CISIM 2012

11th Int. Conf. on Information Systems and Industrial Management
Venice, Italy, September 26-28, 2012

Conference Program

Wednesday 26 September

9.00 - 9.30 Registration and Welcome Address (chair: Agostino Cortesi)

9.30 -10.30 Invited Tutorial
(chair: Nabendu Chaki)
Pierpaolo Degano: "Formalising Security in Ubiquitous and Cloud Scenarios

10.30 – 10.50 Coffee Break

10.50 - 13.00 Session I "Security, Access Control and Intrusion Detection" (chair: Khalid Saeed)

- Certificate-Based Encryption Scheme with General Access Structure (Jerzy Pejas and Tomasz Hyla)
- Security margin evaluation of SHA-3 contest analists through SAT-based attacks (Pawel Morawiecki, Marian Srebrny, Ekawat Homsirikamol and Marcin Rogawski)
- *[Usage Control Model Specification in XACML (Ume Ghazia, Awais Shibli, Rahat Masood and Muhammad Bilal)]*
- TIDS: Trust-based Intrusion Detection System for Wireless Ad-hoc Networks (Novarun Deb and Nabendu Chaki)

13.00 - 14.00 Lunch

14.00 – 15.30 Session II "Security, Access Control and Intrusion Detection" (chair: Pierpaolo Degano)

- Intruder Data Classification using GM-SOM (Pavel Moravec and Petr Gajdos)
- Method for Identification of Suitable Persons in Collaborators Networks (Pavla Drazdilova, Alisa Babskova, Jan Martinovic, Katerina Slaninova and Stepan Minks)
- *[A Graph-Based Formalism for Controlling Access to a Digital Library Ontology (Subhasis Dasgupta and Aditya Bagchi)]*
- Role Approach in Access Control Development with the Usage Control Concept (Aneta Poniszewska-Maranda)

15.30 – 15.50 Coffee Break

15.50 – 17.50 Session III: Pattern Recognition and Image Processing (chair: Roy Maxion)

- A New Algorithm for Rotation Detection in Iris Pattern Recognition (Krzysztof Misztal, Jacek Tabor and Khalid Saeed)
- Dynamic Signature Recognition Based on Modifed Windows Technique (Rafal Doroz and Krzysztof Wrobel)
- Rigid and Non-rigid Shape Matching for Mechanical Components Retrieval (Andrea Albarelli, Filippo Bergamasco and Andrea Torsello)
- Embedding of the Extended Euclidean Distance into Pattern Recognition with Higher-Order Singular Value Decomposition of Prototype Tensors (Boguslaw Cyganek)

Thursday 27 September

9.00 – 10.00 Invited Lecture (chair: Khalid Saeed)
Roy Maxion: "Science of security and behavioral biometrics"

10.00 – 10.20 Coffee Break

10.20 - 12.50 Session IV: Biometric Applications (chair: Roy Maxion)

- DTW and Voting-based Lip Print Recognition System (Piotr Porwik and Tomasz Orczyk)
- Advances in the Keystroke Dynamics: the Practical Impact of Database Quality (Mariusz Rybnik, Piotr Panasiuk, Khalid Saeed and Marcin Rogowski)
- Advanced Intracardial Biosignal Processing (Marek Penhaker, Petr Klimes, Jakub Pindor and David Korpas)
- Multi-constraints Face Detect-track System (Hazar Mliki, Mohamed Hammami and Hanene Ben-Abdallah)
- Using a Differential Pressure Sensor as Spirometer (Martin Augustynek, Ondrej Adamec and David Micanik)

12.50 – 14.00 Lunch

14.00 – 14.45 SAP Talk (chair: Young Im Cho)
Luca Compagna: Formal Security Assessment of browser-based Security Standards at SAP

14.45 – 15.45 Session V: Networking (chair: Yuko Murayama)

- ETSeM: A Energy-aware, Trust-based, Selective Multi-path Routing Protocol (Manali Chakraborty and Nabendu Chaki)
- *[Weighted Energy Effcient Cluster Based Routing for Wireless Sensor Networks (Soumyabrata Saha and Rituparna Chaki)]*

15.45 – 16.10 Coffee Break

16.10 – 18.40 Session VI: Algorithms and Data Management (chair: Khalid Saeed)

- Hybrid Negative Selection Approach for Anomaly Detection (Andrzej Chmielewski and Slawomir T. Wierzchon)
- *[Spectral Clustering Based on k-nearest Neighbor Graph (Malgorzata Lucinska and Slawomir Wierzchon)]*
- A New Scale for Attribute Dependency in Large Database Systems (Soumya Sen, Anjan Dutta, Agostino Cortesi and Nabendu Chaki)
- Left-Right Oscillate Algorithm for Community Detection used in E-learning system (Katerina Slaninova, Jan Martinovic, Tomas Kocyan, Pavla Drazdilova and Vaclav Snasel)
- Plan and Goal Structure Reconstruction: an Automated and Incremental Method Based on Observation of a Single Agent (Bartlomiej Dzienkowski and Urszula Markowska-Kaczmar)
- Outlier Removal in 2D Leap Frog Algorithm (Ryszard Kozera and Jacek Tchorzewski)

20.00 -22.00 Social Dinner

Friday 28 September

9.00 – 10.00 Invited Tutorial (chair: Agostino Cortesi)
Young Im Cho: "Designing Smart Cities: Security Issues"

10.00 – 10.20: Coffee Break

10.20 –13.20 Session VII: System Models and Risk Assessment (chair: Yuko Murayama)

- A Business Process Modeling Notation Extension for Risk Handling (Bartosz Marcinkowski and Michal Kuciapski)
- Modeling Consumer Decision Making Process Using Triangular Norms (Agnieszka Jastrzebska and Wladyslaw Homenda)
- Neural Network Modeling of a Flexible Manipulator Robot (Rahma Boucetta and Mohamed Naceur Abdelkrim)
- P Systems for Traffic Flow Simulation (Jiri Dvorsky, Zbynek Janoska and Lukas Vojacek)
- Using Extended Raster File for Real Time Traffic Information Mining (Michal Radecky, Jan Martinovic, Dusan Fedorcak, Radek Tomis and Ivo Vondrak)
- A Comparative Study of Risk Assessment Methods, MEHARI CRAMM with a New Formal Model of Risk Assessment (FoMRA) in Information Systems (Imed El Fray)

13.20 – 14.20 Lunch

14.20 – 14.50 e-Gov Session (chair: Young Im Cho)

- A Study on Strategy Planning and Outcome of EA in the Public Sector (Jae Du Lee and Eun Ju Kim)

14.50 – 16.50 Session VIII: Algorithms and Data Management (chair: Nabendu Chaki)

- Tuning of a Knowledge-driven Harmonization Model for Tonal Music (Mariusz Rybnik and Wladyslaw Homenda)
- Efficient Processing the Music Notation (Tomasz Sitarek and Wladyslaw Homenda)
- On Spectral Partitioning of Co-authorship Networks (Vaclav Snasel, Pavel Kromer, Jan Platos, Milos Kudelka and Zdenek Horak)
- An Efficient Binary Playfair Algorithm using a 44 Playfair Key Matrix (Saswati Mukherjee, Ayan Lahiri, Samiran Chattopadhyay and Matangini Chattopadhyay)

16.50 – 17.00 Conclusions