

# Preface

The information infrastructure – comprising computers, embedded devices, networks and software systems – is vital to operations in every sector: information technology, telecommunications, energy, banking and finance, transportation systems, chemicals, agriculture and food, defense industrial base, public health and health care, national monuments and icons, drinking water and water treatment systems, commercial facilities, dams, emergency services, commercial nuclear reactors, materials and waste, postal and shipping, and government facilities. Global business and industry, governments, indeed society itself, cannot function if major components of the critical information infrastructure are degraded, disabled or destroyed.

This book, *Critical Infrastructure Protection IX*, is the ninth volume in the annual series produced by IFIP Working Group 11.10 on Critical Infrastructure Protection, an active international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts related to critical infrastructure protection. The book presents original research results and innovative applications in the area of infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors.

This volume contains nineteen revised and edited papers from the Ninth Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection, held at SRI International in Arlington, Virginia, USA on March 16–18, 2015. The papers were refereed by members of IFIP Working Group 11.10 and other internationally-recognized experts in critical infrastructure protection. The post-conference manuscripts submitted by the authors were rewritten to accommodate the suggestions provided by the conference attendees. They were subsequently revised by the editors to produce the final chapters published in this volume.

The chapters are organized into six sections: themes and issues, control systems security, cyber-physical systems security, infrastructure security, infrastructure modeling and simulation, and risk and impact assessment. The coverage of topics showcases the richness and vitality of the discipline, and offers promising avenues for future research in critical infrastructure protection.

This book is the result of the combined efforts of several individuals and organizations. In particular, we thank Zach Tudor, Heather Drinan and Nicole Hall Hewett for their tireless work on behalf of IFIP Working Group 11.10. We gratefully acknowledge the Institute for Information Infrastructure Protection (I3P), managed by Dartmouth College, for its sponsorship of IFIP Working Group 11.10. We also thank the Department of Homeland Security, National Security Agency and SRI International for their support of IFIP Working Group 11.10 and its activities. Finally, we wish to note that all opinions, findings, conclusions and recommendations in the chapters of this book are those of the authors and do not necessarily reflect the views of their employers or funding agencies.

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