepp John Jay College of Criminal Justice, New York, NY, USA
Detective Sergeant, Ross Township Police, Pittsburgh, PA, USA

M. M. Laske Department of Psychology, Appalachian State University, Boone, NC, USA

Seungmug (Zech) Lee Department of Criminology and Criminal Justice, The University of Texas at Arlington, Arlington, TX, USA

Michael K. Lindell Department of Urban Design and Planning, Institute for Hazards Mitigation Planning and Research, University of Washington, Seattle, WA, USA

Adriane C. Littlefield Center for Global Security and Cooperation, Sandia National Laboratories, Albuquerque, NM, USA

Peter Mameli Public Management, John Jay College of Criminal Justice, New York, NY, USA

Marie-Helen Maras Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Amanda W. Martin University of North Carolina, Chapel Hill, NC, USA

Ronald L. Martin Capital Technology University, Laurel, MD, USA

Robert Matthiessen Security, Fire, and Emergency Management, John Jay College of Criminal Justice, City University of New York, New York, NY, USA

B. May Institute of Criminal Justice Studies, University of Portsmouth, Portsmouth, UK

Robert McCrie Department of Security, Fire and Emergency Management, John Jay College of Criminal Justice, New York, NY, USA

David A. McEntire College of Health and Public Service, Utah Valley University, Orem, UT, USA

Clarissa Meerts Faculty of Law, Department of Criminal Justice and Criminology, Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

R. Milne Institute of Criminal Justice Studies, University of Portsmouth, Portsmouth, UK

Jennifer Mincin Health and Human Services Department, SUNY Empire State College, Selden, NY, USA

Michelle D. Miranda Farmingdale State College, The State University of New York, Farmingdale, NY, USA

Anthony Morgan Serious and Organised Crime Research Lab, Australian Institute of Criminology, Canberra, ACT, Australia

Gwynn Morris Department of Psychology, Meredith College, Raleigh, NC, USA

Veronika Nagy Willem Pompe Institute for Criminal Law and Criminology, Utrecht University, Utrecht, The Netherlands

J. Nunan Institute of Criminal Justice Studies, University of Portsmouth, Portsmouth, UK

Kenneth W. O'Donnell John Jay College of Criminal Justice, New York, NY, USA

Lisa C. Orloff Worldcares, New York, NY, USA

Heather A. Panter Centre for Advanced Policing Studies, Liverpool John Moores University, Liverpool, UK

E. Parrott Liverpool John Moores University, Liverpool, UK

Arie Perliger School of Criminology and Justice Studies, Center for Terrorism and Security Studies, University of Massachusetts Lowell, Lowell, MA, USA

Sidra Perveen King Edward Medical University, Lahore, Punjab, Pakistan

Susan Pickman John Jay College of Criminal Justice, City University of New York, New York, NY, USA

Pierre-Luc Pomerleau Business Administration – Homeland Security and Leadership Policy, Northcentral University, San Diego, CA, USA

Koen Ponnet Department Communication Sciences, imec-mict-Ghent University, Ghent, Belgium

Antwerp Research Group on Safety and Security (ARGoSS), University of Antwerp, Antwerp, Belgium

Tim Prenzler School of Law, University of the Sunshine Coast, Sunshine Coast, QLD, Australia

Troy Rawlins Department of Safety, Security, and Emergency Management, College of Safety and Justice, Eastern Kentucky University, Richmond, KY, USA

Joshua Reichert Fire Protection and Paramedicine Sciences, Eastern Kentucky University, Richmond, KY, USA

Malcolm B. Reid College of Graduate and Continuing Studies, Norwich University, Northfield, VT, USA

Genserik Reniers Safety and Security Science Group, TU Delft, Delft, The Netherlands

Antwerp Research Group on Safety and Security (ARGoSS), University of Antwerp, Antwerp, Belgium

Carlos E. Restrepo Tandon School of Engineering, New York University, New York, NY, USA

Nagaraj S. V. School of Computing Science and Engineering, VIT, Chennai, India

Douglas E. Salane Mathematics and Computer Science Department, John Jay College of Criminal Justice, New York, NY, USA

Jamie Sanderson Reid Thomson Reuters, Richmond, VA, USA

Marlies Sas Research group on Law Enforcement and Antwerp Research Group on Safety and Security (ARGoSS), University of Antwerp, Antwerp, Belgium

Emily Schindeler Griffith Criminology Institute, Griffith University, Brisbane, QLD, Australia

Paul J. Schmick Alliance Security, New York, NY, USA

Dorothy Moses Schulz Law, Police Science, and Criminal Justice Administration, John Jay College of Criminal Justice (CUNY), New York, NY, USA

Siraj Ahmed Shaikh Systems Security Group, Institute for Future Transport and Cities (FTC), Coventry University, Coventry, UK

Lauren R. Shapiro Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, City University of New York, New York, NY, USA

A. Shawyer Institute of Criminal Justice Studies, University of Portsmouth, Portsmouth, UK

Thomas Shea Police Graduate Studies Program, College of Education and Human Services, South Orange, NJ, USA

Brian Keith Simpkins Homeland Security Program, Eastern Kentucky University, Richmond, KY, USA

Sonny Smith Texas A&M University, College Station, TX, USA

Trevor A. Smith University of the West Indies, Mona, Jamaica

Anna Stamper Homeland Security, Disaster and Emergency Management, Eastern Kentucky University, Richmond, KY, USA

Veronica Strandh Department of Political Science, Umeå University, Umeå, Sweden

William J. Sullivan Homeland Security, Eastern Kentucky University, College of Justice and Safety, Richmond, KY, USA

Matthew M. Sweeney School of Criminology and Justice Studies, University of Massachusetts Lowell, Lowell, MA, USA

Tabatha Thibault Saint Mary's University, Halifax, NS, Canada

Denise D. P. Thompson Department of Public Management, John Hay College of Criminal Justice, The City University of New York, New York, NY, USA

Spyridon Triantafyllou John Jay College of Criminal Justice, New York, NY, USA

Lisa van Reemst Department of Criminology, Erasmus School of Law, Erasmus University Rotterdam, Rotterdam, The Netherlands

Lucia Velotti Department of Security, Fire and Emergency Management, City University of New York (CUNY), John Jay College of Criminal Justice, New York City, NY, USA

Adam Scott Wandt John Jay College of Criminal Justice, New York, NY, USA

Haiden Weaver Department of Psychology, Appalachian State University, Boone, NC, USA

Hung-Lung Wei Department of Security, Fire, and Emergency Management, John Jay College of Criminal Justice, CUNY, New York, NY, USA

Adam D. Williams Center for Global Security and Cooperation, Sandia National Laboratories, Albuquerque, NM, USA

Darien A. Williams Massachusetts Institute of Technology, Cambridge, MA, USA

Richard R. Young School of Business Administration, Capital College, The Pennsylvania State University, Middletown, PA, USA

Rae Zimmerman Institute for Civil Infrastructure Systems, Robert F. Wagner Graduate School of Public Service, New York University, New York, NY, USA