



January 4-7, 2011, The Grand Hyatt Kauai Resort & Spa, Koloa, Kauai, Hawaii.

Track: Internet and the Digital Economy

Minitrack: Emerging Risks and Systemic Concerns in Information Security Research and Applications

This minitrack provides a venue for systemic and holistic issues related to detecting, mitigating and preventing the threat of computer-based attacks and operational failures. Papers that address improving the security of computer-reliant organizations from these threats through technical, organizational, or behavioral change are encouraged. These may include simulation studies, case-based research, empirical studies, and other applications of quantitative and qualitative methods.

Topics include, but are not limited to:

- Identifying modes of misuse
- Applications of access policies
- Analysis of known and unknown modes of attack
- Separating anomalous from routine behavior
- Detecting and mitigating insider threats
- Modeling risks and approaches to mitigation
- Teaching and training security and business managers about information security and the enterprise
- The economics of information security
- Creating channels and techniques to share confidential information
- Modeling and theory building of security issues
- Unifying security and safety models

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Jose J. Gonzalez (dr.rer.nat., University of Kiel, DE, dr.techn., University of Science and Technology, NO) has long experience as professor of SD and information security at the University of Agder and as adjunct professor of information security at Gjøvik University College, both in Norway. He has published in leading journals and conferences on SD modelling, information security, critical infrastructure, organizational learning and Interactive Training Environments. Many of these papers are the result of international cooperation involving an extensive network of German, Norwegian, Spanish, Swedish and American partners. Among the most recent large-scale projects led and coordinated by Dr. Gonzalez is AMBASEC (funded by the Research Council of Norway and the Norwegian Oil Industry Association), dealing with incident response and handling in eOperations in the oil & gas sector. Dr. Gonzalez also participates in the EU-funded SEMPOC project.

Eliot Rich received the PhD degree from the University at Albany, State University of New York. He also holds degrees from Harvard University and Brooklyn College, and is now assistant professor in the Department of Information Technology Management, School of Business, University at Albany, State University of New York. His research and teaching focus on the interplay between software systems and organizations. His approach combines computer simulation with the techniques of organizational analysis to identify and analyze complex business and governmental problems. Prior to receiving his PhD he worked for 13 years as a software designer, business analyst, and software development manager in the financial, health care, and public sectors.

After research visits to Stanford University and Queensland University of Technology, Brisbane, Australia, **Guido Schryen** received a doctorate in information systems from the RWTH Aachen University and earned a post-doctorate degree (habilitation/venia legendi) at the RWTH Aachen University. Since May 2007, he holds a position as assistant professor at the Institute of Business Information Systems, RWTH Aachen University. From September 2008 to August 2009, he joined the International Computer Science Institute (ICSI) at Berkeley (USA), sponsored by the German Academic Exchange Service (DAAD). Starting in October 2009, he is on leave at the University of Freiburg, where he holds a position as temporary professor of Information Systems Research. His fields of interest cover technical and economic issues of information and communication (systems) security, electronic business, and Internet voting.