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
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>TABLE OF CONTENTS</td>
<td>2</td>
</tr>
<tr>
<td>SYMPOSIA AND WORKSHOPS</td>
<td>3</td>
</tr>
<tr>
<td>PROGRAM AT A GLANCE</td>
<td>4</td>
</tr>
<tr>
<td>KEYNOTE I</td>
<td>5</td>
</tr>
<tr>
<td>KEYNOTE II</td>
<td>6</td>
</tr>
<tr>
<td>CONFERENCE VENUE</td>
<td>7</td>
</tr>
<tr>
<td>DETAILED PROGRAM</td>
<td>8</td>
</tr>
<tr>
<td>Event Code</td>
<td>Event Title</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
</tr>
<tr>
<td>EUSPN</td>
<td>The 7th International Conference on Emerging Ubiquitous Systems and Pervasive Networks</td>
</tr>
<tr>
<td>ICTH</td>
<td>The 6th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare</td>
</tr>
<tr>
<td>auICTH</td>
<td>The 2nd International Workshop on Adults Use of Information and Communication Technologies in Healthcare</td>
</tr>
<tr>
<td>DaMIS</td>
<td>International Workshop on Data Mining in IoT Systems</td>
</tr>
<tr>
<td>EICN</td>
<td>The 3rd International Symposium on Emerging Information, Communication and Networks</td>
</tr>
<tr>
<td>GBD-TAC</td>
<td>International Workshop on Geospatial Big Data - Trends, Applications, and Challenges</td>
</tr>
<tr>
<td>PSCare</td>
<td>The 3rd International Workshop on Privacy and Security in HealthCare</td>
</tr>
<tr>
<td>WoTBD</td>
<td>The 2nd International Symposium on Web of Things and Big Data</td>
</tr>
</tbody>
</table>
# PROGRAM AT A GLANCE

### EUSPN 2016, ICTH 2016 and Workshops Program Time Slots

<table>
<thead>
<tr>
<th>Timing</th>
<th>Monday 19 September 2016</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:00-18:00</td>
<td>Registration</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timing</th>
<th>Tuesday 20 September 2016</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-12:00</td>
<td>Registration</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>09:00-09:30</td>
<td>Coffee Break</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>09:30-10:00</td>
<td>Opening Ceremony</td>
<td>Lecture Theatre E</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>Keynote Speaker (Atta Badii)</td>
<td>Lecture Theatre E</td>
</tr>
<tr>
<td>11:00-12:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
<tr>
<td>12:30-13:45</td>
<td>LUNCH</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee Break</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timing</th>
<th>Wednesday 21 September 2016</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30-10:00</td>
<td>Coffee Break</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>Keynote Speaker (Gugs Lushai)</td>
<td>Lecture Theatre E</td>
</tr>
<tr>
<td>11:00-12:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
<tr>
<td>12:30-13:45</td>
<td>LUNCH</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Coffee Break</td>
<td>Lower Concourse, Lecture Theatre Building</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre E, Lecture Theatre B</td>
</tr>
<tr>
<td>17:30-19:30</td>
<td>Free</td>
<td></td>
</tr>
<tr>
<td>19:30-22:00</td>
<td>Banquet &amp; Award Ceremony</td>
<td>Wates House Room</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Timing</th>
<th>Thursday 22 September 2016</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-10:00</td>
<td>Room</td>
<td>Lecture Theatre A, Lecture Theatre B</td>
</tr>
<tr>
<td>10:00-11:00</td>
<td>Technical Sessions (7)</td>
<td>GBD–TAC/PSCare, WoTBD</td>
</tr>
</tbody>
</table>

| End of Event | |

KEYNOTE I

X-Events, Y-Futures:
The World of Unforesee-ables, Undecide-ables and Manage-ables

Dr. Atta Badii
Intelligent Systems Research Laboratory
University of Reading, United Kingdom

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.
CONFERENCE VENUE

The University of Surrey in London
United Kingdom
DETAILED PROGRAM

Monday, September 19, 2016

Registration  16:00-18:00
Room: Lower Concourse, Lecture Theatre Building

Tuesday, September 20, 2016

Registration  08:00 – 12:00
Room: Lower Concourse, Lecture Theatre Building

Coffee Break  09:00 - 09:30
Room: Lower Concourse, Lecture Theatre Building

Opening  09:30 - 10:00
Opening Ceremony
Room: Lecture Theatre E

Keynote I  10:00 - 11:00

X-Events, Y-Futures: The World of Unforesee-ables, Undecide-ables and Manage-ables
Dr. Atta Badii, University of Reading, United Kingdom

Session Chair: Ansar-Ul-Haque Yasar, Hasselt University, Belgium
Room: Lecture Theatre E

Technical Sessions  11:00 - 12:30

EUSPN Session S-1: Emerging Pervasive/Ubiquitous Technologies
Session Chair: Yacine Atif, University of Skovde, Sweden
Room: Lecture Theatre A

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 Karović and Vincent Karović Ml

ICTH Session S-1
Session Chair: Youna Jung, Virginia Military Institute, USA
Room: Lecture Theatre E

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 Krema, 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
**DaMIS Workshop: Session S-1**  
**Session Chair:** Francesco Piccialli, Salvatore Cuomo, University of Naples, FEDERICO II, Italy  
**Room:** Lecture Theatre B

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 Aaiad Albeshri*

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

---

**Lunch**  
**Time:** 12:30 - 13:45  
**Room:** Lower Concourse, Lecture Theatre Building

---

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

**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 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 Guzzi, 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, Fedor Pashchenko and Ekaterina Zakharova

Internet of Things Approach to Cloud-Based Smart Car Parking
Yacinne Atif, Jianguo Ding and Manfred A. Juesfeld

Lateral Control of an Unmanned Car Using GNSS Positioning 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, Ariello 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
Coffee Break 09:30 - 10:00
Room: Lower Concourse, Lecture Theatre Building

Keynote II 10:00 - 11:00
A digital landscape underpinning the advent of Precision Medicine, a new paradigm for healthcare
Gugs Lushai, Life Sciences Healthcare Ltd, United Kingdom
Session Chair: Haroon Malik, Marshall University, USA
Room: Lecture Theatre E

Technical Sessions 11:00 - 12:30

EUSPN Session S-4: Mobile Computing and Wireless Communications
Session Chair: Krishnamurthy Vidyasankar, Memorial University, Canada
Room: Lecture Theatre A
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 Nkenyereye 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 Dessì 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 Nkenyereye and Jong Wook Jang
Improving the Utilization of AAL Devices through Semantic Web Technologies and Web of Things Concepts
Nicole Merkle and Stefan Zander

aulICTH 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

Lunch 12:30 - 13:45
Room: Lower Concourse, Lecture Theatre Building
### DAPHNE Project Session 13:30 - 15:30

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

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

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

---

### 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

*ESA: an Efficient Self-deployment Algorithm for Coverage in Wireless Sensor Networks  
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 GPSR and AOMDV in WSNs with Uncontrolled Mobility  
Hosam Rowawy and Ahmed Binsahaq*

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

---

**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*

---

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

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

---

### 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*

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

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

*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

1. **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*

2. **Considerations of interface efficiency in scaling up telehealthcare systems**  
   *Cristina Adriana Alexandru*

3. **Leveraging Cloud Computing for Systematic Performance Management of Quality of Care**  
   *Benjamin Eze, Craig Kuziemsky, Rubina Lakhani, Liam Peyton*

4. **Strategic Value of Cloud Computing in Healthcare organisations using the Balanced Scorecard Approach: A case study from Saudi Hospital**  
   *Fawaz Alharbi*

5. **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

1. **Video broadcasting services over SDN-NFV enabled networks: a prototype**  
   *Corrado Rametta, Giovanni Schembra, Marcello Natale Melita, Gabriele Baldoni, Sergio Micalizzi and Alessandro Vassallo*

2. **Integrating features for accelerometer-based activity recognition**  
   *Cagatay Berke Erdas, Isil Atasoy, Koray Acici and Hasan Ogul*

3. **Resurgery clusters in intensive care medicine**  
   *Ricardo Peixoto, Filipe Portela, Manuel Filipe Santos, António Abelha, José Machado and Fernando Rua Martins*

4. **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
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 Fatallah, 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