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Preface

Intelligence and security informatics (ISI) can be broadly defined as the study of the development and use of advanced information technologies and systems for national and international security-related applications, through an integrated technological, organizational, and policy-based approach. In the past few years, ISI research has experienced tremendous growth and attracted substantial interest from academic researchers in related fields as well as practitioners from both government agencies and industry.

The first two meetings (ISI 2003 and ISI 2004) in the ISI symposium and conference series were held in Tucson, Arizona, in 2003 and 2004, respectively. They provided a stimulating intellectual forum for discussion among previously disparate communities: academic researchers in information technologies, computer science, public policy, and social studies; local, state, and federal law enforcement and intelligence experts; and information technology industry consultants and practitioners.

Building on the momentum of these ISI meetings and with sponsorship by the IEEE, we held the IEEE International Conference on Intelligence and Security Informatics (ISI 2005) in May 2005 in Atlanta, Georgia. In addition to the established and emerging ISI research topics covered at past ISI meetings, ISI 2005 included a new track on Terrorism Informatics, which is a new stream of terrorism research leveraging the latest advances in social science methodologies, and information technologies and tools.

ISI 2005 was jointly hosted by Rutgers, the State University of New Jersey; the University of Arizona (UA); and the Georgia Institute of Technology (GATECH). The two-day program included one plenary panel discussion session focusing on the perspectives and future research directions of the government funding agencies, several invited panel sessions, 62 regular papers, and 38 posters. In addition to the main sponsorship from the National Science Foundation, the Intelligence Technology Innovation Center, and the US Department of Homeland Security, the conference was also co-sponsored by several units within the three hosting universities including: the School of Communication, Information and Library Studies at Rutgers; the Center for Discrete Mathematics and Theoretical Computer Science at Rutgers; the Eller College of Management and the Management Information Systems Department at UA; the NSF COPLINK Center of Excellence at UA; the Mark and Susan Hoffman E-Commerce Laboratory at UA; the Artificial Intelligence Laboratory at UA; the Program for Advanced Research in Complex Systems at UA; the College of Computing at GATECH; and the Georgia Tech Information Security Center.

We wish to express our gratitude to all members of the ISI 2005 Program Committee and additional reviewers who provided high-quality, constructive review comments under an unreasonably short lead-time. Our special thanks go to Dr. Joshua Sinai and Dr. Edna Reid who recruited high-caliber contributors from the terrorism

informatics research community and helped process submissions in the terrorism informatics area. We wish to express our gratitude to Ms. Catherine Larson, Ms. Priscilla Rasmussen, Mr. Shing Ka Wu, Ms. Shelee Saal, and Ms. Sarah Donnelly for providing excellent conference logistics support. We also would like to thank Mr. Jialun Qin, Mr. Daning Hu, Mr. Tao Wang, Mr. Jian Ma, and Mr. Xiaopeng Zhong, all graduates students at UA, for their great help with compiling the proceedings.

ISI 2005 was co-located with the 6th Annual National Conference on Digital Government Research (DG.O). We wish to thank the DG.O organizers and support staff for their cooperation and assistance. We also would like to thank the Springer LNCS editorial and production staff for their professionalism and continuous support for the ISI symposium and conference series.

Our sincere gratitude goes to all of the sponsors. Last, but not least, we thank Dr. Joshua Sinai, Dr. Art Becker, Dr. Michael Pazzani, Dr. Valerie Gregg, and Dr. Larry Brandt for their strong and continuous support of the ISI series and other related ISI research.

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