Welcome to

MobiSPC 2017
The 14th International Conference on Mobile Systems and Pervasive Computing

FNC 2017
The 12th International Conference on Future Networks and Communications

July 24 – 26, 2017
Leuven, Belgium

With support of
Hasselt University, Belgium & Acadia University, Canada
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FNC / MobiSPC
SYMPOSIA AND WORKSHOPS

MobiSPC  The 14th International Conference on Mobile Systems and Pervasive Computing
FNC    The 12th International Conference on Future Networks and Communications
BDNT  International Workshop on Big Data and Networks Technologies
BioNet International Workshop on Algorithms, Tools and new Frontiers on the use of Networks in Biology and Clinical Science
CSDI The 3rd International Workshop on Cyber Security and Digital Investigation
DPNoC The 4th International Workshop on the Design and Performance of Networks on Chip
EICM The 4th International Symposium on Emerging Inter-networks, Communication and Mobility
IoTNAT The 3rd International Workshop on Internet of Things: Networking, Applications and Technologies
SDNCC The 2nd International Workshop on Applications of Software-defined Networking in Cloud Computing
## PROGRAM AT A GLANCE

### MobiSPC 2017, FNC 2017 and Workshops

#### Program Time Slots

<table>
<thead>
<tr>
<th>Timing</th>
<th>Sunday 23 July 2017</th>
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<tbody>
<tr>
<td>16:00-18:00</td>
<td>Registration Room</td>
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<td>ROOM 1</td>
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<td>Erasmus 1</td>
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<td>Erasmus 3</td>
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<table>
<thead>
<tr>
<th>Timing</th>
<th>Monday 24 July 2017</th>
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<tbody>
<tr>
<td>08:00-08:30</td>
<td>Registration Room</td>
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<tr>
<td>09:00-10:00</td>
<td>Opening Ceremony</td>
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<tr>
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<td>Keynote Speaker I</td>
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<td>Erasmus 1</td>
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<td>Yves Vanrompay</td>
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<td>10:00-10:25</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-12:00</td>
<td>Technical Sessions (1)</td>
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<tr>
<td>12:00-13:25</td>
<td>LUNCH</td>
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<tr>
<td>13:30-15:00</td>
<td>Technical Sessions (2)</td>
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<tr>
<td>15:00-15:25</td>
<td>Coffee Break</td>
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<tr>
<td>15:30-17:30</td>
<td>Technical Sessions (3)</td>
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<tr>
<th>Timing</th>
<th>Tuesday 25 July 2017</th>
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<tr>
<td>09:00-10:00</td>
<td>Keynote Speaker II</td>
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<td>Danny Hughes</td>
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<td>10:00-10:25</td>
<td>Coffee Break</td>
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<td>10:30-12:00</td>
<td>Technical Sessions (4)</td>
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<td>12:00-13:25</td>
<td>LUNCH</td>
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<tr>
<td>13:30-15:00</td>
<td>Technical Sessions (5)</td>
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<tr>
<td>15:00-15:25</td>
<td>Coffee Break</td>
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<tr>
<td>15:30-17:00</td>
<td>Technical Sessions (6)</td>
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<tr>
<td>19:30-21:30</td>
<td>Banquet and Award Ceremony</td>
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<thead>
<tr>
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<th>Wednesday 26 July 2017</th>
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<tr>
<td>08:30-10:00</td>
<td>Technical Sessions (7)</td>
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<td>Coffee Break</td>
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End of Event
KEYNOTE I

From reactive to proactive systems: context-awareness, personalization and collaborative filtering

Dr. Yves Vanrompay

Institute of Mobility
Hasselt University, Belgium

Abstract:
Many current context-aware adaptive systems only react to the current situations and context changes as they occur. A major concern is that systems may respond too late and exhibit no proactivity related to future user needs. Since a prediction of those future needs might be wrong and the cost of adapting based on a wrong prediction can be high in terms of wasted resources and user annoyance, quality metrics for predicted context information are needed. Being able to assess the quality of the predicted context is a key requirement for applications to effectively use future context. First we present a context-aware middleware system which incorporates quality-aware predictor components. Then we focus on a context-aware and personalized spoken search system in which user preferences are represented as scores in modular ontologies. The scores are learned based on past user behavior and integrated in a knowledge base that is constructed by using Linked Open Data. Finally, in order to proactively recommend items taking into account the user search query, we combine this approach with a powerful collaborative filtering technique inspired by formal concept analysis. All together this presentation gives an overview of an evolution from purely reactive systems to systems that have the potential of being proactive and personalized, incorporating prediction, the Semantic Web and recommendation techniques.

About the Speaker:
Yves Vanrompay is doctor-researcher at the Institute of Mobility of the University of Hasselt. He is responsible for the valorization of research related to smart mobility, traffic safety and mobility patterns. He obtained his Ms. Informatics in 2003, Ms. Artificial Intelligence in 2004 and Bach. Philosophy in 2005 from the Katholieke Universiteit Leuven. From 2005 to 2011 he was a researcher in the Embedded and Ubiquitous Systems taskforce of the Distriinet research group in the department of computer science of the Katholieke Universiteit Leuven, leading to a PhD in the domain of context-awareness and prediction. Then he worked as research manager at the Mathematics Applied to Systems Laboratory of Ecole Centrale Paris. His main research interests include context-aware systems, ambient intelligence, Semantic Web technologies, personalization and self-adaptive applications. He was involved in several European projects and co-authored over 45 peer-reviewed publications.
KEYNOTE II

Taking the Internet of Things out of the Lab and into the Real World

Dr. Danny Hughes

Distributed Systems and Computer Networks
K. U. Leuven, Belgium

Abstract:
This talk will discuss the opportunities and challenges of commercialising Internet of Things (IoT) research. Its focus will be on experiences gained in bringing the MicroPnP IoT platform to market through VersaSense, a KU Leuven spin-off company that was founded in 2016. The talk begins with an overview of real world IoT challenges, followed by a technical description and demonstration of the MicroPnP platform, which lies at the core of the VersaSense product portfolio. The presentation then provides a view on the current state of the IoT market and concludes by suggesting directions for high impact research. The technical challenges and contributions discussed will crosscut the entire IoT stack, from the physical layer to distributed middleware.

About the Speaker:
Prof. Hughes is the Chief Technical Officer (CTO) of VersaSense, the creators of the world's first true plug-and-play Internet of Things platform. He is also a Professor with the Department of Computer Science at KU Leuven (Belgium), where he leads the Networked Embedded Software task force. Danny holds a PhD from Lancaster University (UK) and has since worked at the University of California at Berkeley (USA), the University of Sao Paulo (Brazil) and at Xi’an Jiaotong-Liverpool University (China). His research focuses on developing and securing the complete Internet of Things (IoT) software stack.
# DETAILED PROGRAM

## Sunday, July 23, 2017

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Room</th>
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<tbody>
<tr>
<td>16:00-18:00</td>
<td>Registration</td>
<td>Registration Room</td>
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## Monday, July 24, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
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<td>Registration</td>
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<tr>
<td>09:00 - 10:00</td>
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<td>10:00 - 10:25</td>
<td>Coffee Break</td>
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### Keynote I

*From reactive to proactive systems: context-awareness, personalization and collaborative filtering*

Yves Vanrompay, Institute of Mobility, Hasselt University, Belgium

**Session Chair:** Ansar-Ul-Haque Yasar, Hasselt University, Belgium

**Room:** Room 1

### Technical Sessions 10:30 - 12:00

#### MobiSPC Session S-1: Pervasive Computing

**Session Chair:** Eduardo Casilari, Universidad De Malaga, Spain

**Room:** Room 1

- Recognizing Grabbing Actions from Inertial and Video Sensor Data in a Warehouse Scenario  
  *Alexander Diete, Timo Sztyler, Lydia Weiland and Heiner Stuckenschmidt*
- Real-Time Traffic Data Smoothing from GPS Sparse Measures Using Fuzzy Switching Linear Models  
  *Zied Bouyahia, Hedi Haddad, Nafaa Jabeur and Stephane Derrode*
- Human behavior monitoring using a passive indoor positioning system: a case study in a SME  
  *Pedro E. Lopez-De-Teruel, Felix J. Garcia-Clemente, Oscar Canovas, Ruben Gonzalez and Jose A. Carrassco*
- Spatial Connector: Mapping Access Control Models for Pervasive Computing and Cloud Computing  
  *Ichiro Satoh*

#### FNC Session S-1: Software Defined Networks

**Session Chair:** Charles Yaacoub, Holy Spirit University of Kaslik, Lebanon

**Room:** Room 2

- A QoS-aware routing in SDN hybrid networks  
  *Chienhung Lin, Kuochen Wang and Guocin Deng*
- S6: a Smart, Social and SDN-based Surveillance System for Smart-cities  
  *Corrado Rametta, Gabriele Baldoni, Alfio Lombardo, Sergio Micalizi and Alessandro Vassallo*
- Software-defined Naming, Discovery and Session Control for IoT Devices and Smart Phones in the Constraint Networks  
  *Younchan Jung, Marnel Peradilla and Akanksha Saini*
### MobiSPC Session S-2: Internet of Things
**Session Chair:** Hedi Haddad, Dhofar University, Oman  
**Room:** Room 1

Decentralized Network Building Change in Large Manufacturing Companies towards Industry 4.0  
**Pasu Poonpakdee, Jarotwan Koivani and Chumpol Yangyai**  
Web-based cattle behavior service for researchers based on the smartphone inertial central  
**Olivier Debauche, Saïd Mahmoudi, Andriamasinoro Adriamandroso, Pierre Manneback, Jérôme Bindelle and Frédéric Lebeau**  
Smart Energy Utilities based on Real-Time GIS Web Services and Internet of Things  
**Reza Nourjou and Mehdi Hashemipour**

**Lunch Break**  
**Room:** Meeting Foyer

**Technical Sessions**  
**Room:** Meeting Foyer  
**Time:** 12:00 - 13:25

### MobiSPC Session S-3: Pervasive Computing
**Session Chair:** Nadhir Ben Halima, Taibah University, Saudi Arabia  
**Room:** Room 3

Distributed Localization for Participatory Sensing Systems  
**Anubhuti Garg and Amiya Nayak**  
A novel approach in detecting intrusions using NSLKDD database and MapReduce programming  
**Meryem Amar, Samira Douzi, Bouabid El Ouahidi and Mouad Lemoudden**  
Toward a Computational Model of Mood  
**Hoang Huu Son**

### FNC Session S-2: Future Systems
**Session Chair:** Kuochen Wang, National Chiao Tung University, Taiwan  
**Room:** Room 1

Packet key-based security system for the next generation LTE networks  
**Younchan Jung, Enrique Festijo and Akanksha Saini**  
Nice, Berlin, London - if every car had autonomous emergency braking system for forward collisions avoidance  
**Monika Dávideková**  
A New Approach on Communications Architectures for Intelligent Transportation Systems  
**Susana Isabel de Sousa, Fabio Gonçalves, Bruno Dias, Alexandre Santos, Maria João Nicolau, Antonio Costa, Joaquim Macedo, Oscar Gama and Bruno Ribeiro**

### BDNT Workshop
**Session Chair:** Yousef Farhaoui, Moulay Ismail University, Morocco  
**Room:** Room 3

Securing a Local Area Network by IDPS Open Source  
**Yousef Farhaoui**  
Integrating XML and Relational Data  
**Hassana Nassiri, Mustapha Machkour and Mohamed Hachimi**  
A Divided Latent Class analysis for Big Data  
**Abdallah Abarda, Yousef Bentaleb and Hassan Mharzi**  
Novel approach to pose invariant face recognition  
**Brahim Aksasse, Hamid Ouanan, Mohammed Ouanan**

**Coffee Break**  
**Room:** Meeting Foyer
### Technical Sessions 15:30 - 17:30

#### MobiSPC Session S-4: Enabling Technologies and Emerging Topics

**Session Chair:** Yang Zhang (yzhang9@ncsu.edu), NCSU, USA  
**Room:** Room 1

- Supporting Seamless Mobility for Real-Time Applications in Named Data Networking  
  *Maram Alajlan and Abdelfettah Belghith*
- Smart dissemination and exploitation mobile services for carnival events  
  *Zois Koukopoulos and Dimitrios Koukopoulos*
- Adaptive Trap Coverage in Mobile Sensor Networks  
  *Chia-Hsu Kuo, Tzung-Shi Chen and Siou-Ci Syu*
- UMAFall: A Multisensor Dataset for the Research on Automatic Fall Detection  
  *Eduardo Castilari, Jose Antonio Santoyo-Ramón and Jose Manuel Cano-Garcia*
- C2IoT: A framework for Cloud-based Context-aware Internet of Things services for smart cities  
  *Soufiane Faieq, Rajaa Saidi, Hamid Elghazi and Moulay Driss Rahmani*

#### FNC Session S-3: Communication Networks

**Session Chair:** Younchan Jung, Catholic university of Korea, Republic Of Korea  
**Room:** Room 2

- Automatic monitoring management for 5G mobile networks  
  *Alberto Huertas Celdran, Manuel Gil Pérez, Felix J. García Clemente and Gregorio Martinez Perez*
- A simulative model of a 5G Telco Operator Network  
  *Giuseppe Faraci and Alfio Lombardo*
- Link Adaptation for Maximizing MI of Hybrid Optical/RF Communication System  
  *Muhammad Nasir Khan, Abdul Rafay, Syed O. Gilani and Mohsin Jamil*
- CDNaaS Framework: TOPSIS as Multi-Criteria Decision Making for vCDN Migration  
  *Hatem Ibn-Khedher and Emad Abd-Elrahman*

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**End of Monday Technical Sessions**
**Tuesday, July 25, 2017**

### Keynote II  09:00 - 10:00

**Taking the Internet of Things out of the Lab and into the Real World**  
Danny Hughes, K. U. Leuven, Belgium  
**Session Chair:** Stéphane Galland, Université de Technologie de Belfort-Montbéliard, France  
**Room:** Room 1

### Coffee Break  10:00 - 10:25

**Room:** Meeting Foyer

### Technical Sessions  10:30 - 12:00

#### MobiSPC Session S-5: Internet of Things  
**Session Chair:** Farrukh Shahzad, Polestar Global, USA  
**Room:** Room 1

- Multiple Peer Chord Rings Approach for Device Discovery in IoT Environment  
  *Binh Minh Nguyen and Hong-Nhat Quoc Hoang*
- Design, Implementation and Testing of a Cost Function Based Scheduling Mechanism for a Water Management System  
  *Sajid Sheikh and Nadhir Ben Halima*
- Manhole-cover Shaped Antenna Design for Underground Facilities Monitoring System  
  *Eun-Hee Kim*

#### FNC Session S-4: Sensors and IoT  
**Session Chair:** Danny, danny.hughes@cs.kuleuven.be  
**Room:** Room 2

- Systematic Polar Codes for joint source-channel coding in wireless sensor networks and the Internet of Things  
  *Charles Yaacoub and Malak Sarkis*
- Monitoring system using web of things in precision agriculture  
  *Karim Fougghali, Karim Fatallah and Ali Frihida*
  *Awadh Gaamel, Tarek Sheltami, Anas Al-Roubaiey and Elhadi Shakshuki*

#### BioNet Workshop  
**Session Chair:** Giuseppe Tradigo, University of Calabria, Italy  
**Room:** Room 3

- Efficient data structures for mobile de novo genome assembly by third-generation sequencing  
  *Franco Milicchio and Mattia Prosperi*
- Using Graphs to Relate Patient’s Clinical and Geographical Data  
  *Pietro Guzzi, Mario Cannataro, Pierangelo Velttri*
- A new approach to disentangle genetic and epigenetic components on disease comorbidities: studying correlation between genotypic and phenotypic disease networks  
  *Giuseppe Tradigo, Raffaele Vaccia, Todd Manini, Victoria Bird, Travis Gerke, Pierangelo Velttri, Mattia Prosperi*
- eIMES 3D: An innovative medical images analysis tool to support diagnostic and surgical intervention  
  *Pasquale Iaquinta, Miriam Iusi, Luciano Caroprese, Salvatore Turano, Salvatore Palazzo, Francesco Dattola, Ivana Pellegrino, Pierangelo Velttri, Ester Zumpano*

### Lunch Break  12:00 - 13:25

**Room:** Meeting Foyer
Technical Sessions 13:30 - 15:00

MobiSPC Session S-6: Mobile Data Management & Cloud Computing
Session Chair: Pasu Poonpakdee, King Mongkut's Institute of Technology Ladkrabang, Thailand
Room: Room 1

Online Cloud-Based Battery Lifetime Estimation Framework for Smartphone Devices
Wasim Ahmed, Kwangman Ko and Seongjin Kim

Wen-Hwa Liao, Peng-Wen Chen and Shu-Chi Kuo

Towards Automated Capturing and Processing of User Feedback for Optimizing Mobile Apps
Frank Elberzhager and Konstantin Holl

FNC Session S-5: Optimization and Reconfiguration
Session Chair: Yves Yves, Hassselt University, Belgium
Room: Room 2

Integrating Correlation Acquisition with Location Optimization for Accurate Indoor Lightwave Robot Positioning
Chun-Chieh Liu, Jhe-Ren Cheng and Jen-Fa Huang

Optimizing Segment Routing using Evolutionary Computation
Vitor Pereira, Miguel Rocha and Pedro Sousa

Orchestrating Softwarized Networks with a Marketplace Approach
Salvatore D’Oro, Sergio Palazzo and Giovanni Schembra

EICM Symposium
Session Chair: Stéphane Galland, Université de Technologie de Belfort-Montbéliard, France
Room: Room 3

Using Twitter as source of traffic data - Concepts and experiences of the project AUSWEG
Christoph Engel, Stephan Magnus and Jan Krause

Towards A new Spam Filter Based on PV-DM (Paragraph Vector-Distributed Memory Approach)
Samira Douzi, Meryem Amar, Bouabid El Ouahidi and Hicham Laanaya

A Multi-Agent Case-Based Reasoning Architecture for Phishing Detection
Husayn Y. A. Abutair and Abdelfettah Belghith

On the use of Networks in Biomedicine
Eugenio Vocaturo, Pierangelo Veltri

Coffee Break 15:00 - 15:25
Room: Meeting Foyer

Technical Sessions 15:30 - 17:30

MobiSPC Session S-7: Mobile Systems and Applications
Session Chair: Stéphane Galland, Université de Technologie de Belfort-Montbéliard, France
Room: Room 1

Toward an Efficient Ambient Guidance for Transport Applications
Jean-Michel Ilie and Ahmed Chawki Chausiche

Enabling Tracks in Location-Based Smart Mobile Augmented Reality Applications
Rüdiger Pryss, Marc Schickler, Johannes Schobel, Micha Weißbach, Philip Geiger and Manfred Reichert

Automation Support for Mobile App Quality Assurance – A Tool Landscape
Susanne Braun, Frank Elberzhager and Konstantin Holl

Recommendation of Mobile Applications based on social and contextual user information
Hugo Ordoñez and Jose Armando Ordoñez
**FNC Session S-6: Web / Cloud Applications**
**Session Chair:** Basem Almadani, KFUPM, Saudi Arabia
**Room:** Room 2

Current State of the Cloud Computing Adoption – An Empirical Study in the Major Public Sector Organisations of Saudi Arabia  
*Majid Al-Ruiithe and Elhadj Benkhelifa*

Modern and Responsive Mobile-enabled Web Applications  
*Farrukh Shahzad*

A Memory Efficient Pattern Matching Scheme for Regular Expressions  
*Yeim-Kuan Chang and Ching-Hsuan Shih*

**End of Tuesday Technical Sessions**

**Banquet and Award Ceremony  19:30-22:00**

Banquet Room
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<td><strong>Session Chair:</strong> Yang Zhang, NCSU, USA</td>
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<td><strong>Room:</strong> Room 1</td>
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<tr>
<td>Impact of Projected Emission and Climate Changes on Air Quality in the U.S.: from National to State Level</td>
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<td>Yang Zhang, Kai Wang and Chinmay Jena</td>
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<td>Activity Recognition and Abnormal Behaviour Detection with Recurrent Neural Networks</td>
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<td>Damla Arifoglu and Abdelhamid Bouchachia</td>
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<tr>
<td>Homonoia: When your Car Reads your Mind</td>
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<td>Ahmad Bennakhi, Maytham Safar and Jafar Abdulrasoul</td>
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<tr>
<td>Helping the Performance Evaluation of an Agent Run-time Framework: the SARL Experience Index</td>
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<td>Stéphane Galland, Ansar-Ul-Haque Yasar, Elhadi Shakshuki, Nicolas Gaud</td>
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<tr>
<td><strong>FNC Session S-7: Future Technologies</strong></td>
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<td><strong>Session Chair:</strong> Tzung-Shi Chen, National University of Tainan, Taiwan</td>
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<td><strong>Room:</strong> Room 2</td>
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<tr>
<td>Secure Logging as a Service Using Reversible Watermarking</td>
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<tr>
<td>Abid Khan, Ayyaz Yaqoob, Kinza Sarwar, Mouzna Tahir and Mansoor Ahmed</td>
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<td>Data Distribution Service (DDS) based implementation of Smart Grid devices using ANSI C12.19 standard</td>
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<td>Basem Al-Madani and Hassan Ali</td>
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<td>Communication Technology for Users with Specific Learning Disabilities</td>
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<td>Fatima-Ezzahra Benmarrakchi, Jamal El Kafi and Ali Elhore</td>
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<td><strong>CSDI/IoTNAT/SDNCC Workshops</strong></td>
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<td><strong>Session Chair:</strong> Marc Körner, ICSI, USA</td>
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<td><strong>Room:</strong> Room 3</td>
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<tr>
<td>A Comprehensive Survey on Security in Cloud Computing</td>
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<td>Gururaj Ramachandra, Mohsin Iftikhar, Farrukh Aslam Khan</td>
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<td>Recommendation Technologies for IoT Edge Devices</td>
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<td>Alexander Felfernig, Seda Polat Erdeniz, Michael Jeran, Arda Akcay, Paolo Azzoni, Matteo Maiero, Charalampos Doukas</td>
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<td>Automated Anomaly Detection in Virtualized Services Using Deep Packet Inspection</td>
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<td>Marcel Wallschläger, Anton Gulenko, Florian Schmidt, Odej Kao, Feng Liu</td>
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<td>SOFTMon - Traffic Monitoring for SDN</td>
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<td>Marc Hartung, Marc Körner</td>
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<td><strong>Coffee Break</strong></td>
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<td><strong>Room:</strong> Meeting Foyer</td>
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**END of Event**