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 analysts 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 Modified 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

- ETSeM: A Energy-aware, Trust-based, Selective Multi-path Routing Protocol (Manali Chakraborty and Nabendu Chaki)
- [Weighted Energy Efficient 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 (Agieszka 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 Fedoracak, 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