Welcome to

EUSPN 2016
The 7th International Conference on Emerging Ubiquitous Systems and Pervasive Networks

ICTH 2016
The 6th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare

September 19 – 22, 2016
London, UK

With support of
The Edge Hill University, United Kingdom
Acadia University, Canada & Hasselt University, Belgium
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### EUSPN / ICTH SYMPOSIA AND WORKSHOPS

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<td>The 7th International Conference on Emerging Ubiquitous Systems and Pervasive Networks</td>
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<td><strong>auICTH</strong></td>
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<td><strong>DaMIS</strong></td>
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<td><strong>EICN</strong></td>
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<td>The 3rd International Workshop on Privacy and Security in HealthCare</td>
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<td><strong>WoTBD</strong></td>
<td>The 2nd International Symposium on Web of Things and Big Data</td>
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<tr>
<td>Timing</td>
<td>Monday 19 September 2016</td>
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<td>16:00-18:00</td>
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<td>Tuesday 20 September 2016</td>
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<td>Registration</td>
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<td>19:30-22:00</td>
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Abstract
This talk will address the seamless integration and abstraction of Cyber Physical and Social Systems CPSS to support city management and minimising the incidence of natural and man-made disasters, and, x-events.

The enabling socio-technology is the secure semantic integration of physical infrastructures through pervasive Intent-of-Things, Open Data Services, and Participative Social Engagement Platforms to foster the vision of Mass-Scalable Smart Cyber-Physical-Social Eco-Systems providing on-demand services including helping protect humanity from itself. This requires a unified platform capable of providing abstraction from the complexities of embedded systems that are necessary for monitoring and control of the physical environment.

The essentially distributed and pervasive usage of such a platform and the need for processing huge amounts of data and yet be capable of providing a real-time user experience have to be underpinned by advancement in Big Data storage, transformation, correlation, deep learning and model building as well as by parallel computation and visualization. The User Experience would be critically dependent on self-adaptive interfaces and seamless point-of-decision support to enable faster and smarter human-machine response to complex scenarios and to learn from them to continuously refine the analytic models and explanations.

X-Events are always waiting in the wings to catch humanity by surprise; CPSS may prove all that humanity could ever have at its disposal to minimise their effects.

So what are we waiting for?....

This talk will address a number of enablers and barriers in mass-scale deployment of CPSS as well as ethical risks and possible safeguards and opportunities for socially-rooted, societally responsive and responsible innovation – accountability co-design of the future.

About the Speaker:
Dr. Atta Badii is the founding director of the Intelligent Systems Research Laboratory (ISR) and the European Inter-Disciplinary Centre of Excellence in Socio-Ethical Privacy-Preserving Video/Data- Analytics at the University of Reading UK, where he is a high ranking Professor of Secure Pervasive Technologies. Atta also holds “the highest designation of Honorary Senior Professor of System Engineering and Digital Innovation” at the Catholic University of Cordoba, Argentina. He has a track record of over 20 years of trans-disciplinary academic and industrial research contributions in systems engineering, rooted in the disciplines that contribute to socially responsible and inclusive innovation of security-privacy-aware ICT to serve pervasive-assistive technologies with significant application domains including i) Smart Cities and IoT, ii) Big Data, e-Learning and e-Government, iii) Cyber Security and Surveillance, iv) Cognitive Robotics for Care-Support, v) e-Health, Biomedical and Rehabilitation Engineering.
KEYNOTE II

A digital landscape underpinning the advent of Precision Medicine, a new paradigm for healthcare

Gugs Lushai
Life Sciences Healthcare Ltd, United Kingdom

Abstract

A new medical paradigm described as Precision Medicine (“PM”) is coming of age. PM is a hot topic in healthcare today and rooted in life sciences and medical technology developments. Precision medicine encompasses providing the best care for each patient by using insight from all the available actionable data. This is not treating each person with a ‘personalised’ therapy, but means systematically combining data to help make clinical decisions that improve patient outcomes. It is an approach to healthcare founded on emerging new abilities to class diseases as they impact a variable patient population. This ability is anchored by the capacity to handle increasingly large data sets targeted at understanding clinical pathways in much more detail. In this paper PM is reviewed alongside new and existing digital technologies able to transform the healthcare offered. Important insight is reviewed as to how to grasp those possibilities and benefits whilst appreciating some of the pitfalls to be avoided. This is against the global appreciation that healthcare is at least a decade behind other industries in the use of information communication technology. A conservative value for the PM market is $20 billion globally. This includes a market for tests, therapies and solutions that is expected to grow to $80 billion by 2020. More optimistic appraisals indicate a market 10 x greater.

About the Speaker

Dr. Gugs Lushai is the Chief Executive of Life Sciences Healthcare Ltd (a management consultancy); Former Managing Director of Medilink SW (Technology Network); Head of Medical Biotechnology for the UK Government, BIS and Program Director, Biotechnology and Medical Technology (BioMedical) for the South West RDA (SWRDA). A career spanning 24 years Gugs has been a BioMedical advisor for Industry, government, NHS, PSRE and academic organizations for the last 12 years. He has National and International networks across the US, S. America, Japan, India and China with a live rolodex of over 1400 Linked-In contacts and has been Chair for several influential cutting edge Industry groups including the South West of England Diagnostics Consortia. Gugs is central to steering business growth and strategic development for UK Organisations, SMEs, Corporate and Government in the Life Sciences and Medtech Industries. His focus has been on fast-tracking business development through obtaining capital and innovation funding and entering new markets. Gugs is currently engaged in strategic support/NED roles with Medilink SW and The Medtech Innovation Expo; The Genomics Analysis Centre (Systems Biology Platform commercialisation); iSeeU Global (ICT workflow efficiencies); Velocity RDT (Energy conservation) and the Science and Technology Facilities Council (Medical Tech Industry Liaison). Gugs has a life sciences Ph.D. from Imperial College, London, with 12 years of R&D and innovation development.
The University of Surrey in London
United Kingdom

CONFERENCES VENUE

www.surreyconferences.co.uk
# DETAILED PROGRAM

## Monday, September 19, 2016

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## Tuesday, September 20, 2016

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<td>08:00 – 12:00</td>
<td>Lower Concourse, Lecture Theatre Building</td>
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<tr>
<td>X-Events, Y-Futures: The World of Unforesee-ables, Undecide-ables and Manage-ables</td>
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<tr>
<td>Dr. Atta Badii, University of Reading, United Kingdom</td>
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<tr>
<td>Session Chair: Ansar-Ul-Haque Yasar, Hasselt University, Belgium</td>
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<tr>
<td>Room: Lecture Theatre E</td>
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<tr>
<td>Technical Sessions</td>
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<td>Lecture Theatre A</td>
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<td><strong>EUSPN Session S-1: Emerging Pervasive/Ubiquitous Technologies</strong></td>
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<td>Session Chair: Yacine Atif, University of Skovde, Sweden</td>
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<tr>
<td>Room: Lecture Theatre A</td>
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- A Firefly-Inspired Micro and Macro Clustering Approach for Wireless Sensor Networks
  Nafaa Jabeur
- Recognition of Activities of Daily Living from Topic Model
  Isibor Kennedy Ihianle
- Ubiquitous Citizen Programming
  Dave Mason
- Tools for modeling exemplary Network Infrastructures
  Peter Veselý, Vincent Karovič and Vincent Karovič Ml

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<th>Session S-1</th>
<th>Session Chair: Youna Jung, Virginia Military Institute, USA</th>
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- F2D: A location aware fall detection system tested with real data from daily life of elderly people
  Panagiotis Kostopoulos, Athanasios Kyritsis, Michel Deriaz and Dimitri Konstantas
- Acceptance of mobile mental health treatment applications
  Dennis Becker
- On-Line Blood Glucose Level Calculation
  Tomas Koutny, Michal Krcma, Josef Kohout, Petr Jezek, Jana Varnuskova, Petr Vcelak and Jan Strnadek
- Analyzing Hospital Readmissions Using Creatinine Results for Patients with Many Visits
  Ofir Ben-Assuli, Rema Padman, Moshe Leshno, Itamar Shabtai
Mining geostatistics to quantify the spatial variability of certain soil flow properties
Gerardo Severino, Maddalena Scarfato and Gerardo Toraldo

An Architecture for a Mobility Recommender System in Smart Cities
Sergio Di Martino and Silvia Rossi

Towards a Collaborative Filtering Framework for Recommendation in Museums: from Preference Elicitation to Group’s Visits
Davide Improta, Luca Russo and Silvia Rossi

Analysis of Eight Data Mining Algorithms for Smarter Internet of Things (IoT)
Farqan Alam, Rashid Mehmood, Iyad Katib and Aiaid Albeshri

Real world city event extraction from Twitter data streams
Yuchao Zhou, Suparna De and Klaus Moessner

**Lunch**

Room: Lower Concourse, Lecture Theatre Building

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**Technical Sessions**

**EUSPN Session S-2: Internet of Things / Privacy**

**Session Chair:** Michal Gregus, Comenius University, Slovakia

**Room:** Lecture Theatre A

- On Atomic Batch Executions in Stream Processing
  Krishnamurthy Vidyasankar
- Enhancing the Utilization of IoT Devices using Ontological Semantics and Reasoning
  Stefan Zander, Nicole Merkle and Matthias T. Frank
- A Review of Latest Web Tools and Libraries for State-of-the-art Visualization
  Farrukh Shahzad, Tarek R. Sheltami, Elhadi M. Shakshuki, Omar Shaikh
- A Privacy-aware Platform for Sharing Personal Health Information on Wearable Devices
  Kambiz Ghazinour, Wesley Delp, Jimmy Gross, Timothy Strawbridge, Ali Taheri Moghadam and Jake Tobin

**ICTH Session S-2**

**Session Chair:** Liam Peyton, University of Ottawa, Canada

**Room:** Lecture Theatre E

- Adults Use of ICT in Healthcare: The Persuasive Impact of Children
  Doug Vogel
- Assessing and improving EHRs data quality through a socio-technical approach
  Samuel Darko-Yawson and Gunnar Ellingsen
- Advanced Healthcare Services Enabled by a Computerized Pain Body Map
  Ellen Jaatun and Martin Gilje Jaatun
- HIPAA-Compliant Privacy Policy Language for e-Health Applications
  Youna Jung and Minsoo Kim

**DaMIS Workshop: Session S-2**

**Session Chair:** Francesco Piccialli, Salvatore Cuomo, University of Naples, FEDERICO II, Italy

**Room:** Lecture Theatre B

- Mimic visiting styles by using a statistical approach in a cultural event case study
  Salvatore Cuomo, Pasquale De Michele, Monica Pragliola and Gerardo Severino
- A numerical approach for assigning a reputation to users of an IoT framework
  Salvatore Cuomo, Pasquale De Michele, Ardelio Galletti and Giovanni Ponti
- Internet of Things, Blockchain and Shared Economy Applications
  Steve Huckle, Rituparna Bhattacharya, Dr. Martin White and Dr. Natalia Beloff
- Applying Mining Techniques to Analyze Vestibular Data
  Domenico Mirarchi, Giovanni Canino, Salvatore Cuomo, Claudio Petrolo, Giuseppe Chiarella, Pierangelo Veltri and Patrizia Vizza
- Geoblood: a web based tool for geo-analysis of biological data
  Giovanni Canino, Maria Grazia Scarpino, Domenico Mirarchi, Pietro Guzz, Giuseppe Tradigo, Pierangelo Veltri
Coffee Break 15:30 - 16:00
Room: Lower Concourse, Lecture Theatre Building

Technical Sessions 16:00 - 17:30

EUSPN Session S-3: Intelligent Traffic and Transportation Systems
Session Chair: Kambiz Ghazinour, Kent State University, USA
Room: Lecture Theatre A

- Novel Optimized Routing Scheme for VANETs
  Samira Harrabi, Ines Ben Jaafar and Khaled Ghedira
- Design And Comparison Of Freight Scheduling Algorithms For The Intelligent Control System
  Inna Minashina, Nikolay Ryabykh, Nikolay Kuznetsov, Feodor Pashchenko and Ekaterina Zakharova
- Internet Of Things Approach to Cloud-Based Smart Car Parking
  Yacine Atif, Jianguo Ding and Manfred A. Jeusfeld
- Lateral Control of an Unmaned Car Using GNSS Positionning in the Context of Connected Vehicles
  Alexandre Lombard, Xuguang Hao, Abdeljalil Abbas-Turki, Abdellah El Moudni, Stephane Galland, Ansar-Ul-Haque Yasar

ICTH Session S-3
Session Chair: Doug Vogel, Harbin Institute of Technology, China
Room: Lecture Theatre E

- Pervasive Business Intelligence: A new trend in Critical Healthcare
  Ana Pereira, Filipe Portela and Manuel Filipe Santos
- A Framework for Clustering Cardiac Patient’s Records Using Unsupervised Learning Techniques
  Muzamal Liaqat, Nazar Abbas and Bilal Mehboob
- Smart Safety & Health Care in Cities
  Jabbar Al-Dulaimi and John Cosmas
- Capturing, Annotating and Processing Practical Knowledge by using Decision Trees
  Tobias Weller and Maria Maleshkova

DaMIS Workshop: Session S-3
Session Chair: Francesco Piccialli, Salvatore Cuomo, University of Naples, FEDERICO II, Italy
Room: Lecture Theatre B

- Triadic motifs in the partitioned world trade web
  Antonio Maratea, Alfredo Petrosino and Mario Manzo
- A bound for the accuracy of sensors acquiring compositional data
  Ardelio Galletti and Antonio Maratea
- An overview of classification algorithms on IoT
  Ardelio Galletti, Salvatore Cuomo, Pasquale De Michele and Vittorio Di Somma
- V2V-EN – vehicle-2-vehicle elastic network
  Walter Balzano, Aniello Murano and Fabio Vitale
- A Formal Model for Autonomous Planning in High Performance Systems
  Flora Amato, Francesco Moscato, Antonino Mazzeo and Nicola Mazzocca
- Internet of Things and Cultural Heritage: where we are and what's the next?
  Angelo Chianese, Francesco Piccialli
**Wednesday, September 21, 2016**

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<td>10:00 - 11:00</td>
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<td><strong>A digital landscape underpinning the advent of Precision Medicine, a new paradigm for healthcare</strong>&lt;br&gt;Gugs Lushai, Life Sciences Healthcare Ltd, United Kingdom</td>
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<td><strong>Session Chair:</strong> Haroon Malik, Marshall University, USA</td>
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<td><strong>EUSPN Session S-4: Mobile Computing and Wireless Communications</strong></td>
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<td><strong>Session Chair:</strong> Krishnamurthy Vidyasankar, Memorial University, Canada</td>
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|               | Identifying the Effective Parameters for Vertical Handover in Cellular Networks Using Data Mining Techniques  
|               | **Nadine Kashmar, Mirna Atieh and Ali Haidar**                       |
|               | An Efficient Broadcasting Scheme in Mobile Ad-Hoc Networks           |
|               | **Mohammed Chekhar, Khalid Zine-Dine, Mohamed Bakhouya, Abdessadek Aaroud and My Driss El Ouadghiri** |
|               | Exploiting Caching, Proxy Re-Encryption, Incentives, and Wi-Fi Direct for Authorized Content Distribution  
|               | **Nikos Fotiou and George Polyzos**                                  |
|               | A Remote system for monitoring Auxiliary Data Center from Environmental threats with Lower Hardware Cost  
|               | **Lionel Nkenyere and Jong Wook Jang**                               |
|               | **ICTH Session S-4**                                                |
|               | **Session Chair:** Cristina Alexandru, University of Edinburgh, UK   |
|               | **Room:** Lecture Theatre E                                         |
|               | Exploiting Biomedical Web Resources: a Case Study                    |
|               | **Nicoletta Dessi and Barbara Pes**                                  |
|               | Health Wearables for Early Detection of Frailty Syndrome in Older Adults in Mexico: An Informed, Structured Process for the Selection of a Suitable Device  
|               | **Rogelio Bustamante-Bello, Gabriela Ruiz-Soto, Ricardo Ramirez-Mendoza, Roberto Avila–vázquez, Luis Montesinos-Silva and Julieta Noguez-Monroy** |
|               | Performance evaluation of server-side JavaScript for healthcare hub Server in Remote healthcare monitoring system  
|               | **Lionel Nkenyere and Jong Wook Jang**                               |
|               | Improving the Utilization of AAL Devices through Semantic Web Technologies and Web of Things Concepts  
|               | **Nicole Merkle and Stefan Zander**                                  |
|               | **auICTH Workshop**                                                 |
|               | **Session Chair:** Heiko Gewald and Philipp Brune, The Neu-Ulm University of Applied, Germany |
|               | **Room:** Lecture Theatre B                                         |
|               | Online Support for The Elderly – Why Service and Social Network Platforms Should Be Integrated  
|               | **Friederike Boll; Philipp Brune**                                   |
|               | Examining older adults’ enhanced use of eHealth                      |
|               | **Robert Rockmann; Heiko Gewald**                                   |
|               | Patient-centered information system to enhance patient experience for the elderly and provide strategic advantage for the provider  
|               | **Karoly Bozan**                                                     |
|               | Health Organizations’ Adoption and Use of Mobile Technology in France, the USA and UK  
|               | **Wendy Currie**                                                     |
| 12:30 - 13:45 | Lunch                                                                |
|               | **Room:** Lower Concourse, Lecture Theatre Building                  |
**DAPHNE Session**

**Session Chair:** DAPHNE Project Members  
**Room:** Lecture Theatre E

The DAPHNE Project  
*Tatiana Silva, Ángel Palomares Pérez, Javier Andrés Calvo, Gonzalo Baitáidor, Giulia Cinelli, Olga Kudrautseva, Lobstein T, Alberto Olmo*

Designing and Testing HealthTracker for Activity Recognition and  
*Javier Andrés, Gonzalo Baitáidor, Catherine Gibbons, Alberto Olmo*

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**Technical Sessions**  
**14:00 - 15:30**

**EUSPN Session S-5:** Ad hoc and Pervasive Networks  
**Session Chair:** Stéphane Galland, Université de Technologie de Belfort-Montbéliard, France  
**Room:** Lecture Theatre A

*Khelil Abdelkader and Beghdad Rachid*

A Novel Reaction Scheme against the MAC Layer Misbehavior in Mobile Ad Hoc Networks  
*Mohammed-Alamine El Houssaini, Abdessadek Aaroud, Ali El Hore and Jalel Ben-Othman*

Performance of GPRS and AOMDV in WSNs with Uncontrolled Mobility  
*Hosam Rowawy and AhmedBinsahaq*

Towards Monitoring the Water Quality Using Hierarchal Routing Protocol for Wireless Sensor Networks  
*Haroon Malik, Anthony Zwilski*

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**EICN Workshop:** Session S-1  
**Session Chair:** Nafaa Jabeur, German University of Technology, Oman  
**Room:** Lecture Theatre B

A Speculative Control Mechanism of Cloud Computing Systems based on Emergency Disaster Information using SDN  
*Masato Oguchi*

A Mobile Enterprise Solution for Mobile Teams: A Case Study for Front Desk Outsourcing Company in Saudi Arabia  
*Mohammed Alqahtani and Anthony Atkins*

IT integration and Patient Safety: the case of a software tool  
*Christo El Morr, Liane Ginsburg, Victor Nam, Susan Woollard and Bojay Hensen*

Integration of Big Data for Connected Car Applications Based on Tethered Connectivity  
*Jong-Wook Jang and Lionel Nkenyereye*

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**Coffee Break**  
**15:30 - 16:00**

**Room:** Lower Concourse, Lecture Theatre Building

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**Technical Sessions**  
**16:00 - 17:30**

**EUSPN Session S-6:** Intelligent Systems, Cloud and Applications  
**Session Chair:** Sarbjeet Singh, Panjab University, India  
**Room:** Lecture Theatre A

A Study On Feature Selection and Classification Techniques of Indian Music  
*Prafulla Kalapatapu*

Comparative Study of Fingerprint and Centroid Localization Protocol Using COOJA  
*Essa Q. Shahra, Tarek R. Sheltami, Elhadi M. Shakshuki*

Just a Smart Home or Your Smart Home – A Framework for personalized User Interfaces Based on Eclipse  
*Lukas Smirek, Gottfried Zimmermann and Michael Beigt*

Synergy of Services within SOA  
*Iryna Ivanochko, Michal Gregus, Oksana Urikova and Ihor Aileksiev*

Budget Constrained time and reliability optimization BAT algorithm for scheduling workflow applications in clouds  
*Navneet Kaur and Sarbjeet Singh*
ICTH Session S-5
Session Chair: Ellen Jaatun, St. Olav Hospital, University Hospital, Norway
Room: Lecture Theatre E

Big Social Data in Public Health: A Mixed-Methods Case Study of Sundhed.dk’s Facebook Strategy, Engagement, and Performance
Kjeld Hansen, Raghava Rao Mukkamala, Abid Hussain, Tor-Morten Grønli, Henning Langberg, Ravi Vatrapu
Considerations of interface efficiency in scaling up telehealthcare systems
Cristina Adriana Alexandru
Leveraging Cloud Computing for Systematic Performance Management of Quality of Care
Benjamin Eze, Craig Kuziemsky, Rubina Lakhani, Liam Peyton
Strategic Value of Cloud Computing in Healthcare organisations using the Balanced Scorecard Approach: A case study from Saudi Hospital
Fawaz Alharbi
A bottom up approach for synchronous user interaction design and workflow modelling
Rosaline Barendregt, Yngve Lamo, Fazle Rabbi

EICN Workshop: Session S-2
Session Chair: Haroon Malik, Marshall University, USA
Room: Lecture Theatre B

Video broadcasting services over SDN-NFV enabled networks: a prototype
Corrado Rametta, Giovanni Schembra, Marcello Natale Melita, Gabriele Baldoni, Sergio Micalizzi and Alessandro Vassallo
Integrating features for accelerometer-based activity recognition
Cagatay Berke Erdas, Isil Atasoy, Koray Acici and Hasan Ogul
Resurgery clusters in intensive care medicine
Ricardo Peixoto, Filipe Portela, Manuel Filipe Santos, António Abella, José Machado and Fernando Rua Martins
Finding User Groups in Social Networks Using Ant Cemetery
Waseem Shahzad and Sana Qambar

Banquet and Award Ceremony  19:30-22:00
Wates House Room
Thursday, September 22, 2016

Technical Sessions 08:30 – 10:00

GBD-TAC/PSCare Workshops
Session Chair: Ansar-Ul-Haque Yasar, IMOB, Hasselt University, Belgium
Room: Lecture Theatre A

A PageRank-based reputation model for VGI data
  Michele Melchiori, Carlo Lodigiani

Land sliding early warning prototype using MongoDB and Web of Things technologies
  Mohamed Omar Kebaili, Karim Foughali, Karim Fathallah, Ali Frihida

A Robust Authentication Scheme for Telecare Medicine Information System
  Abderrahim Abdellaoui, Youness Idrissi Khamlchi, Habiba Chaoui

WoTBD Workshop
Session Chair: Elhadi Shakshuki, Acadia University, Canada
Room: Lecture Theatre B

A QoS based Service Selection For Smart Cloud Access
  Aymen Elamraoui, Kaouthar Sethom

Automatic Categorization of Social Sensors Data
  Olivera Kotevska, Padi Sarala, Ahmed Lbath

Why Big Data? Towards a project assessment framework
  Filipe Portela, Luciana Lima, Manuel Santos

END of Event