
Ottowa, Ontario, Canada
8-11 October 2007

IEEE
2007 IEEE ICCST Program

Monday, October 8, 2007

09:00–14:00pm
Annual ICCST Carnahan Cup Golf Tournament
The Meadows Golf & Country Club

14:00–20:00pm
Exhibitor Setup

18:30–21:00pm
Registration & Reception with light hors d’oeuvres

Tuesday, October 9, 2007

08:00–09:00am
Registration

09:00–09:30am
Opening Remarks & Introductions

09:30–10:00am
Keynote Speaker

10:00–17:00pm
Exhibits Open

10:00–10:30am
Morning Break

10:30–12:00pm
Session 1a: Security Program & System Design
Moderator: Mr. Gene Greneker, USA

It's All About the System: Changing The Way We Think About Designing Security Systems ........................................ 1
Kerrin A. Barrett - Sandia National Laboratories, USA

An Initiative to Improve the State of Information Security at Local Governments in Japan ........................................ 8
Davar Pishva, Naoshi Kitamura, Seiji Tsugawa, Keiji Takeda - Carnegie Mellon CyLab, Japan

Critical Energy Infrastructure Protection in the Arab Gulf Using Multiple Technological Platforms ........................ 18
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On-Line Signature Verification by Dynamic Time Warping and Gaussian Mixture Models ............................ 23
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Session 1b: Biometrics
Moderator: Mr. Alfonso Bilboa, Spain

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Almudena Lindoso, Luis Entrena, Judith Liu-Jimenez, Enrique San Millán - University Carlos III of Madrid, Spain
Session 1b: Biometrics
Moderator: Mr. Alfonso Bilboa, Spain

Vascular Biometric Systems & Their Security Evaluation
Raul Sanchez-Reillo, Belen Fernandez-Saavedra, Judith Liu-Jimenez, Carmen Sanches-Avila - University Carlos III of Madrid, Spain

Low Cost Multimodal Biometric Identification System Based on Hand Geometry, Palm & Fingerprint Texture
Miguel A Ferrer, Carlos M. Travieso, Jesus B. Alonso - Universidad de Las Palmas de Gran Canaria, Spain

12:00-13:00pm
Lunch Break

13:00-15:00pm
Session 2a: Security Risk Assessment
Moderator: Dr. Mark Stroud, UK

RFID Security Threats to Consumers: Hype vs. Reality
Shantanu Rao, Nagaraja Thantry, Ravi Pendse - Wichita State University, USA

A Risk Management Method Based on the AS/NZS 4360 Standard
Alejandro Castillo, Enrique Bilbao, Alfonso Bilbao - Universidad Politecnica de Madrid, Spain

Securing Large Applications Against Command Injections
Guy-Vincent Jourdan - University of Ottawa, Canada

Implementing Known Shipper Supply Chain Security Solutions in the USA & Europe
Marcus Hallside - Innovative Compliance Inc, USA

Session 2b: Biometrics
Moderator: Mr. Rick Lazarick, USA

Bacterial Survivability & Transferability on Biometric Devices
Christy Blomeke, Stephen J. Elliott, Thomas Walter, Brandt M. Davis, James E. Tollefson - Purdue University, USA

Smart-Card-Based Face Verification System: Empirical Optimization of System Meta-Parameters
Thirumachos Bourlai, Josef Kittler, Kieron Messer - University of Surrey, UK

Arbitrary Illumination Conditions for Facial Identification
Carlos M. Travieso, Jesus B Alonso, Miguel A. Ferrer - Universidad de Las Palmas de Gran Canaria, Spain

Robust Biometric Identification Combining Face & Speech
Enric Monte-Moreno, Marcos Faulandez-Zanuy - Universitat Politècnica de Mataró (UPC), Spain

15:00-15:30pm
Afternoon Break

15:30–17:00pm
Session 3a: Border & Port Protection
Moderator: Mr. Jack Veatch, USA

Border Intrusion Detection - Thinking Outside the Perimeter
Dr. Keith Harmon, Gord Loney - Senstar-Stellar Corporation, Canada

PortSim - A Port Security Simulation & Visualization Tool
Dr. Daniel B. Koch - Oak Ridge National Labs, USA
Session 3b: Biometrics & Communication Security
Moderator: Mr. Ron Clifton, Canada

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Ann Barry, David S. Mazel, John O’Neil - Technology Service Corporation, USA

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Session 5: Intrusion Detection System Developments
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Dr. Adrian Schwaninger, Saskia M. Koller - University of Zurich
Stefan Michel - Max Planck Institute, Robert Moerland - National Coordinator for Counterterrorism

12:00–13:00pm
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Moderator: Dr. Gordon Thomas, UK

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Patricia Henriquez-Universidad de Las Palmas de Gran Canaria

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Katsumi Ono - National Police Agency, Japan

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18:00–18:30pm
Transportation to the Annual Carnahan Banquet
Canadian Aviation Museum

18:30-19:30pm
Refreshments And Self Guided Tour Of The Museum

19:30-21:30pm
Annual Carnahan Banquet
08:30–12:00pm
Exhibits Open

08:30–10:00am
Session 8: Video Surveillance Systems
Moderator: Dr. Adrian Schwaninger, Switzerland

Can CCTV Reliably Detect Gun Crime?
Iain Darker, Alastair Gale, Leila Ward, Anastassia Blechko - University of Loughborough, UK

Threat Image Projection in CCTV
David Neil, Nicola Thomas, Bob Baker - Home Office Scientific Development Branch, UK

An Efficient Face Identification Method in a Transformed Domain
Marcos Faundez-Zanuy, Virginia Espinosa-Duró, Juan Antonio Ortega - Technical University of Catalonia, Spain

Usability and Acceptance of UF-IBA, an Image-Based Authentication System
Pyush Harsh, Richard E. Newman-University of Florida

10:00–10:30am
Morning Break

10:30–12:00pm
Session 9: Security & Detection Systems
Moderator: Dr. G. Dan Smith, USA

A Neutron Based Vehicle Borne Improvised Explosive Device Detection System
D. Koltick, S. McConchie- Purdue University, USA

Detection of Terrorist Threats in Air Passenger Luggage: Expertise Development
Xi Liu, Alastair Gale, Tao Song - University of Loughborough, UK

License Plate Detection & Recognition Using a Dual-Camera Module in a Large Space
Chin-Chuan Han, Cheng-Ta Hsieh, Gang-Feng Ho, Chang-Lung Tsai, Kuo-Chin Fan - National United University, Taiwan

Experimental Verification of a Posteriori Quality Enhancement of Security Images
Milos Klima, Karel Fliegel, Jan Svihlik - Czech Technical University in Prague, Czech Republic

12:00–12:15pm
Final Remarks

12:30–16:00pm
Afternoon Tours (Optional)
Includes transportation and lunch
Back-Up Papers

An Image Quality Assessment Method based on HVS .......................................................... 320
Wu Wei - Center of Aviation Safety Technology CAAC, Beijing, China