

# Welcome to



## EUSPN 2017

The 8th International Conference on  
Emerging Ubiquitous Systems and  
Pervasive Networks



## ICTH 2017

The 7th International Conference on  
Current and Future Trends of  
Information and Communication  
Technologies in Healthcare

September 18 – 20, 2017  
Lund, Sweden

With support of

Lund University, Sweden  
Acadia University, Canada & Hasselt University, Belgium



# TABLE OF CONTENTS

TABLE OF CONTENTS .....	2
SYMPOSIA AND WORKSHOPS .....	3
PROGRAM AT A GLANCE .....	4
KEYNOTE I .....	5
KEYNOTE II .....	7
DETAILED PROGRAM .....	8

# **EUSPN / ICTH SYMPOSIA AND WORKSHOPS**

<b>EUSPN</b>	The 8th International Conference on Emerging Ubiquitous Systems and Pervasive Networks
<b>ICTH</b>	The 7th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare
<b>auICTH</b>	The 3rd International Workshop on Adults Use of Information and Communication Technologies in Healthcare
<b>CIM</b>	International Workshop on Connected & Intelligent Mobility
<b>DaMIS</b>	The 2nd International Workshop on Data Mining in IoT Systems
<b>EICN</b>	The 4th International Symposium on Emerging Information, Communication and Networks
<b>HiPIS</b>	International Workshop on Healthcare Interoperability and Pervasive Intelligent Systems
<b>IMH</b>	International Workshop on IoT, M2M and Healthcare
<b>PSCare</b>	The 4th International Workshop on Privacy and Security in HealthCare
<b>UDISH</b>	International Workshop on Universal Design for IoT Smart Health

# PROGRAM AT A GLANCE

## EUSPN 2017, ICTH 2017 and Workshops Program Time Slots

Timing	Sunday 17 September 2017			
16:00-18:00	Registration	Registration Room		
		ROOM 1	ROOM 2	ROOM 3

Timing	Monday 18 September 2017			
Starts 08:00	Registration	Registration Room		
09:00-10:00	Opening Ceremony Keynote Speaker I	Room 1 Boris Magnusson		
10:00-10:25	Coffee Break	Meeting Foyer		
10:30-12:00	Technical Sessions (1)	EUSPN-S1	ICTH-S1	UDISH
12:00-13:25	LUNCH	Meeting Foyer		
13:30-15:00	Technical Sessions (2)	EUSPN-S2	ICTH-S2	auICTH/PSCare
15:00-15:25	Coffee Break	Meeting Foyer		
15:30-17:30	Technical Sessions (3)	EUSPN-S3	ICTH-S3	HiPIS

Timing	Tuesday 19 September 2017			
		Room 1		
09:00-10:00	Keynote Speaker II	Sabine Koch		
10:00-10:25	Coffee Break	Meeting Foyer		
10:30-12:00	Technical Sessions (4)	EUSPN-S4	ICTH-S4	DaMIS-S1
12:00-13:25	LUNCH	Meeting Foyer		
13:30-15:00	Technical Sessions (5)	EUSPN-S5	ICTH-S5	DaMIS-S2
15:00-15:25	Coffee Break	Meeting Foyer		
15:30-17:30	Technical Sessions (6)	EUSPN-S6	EICN	IMH
19:30-21:30	Banquet and Award Ceremony	Banquet Room		

Timing	Wednesday 20 July 2017			
08:30-10:00	Technical Sessions (7)	EUSPN-S7	EUSPN-S8	CIM
	Coffee Break	Meeting Foyer		
	End of Event			

# KEYNOTE I

Middleware for the 21st Century - Challenges and Perspectives

**Dr. Boris Magnusson**

*Department of Computer Science*

*Lund University, Sweden*

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## Abstract

In the vision of Mark Weiser from 1991 almost every device we have is able to communicate and compute, and useful combinations of devices help us in our daily life, at work, in factories, at the hospital - everywhere and with little intrusion. In such a ubiquitous, but also dynamic, situation we clearly need to rearrange our devices, add new, or change their combined behaviour. Since the setup quickly becomes unique to each user there will be a need for customisation. This vision thus implies that our devices can be re-combined and arranged in new useful combinations as need change, by the user or at least without having to involve the supplier of the devices.

This vision raises a number of technical questions, beyond the basic communication abilities, that need to be addressed to make the vision become a practical reality. Among these are:

- How can we make it possible to combine devices in new situations, in ways that their creators never thought of?
- How do we make use of devices from different vendors, most likely adhering to different communication "standards", in the same configuration.
- How do we enable the end user, or someone close, to put together devices in new ways, or just add a new device and make it work with our existing collection of devices and configurations?
- How do we make configurations something that can be reused, shared, or traded?
- How do we make devices work together although they use different communication technologies, some of them yet to develop?
- How do we facilitate the end user to create user interfaces that match different needs and that interact with such configurations of devices?
- How do we handle security and integrity of such systems?
- How do we handle software upgrades of massive numbers of devices without driving the owner mad, and of configurations, without causing inconsistencies?

In this talk we will illustrate the issues at hand and possible solutions by putting forward the ideas and techniques used in the design of the Palcom middleware. We will also illustrate with concrete situations where Palcom has been used, primarily from e-health applications. Palcom was originally a result from an EU project, but has since been further developed to make advances in these areas.

## About the Speaker:

**Dr. Boris Magnusson** is a professor in Software at the Department of Computer Science, Lund University since 1999. He received an MSc of Engineering Physics in 1976 and a PhD in Computer Science in 1984, both from Lund University. After graduating he served as head of the Computer Science department, Lund University, for seven years, and has there served as scientific leader and established the group in Software Development and Environments.

European Conference on Object Oriented Programming as a scientifically leading conference in its field. He has served as conference chair, program chair and numerous times as pc-member for ECOOP and TOOLS - Technology of Object-Oriented Languages and Systems, as well as pc-member for ACM OOPSLA, and CC - Compiler Construction among others. Other field of his interest are Configuration Management where he served as program chair for SCM - System Configuration Management Symposium and pc-member for SCM as well as ICSE - International Conference on Software Engineering, ESEC - European Software Engineering Conference, and Agile development such as Extreme Programming (XP) and the application of Participatory Design (or Co-design). Besides research interests Professor Magnusson has taken active part in spreading new technologies to industry, through tutorials, presentations, industrial cooperation projects, and through teaching and developing the curriculum at Lund University.

Professor Magnusson's current research interests include ubiquitous and pervasive computing, also known as "Internet of Things", its implications for software architectures and its applications in different fields, in particular healthcare, home automation and robotics. This work has resulted in a platform for building IoT systems, PalCom, that originates from the EU project with the same name, and serves as an integration platform. He headed the recent national project "it-support for Advanced Care at Home" and is involved in several other eHealth initiatives. He is also director of the newly formed spin-off company itACiH AB.

# KEYNOTE II

ICT for Healthcare, Selfcare and Prevention – Challenges, Opportunities and Trends

**Dr. Sabine Koch**

*Health Informatics*

*Karolinska Institutet, Sweden*

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## **Abstract**

Information and communication technologies (ICTs) in healthcare have been around for many decades. Yet their potential is not fully exploited. This talk will give an overview over some areas within health informatics, specifically patient-centred information systems, decision support and health-enabling and ambient assistive technologies. The development within these areas will be discussed with special focus on lessons learned from past and current research in order to describe challenges, opportunities and trends.

## **About the Speaker**

Dr. Sabine Koch early research was in dental informatics, especially dental imaging and IT supported integrated care concepts for dental offices. She explored these concepts further and applied them for collaborative work using mobile tools for homecare of the aging population.

Since 2008, Dr. Sabine is the Strategic Professor of Health Informatics at Karolinska Institutet and the Director of HIC, the Health Informatics Centre. Since Autumn 2012, she is also Programme Director for our Global Master's Programme in Health Informatics, a joint programme with the Department of Computer and Systems Science at Stockholm University.

Dr. Sabine hold both a M.Sc. and a Ph.D. degree in Medical Informatics from Ruprecht-Karls University Heidelberg, Germany. She got into the field of medical informatics in 1988 which she five years later combined with research in human-computer interaction and she enjoys working in this inspiring cross-disciplinary field since then.

To drive our field forward, she is engaged in a number of activities both locally in Sweden and around the world, currently acting as:

- Treasurer of the International Medical Informatics Association (IMIA)
- Editor-in-Chief of Methods of Information in Medicine
- Associate Editor of Applied Clinical Informatics
- Member of the Editorial Board of the International Journal of Medical Informatics
- Board Member of Swedish ICT

Dr. Sabine strives for combining structure with flexibility and technology design with healthcare and consumer needs aiming to build the theoretical basis needed to fully understand the socio-technical environment in order to be able to enhance health service delivery.

# DETAILED PROGRAM

**Sunday, September 17, 2017**

**Registration 16:00-18:00**

**Room:** Registration Room

**Monday, September 18, 2017**

**Registration 08:00 – 8:30 & 10:00 – 12:00**

**Room:** Registration Room

**Opening 09:00 - 10:00**

Opening Ceremony

**Room:** Main Meeting Room

**Keynote I**

***Middleware for the 21st Century - Challenges and Perspectives***

Dr. Boris Magnusson, Lund University, Sweden

**Session Chair:** Ansar Yasar, Hasselt University, Belgium

**Room:** Main Meeting Room

**Coffee Break 10:00 - 10:25**

**Room:** Meeting Foyer

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

**EUSPN Session S-1: Adaptive Systems, Intelligent Computing and Applications**

**Session Chair:** Fatma Outay, Zayed University, UAE

**Room:** Room 1

All for One and One For All: Dynamic Injection of Situations in a Generic Context-Aware Application

*Riadh Karchoud, Philippe Roose, Marc Dalmau, Arantza Illarramendi and Sergio Ilarri*

Statistical Arabic Name Entity Recognition Approaches: A Survey

*Wael Etaiwi, Arafat Awajan and Dima Suleiman*

Towards A Generic Predictive-Based Plan Selection Approach for BDI Agents

*Hichem Baitiche, Mourad Bouzenada and Djamel Eddine Saidouni*

The Use of Hidden Markov Model in Natural Arabic Language Processing: A Survey

*Dima Suleiman, Arafat Awajan and Wael Al Etaiwi*

Towards Trajectory-Based Recommendations in Museums: Evaluation of Strategies Using Mixed Synthetic and Real Data

*María Del Carmen Rodríguez Hernández, Sergio Ilarri, Ramon Hermoso and Raquel Trillo-Lado*

**ICTH Session S-1**

**Session Chair:** Thomas E. Doyle, McMaster University, Canada

**Room:** Room 2

A Patient Identity Matching Service for Cloud-based Performance Management of Community Healthcare

*Benjamin Eze, Craig Kuziemsky, Liam Peyton*

Patient experiences with informational discontinuity of care: Bridging the gaps

*Serena Small, David Peddie, Christine Ackerley, Corinne Hohlb, Ellen Balka*

CTASS: a framework for contextualized travel behavior advice to cardiac patients

*Thomas E. Doyle, Michael J. Griffin, David M. Jensen, David J. Reardon, G. Scott Williams*



## **UDISH Workshop**

**Session Chair:** Nancy L. Russo and Jeanette Eriksson, Malmö University, Sweden

**Room:** Room 3

Research Lines to Improve Access to Health Instrumentation Design

*Javier Marin, Teresa Blanco, Jose J. Marin*

I'm in! Towards participatory healthcare of elderly through IOT

*Dimitrios Gkouskos, Jon Burgos, Nancy L Russo, Jeanette Eriksson*

Privacy by Design: Informed Consent and Internet of Things for Smart Health

*Yvonne O'Connor, Wendy Rowan, Laura Lynch, Ciara Heavin*

Internet of Things (IoT) enabled assistive care services: Designing for value and trust

*Suman Bhattacharya, David Wainwright, Jason Whalley*

## **Lunch**

**12:00 - 13:25**

**Room:** Meeting Foyer

## **Technical Sessions**

**13:30 - 15:00**

### **EUSPN Session S-2: Big Data and Big Data Science**

**Session Chair:** Feras Al-Obeidat, Zayed University, UAE

**Room:** Room 1

Modeling and Processing Big Data of Power Transmission Grid Substation Using Neo4j

*Arbër Perçuku, Daniela Minkovska and Lyudmila Stoyanova*

Big data security and privacy in healthcare: A Review

*Karim Abouelmehdi, Abderrahim Beni-Hssane, Hayat Khaloufi and Mostafa Saadi*

SMS Spam Detection using H2O Framework

*Dima Suleiman and Ghazi Al-Naymat*

The Impact of applying Different Preprocessing Steps on Review Spam Detection

*Wael Etaïwi and Ghazi Al-Naymat*

### **ICTH Session S-2**

**Session Chair:** Vicente Ferreira Lucena Junior, Federal Univeresity of Amazonas – UFAM, Brazil

**Room:** Room 2

A Big Data architecture for intra-surgical remaining time predictions

*Norman Spangenberg, Moritz Wilke and Bogdan Franczyk*

Using Goals and Indicators for Activity-based Process Integration in Healthcare

*Malak Baslyman, Daniel Amyot, Basmah Almoaber and El Mostafa Bouattane*

Breaking the Healthcare Interoperability Barrier by Empowering and Engaging Actors in the Healthcare System

*Mana Azarm, Chantal Backman, Craig Kuziemyky and Liam Peyton*

Classification of Asthma Severity and Medication Using TensorFlow and Multilevel Databases

*Quan Do, Haroon Malik, Son Tran and Jamil Chaudri*

### **aiICTH/PSCare Workshops**

**Session Chair:** Heiko Gewalt and Philipp Brune, The Neu-Ulm University of Applied, Germany

**Room:** Room 3

Towards An Application Architecture For A Smart Online Service Network Platform For The Elderly

*Philipp Brune and Robert Rockmann*

A Structured Analysis of Smartphone Applications to Early Diagnose Alzheimer's Disease or Dementia

*Nina Polzer and Heiko Gewalt*

Towards Composable Threat Assessment for Medical IoT (MIoT)

*Salaheddin Darwish, Ilia Nouretdinova, and Stephen Wolthusen*

Privacy preserving distributed computation of community health data

*Anders Andersen and Merete Saus*

## **Coffee Break**

**15:00 - 15:25**

**Room:** Meeting Foyer

**Technical Sessions****15:30 - 17:30****EUSPN Session S-3: Security, Privacy, and Trust****Session Chair:** Krishnamurthy Vidyasankar, Memorial University, Canada**Room:** Room 1

Fast Cloud-RSA Scheme for Promoting Data Confidentiality in the Cloud Computing

*Khalid El Makkaoui, Abdellah Ezzati and Abderrahim Beni Hssane*

CoLLIDE: CCloud Latency-based IDentification

*Vanessa Daza, Roberto Di Pietro, Flavio Lombardi and Matteo Signorini*

Spotting the Islamist Radical within: Religious Extremists Profiling in the United State

*Malek Al-Zewairi and Ghazi Al-Naymat***ICTH Session S-3****Session Chair:** Heiko Gewalt, The Neu-Ulm University of Applied, Germany**Room:** Room 3

Influence of Design Elements in Mobile Applications on User Experience of Elderly People

*Kalimullah Khan and Sushmitha Donthula*

Enrichment of association rules through exploitation of ontology properties – healthcare case study

*Eliot Bytyçi, Lule Ahmed and Francesca Lisi*

On the use of IoT and Big Data Technologies for Real-time Monitoring and Data Processing

*Youssef Nait Malek, Abdelhak Kharbouch, Hamza El Khoukhi, Mohamed Bakhouya, Vincenzo Deflorio, Moulay Driss**El Ouadghiri, Steven Latre and Chris Blondia*

A Location Technique Based on Hybrid Data Fusion used to Increase the Indoor Location Accuracy

*Walter Simões and Vicente Ferreira De Lucena Jr***HiPIS Workshop****Session Chair:** Filipe Portela, University of Minho, Portugal**Room:** Room 3

Step Towards Prediction of Perineal Tear

*Francisca Fonseca, Hugo Peixoto, Filipe Miranda, José Machado and António Abelha*

Predicting the need of Neonatal Resuscitation using Data Mining

*Ana Morais, Hugo Peixoto, Cecília Coimbra, António Abelha and José Machado*

Predicting Resurgery in Intensive Care - A data Mining Approach

*Ricardo Peixoto, Lisete Ribeiro, Filipe Portela, Manuel Filipe Santos and Fernando Rua Martins*

Towards of a Real-time Big Data Architecture to Intensive Care

*André Gonçalves, Filipe Portela and Manuel Filipe Santos*

Understanding Stroke in Dialysis and Chronic Kidney Disease

*Mariana Rodrigues, Hugo Peixoto, Marisa Esteves, José Machado and António Abelha***End of Monday Technical Sessions**

**Tuesday, September 19, 2017**

**Keynote II**

**09:00 - 10:00**

**ICT for Healthcare, Selfcare and Prevention – Challenges, Opportunities and Trends**

Dr. Sabine Koch, Karolinska Institutet, Sweden

**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**

**EUSPN Session S-4: Internet of Things**

**Session Chair:** Shafiq Ur Rehman, University of East London, UK

**Room:** Room 1

ProximiThings: Implementing Proxemic Interactions in the Internet of Things

*Carlos Cardenas and Antonio Garcia-Macias*

Living Function Resilient Service Using a Mock Living Lab and Real Living Labs: Development of Balcony-IoT and Handrail-IoT for Healthcare

*Yoshifumi Nishida and Koji Kitamura*

A Fog Computing Framework for Blackberry Supply Chain Management

*Zaynab Musa and Krishnamurthy Vidyasankar*

A Semantic-aware Framework for Service Definition and Discovery in Internet of Things Using CoAP

*Farzad Khodadadi and Richard Sinnott*

A Lightweight Semantic Web-based Approach for Data Annotation on IoT Gateways

*Mahmud Al-Osta, Ahmed Bali and Abdelouahed Gherbi*

**ICTH Session S-4**

**Session Chair:** Muhammad Mahtab Alam, Tallinn University of Technology, Estonia

**Room:** Room 2

Supporting process execution by interdisciplinary healthcare teams: Middleware design for IBM BPM

*Nihan Catal, Daniel Amyot, Wojtek Michalowski, Mounira Kezadri-Hamiaz, Malak Baslyman, Szymon Wilk and Randy Giffen*

A Systematic Literature Review Comparing Primary and Community Health Care Indicators and Measurement Frameworks

*Nour El Kadri and Liam Peyton*

A Quality Model for the Evaluation AAL Systems

*Kara Madjid, Olfa Lamouchi and Amar Ramdane Cherif*

**DaMIS Workshop: Session S-1**

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

**Room:** Room 3

SwiftRank: An Unsupervised Statistical Approach of Keyword and Salient Sentence Extraction for Individual Documents

*Htet Myet Lynn, Eunji Lee, Chang Choi and Pan-Koo Kim*

Prediction of bicycle counter data using regression

*Johan Holmgren, Sebastian Aspegren and Jonas Dahlström*

Analysis of a data-flow in a financial IoT system

*Salvatore Cuomo, Vittorio Di Somma and Federica Sica*

S&P 500 Forecasting and Trading Using Convolution Analysis of Major Asset Classes

*Panagiotis Papaioannou, Thomas Dionysopoulos, Lucia Russo, Francesco Giannino, Dietmar Janetzko and Constantinos Siettos*

Some remarks about a community open source Lagrangian pollutant transport and dispersion model

*Diana Di Luccio, Ardelio Galletti, Livia Marcellino and Raffaele Montella*

**Technical Sessions****13:30 - 15:00****EUSPN Session S-5: Emerging Pervasive/Ubiquitous Technologies****Session Chair:** Yoshifumi Nishida, National Institute of Advanced Industrial Science and Technology, Japan**Room:** Room 1

A Multimodal Approach to Measure the Levels of Distraction of Pedestrians using Mobile Sensing

*Sara Pizzamiglio, Usman Naeem, Shafiq Ur Rehman, Mhd Saeed Sharif, Hassan Abdalla and Duncan L. Turner*

A Framework for Collecting YouTube Meta-Data

*Haroon Malik and Zifeng Tiana*

Performance Evaluation of DV-Hop Localization Algorithm for Geographical Routing in Wireless Sensor Networks

*Abdelali Hadir, Khalid Zine-Dine, Jamal El Kafi, Mohamed Bakhouya and Driss El Ouadghiri*

Boycott based enhanced correction scheme for MAC layer misbehavior in wireless networks

*Mohamed El Fissaoui, Abderrahim Beni-Hssane and Mostafa Saadi***ICTH Session S-5****Session Chair:** Philipp Brune, The Neu-Ulm University of Applied, Germany**Room:** Room 2

Augmented Reality Based Brain Tumor 3D Visualization

*Qian Shan, Thomas E. Doyle and Reza Samavi*

Network Coding for Energy Efficient Transmission in Wireless Body Area Networks

*Sadaf Talha, Rizwan Ahmad, Adnan Khalid and Muhammad Alam*

Phonological Disorders in Children? Design and user experience evaluation of a mobile serious game approach

*Rui Neves Madeira***DaMIS Workshop: Session S-2****Session Chair:** Francesco Piccialli, Salvatore Cuomo, University of Naples, FEDERICO II, Italy**Room:** Room 3

An Effective Simulated Annealing for Influence Maximization Problem of Online Social Networks

*Shi-Jui Liu and Chun-Wei Tsai*

Spatio-Temporal Contextualization of Queries for Microtexts in Social Media

*Jae-Hong Park, O-Joun Lee, Joo-Man Han, Jason J. Jung, Luca Carratore, Francesco Piccialli*

Remarks on a computational estimator for the barrier option pricing in an IoT scenario

*Salvatore Cuomo, Vittorio Di Somma and Francesco Piccialli*

A Monitoring, Modeling and Decision Support System (DSS) for a Microalgae Production Plant based on Internet of Things Structure

*Serena Esposito, Antonio Cafiero, Francesco Giannino, Stefano Mazzoleni and Marcello Maria Diano*

A virtualized software based on the NVIDIA cuFFT library for image denoising: performance analysis

*Ardelio Galletti, Livia Marcellino, Raffaele Montella and Vincenzo Santopietro***Coffee Break****15:00 - 15:25****Room:** Meeting Foyer**Technical Sessions****15:30 - 17:30****EUSPN Session S-6: Intelligent Traffic and Transportation Systems I****Session Chair:** Mohamed Bakhouya, International University of Rabat, Morocco**Room:** Room 1

Mobile Agent Protocol based energy aware data Aggregation for wireless sensor networks

*Mohamed El Fissaoui, Abderrahim Beni-Hssane and Mostafa Saadi*

An improved remote user verification scheme in Wireless Body Area Networks

*Chaitanya Reddy, Aakriti Arya and Trupil Limbasiya*

Utilization of Virtual Reality in Education of Employees in Slovakia

*Monika Davidekova, Michal Mjartan and Michal Gregus*

## **EICN Symposium**

**Session Chair:** Yves Vanrompay, Hasselt University, Belgium

**Room:** Room 2

Enhanced 3D segmentation techniques for reconstructed 3D medical volumes: Robust and Accurate Intelligent System

*Shadi Alzubi, Yaser Jararweh, Mahmoud Al-Ayyoub and Mohammed Shehab*

An Empirical Evaluation of Intelligent Machine Learning Algorithms under Big Data Processing Systems

*Dima Suleiman, Malek Al-Zewairi and Ghazi Al-Naymat*

Patients' written reviews as a resource for public healthcare management in England

*Radoslaw Kowalski*

Evaluation of classification algorithms for banking customer's behavior using Naïve Bayes and Support Vector Machine under Apache Spark Data Processing Systems

*Wael Etaïwi, Mariam Biltawi and Ghazi Al-Naymat*

## **IMH Workshop**

**Session Chair:** Radosveta Sokullu, Abdullah Balci and Eren Demir, Ege University, Turkey

**Room:** Room 3

Effects of LTE Random Access Methods on Healthcare M2M Applications

*Abdullah Balci and Radosveta Sokullu*

An IoT-based greenhouse monitoring system with Micaz motes

*Mustafa Alper Akkaş and Radosveta Sokullu*

Smart Home Assistant for Ambient Assisted Living of Elderly People with Dementia

*Eren Demir, Erdem Köseoğlu, Radosveta Sokullu and Burhan Şeker*

Performance Analysis of End-to-End Sensor-to-Cloud Personal Living Platform

*Rossitza Goleva, Rumen Stainov, Nikola Kletnikov, Jugoslav Achkoski, Seferin Mirtchev and Ivan Ganchev*

GPS Signal Channel Modeling and Verification

*Olcay Yiğit, Havva Esra Bilişik, Eren Demir, Radosveta Sokullu and Korkut Yeğın*

## **End of Tuesday Technical Sessions**

## **Banquet and Award Ceremony**

**19:30-22:00**

Banquet Room

**Wednesday, September 20, 2017**

**Technical Sessions**

**08:30 – 10:00**

**EUSPN Session S-7: Intelligent Traffic and Transportation Systems II**

**Session Chair:** Stéphane Galland, UTBM, France

**Room:** Room 1

Cost Analysis of SDN/NFV Architecture over 4G Infrastructure

*Khaled Almustafa and Mamdouh Alenezi*

Bus arrival time prediction based on network model

*Marko Čelan and Marjan Lep*

Demand for Agent-Based Transportation Models & Social Behavioral Challenges

*Samar El-Amine, Stephane Galland, Ansar-UI-Haque Yasar and Abderraffiaa Koukam*

**EUSPN Session S-8: Emerging Systems**

**Session Chair:** Anders Andersen, UiT The Arctic University of Norway, Norway

**Room:** Room 1

Identifying Smartphone Users based on their Activity Patterns via Mobile Sensing

*M. Ehatisham-UI-Haq, Usman Naeem, Muhammad Azam and Shafiq Urre'Hman*

Identifying Major Tasks from On-line Reviews

*Feras Al-Obeidat and Bruce Spencer*

Analysis and Classification of Barriers and Critical Success Factors for Implementing a Cloud Data Governance Strategy

*Majid Al-Ruithe and Elhadj Benkhelifa*

**CIM Workshop**

**Session Chair:** Fatma Outay, Zayed University, UAE & Ansar-UI-Haque Yasar, Hasselt University, Belgium

**Room:** Room 3

A Deterministic Feedback Model for Safe Driving based on Nonlinear Principal Analysis Scheme

*Minsu Jeon, Eunjo Yang, Eunyoung Oh, Jeongkyu Park and Chan-Hyun Youn*

ConVeh: Driving Safely into a Connected Future

*Fatma Outay, Faouzi Kamoun, Ansar-UI-Haque Yasar, Elhadi Shakshuki and Samar El-Amine*

A Neural network approach to visibility range estimation under foggy weather conditions

*Hazar Chaabani, Faouzi Kamoun, Hichem Bargaoui, Fatma Outay and Ansar-UI-Haque Yasar*

**END of Event**