Welcome to

EUSPN 2019

The 10th International Conference on Emerging Ubiquitous Systems and Pervasive Networks

ICTH 2019

The 9th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare

November 4 – 7, 2019
Coimbra, Portugal

With support of

University of Coimbra, Hasselt University, Belgium
Acadia University, Canada

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EUSPN / ICTH
SYMPOSIA AND WORKSHOPS

EUSPN	The 10th International Conference on Emerging Ubiquitous Systems and Pervasive Networks
ICTH	The 9th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare
auICTH	The 5th International Workshop on Adults Use of Information and Communication Technologies in Healthcare
BDNT	The 4th International workshop on Big Data and Networks
CIM	The 3rd International Workshop on Connected & Intelligent Mobility
EICN	The 6th International Symposium on Emerging Information, Communication and Networks
IoT-T&A	The 3rd International workshop on Recent advances on Internet of Things: Technology and Application Approaches
FTAT	International Workshop on Future Trends in Assistive Technology
HiPIS	The 3rd International Workshop on Healthcare Interoperability and Pervasive Intelligent Systems
IWENC	International Workshop on Emerging Networks and Communications
PSCare	The 5th International Workshop on Privacy and Security in HealthCare

PROGRAM AT A GLANCE

EUSPN 2019, ICTH 2019 and Workshops
Program Time Slots

Timing		Monday 4 November 2019		
17:00 - 19:00		*Registration*	*Registration Room*	
			ROOM 1	ROOM 2	ROOM 3

Timing		Tuesday 5 November 2019		
Starts 08:30		*Registration*	*Conference Desk*	
09:00 - 09:30		*Opening Ceremony*	*Conference Room*	
09:30 - 11:00		Technical Sessions (1)	EUSPN–S1	ICTH–S1	auICTH/PSCare
11:00 - 11:25		**Coffee Break**	*Coffee Room / Meeting Foyer*	
11:30 - 12:30		*Keynote Speaker I*	***António Lindo da Cunha***	
12:30 - 13:25		**LUNCH**	*Meeting Foyer*	
13:30 - 15:00		Technical Sessions (2)	EUSPN–S2	ICTH–S2	IoT–T&A
15:00 - 15:25		**Coffee Break**	*Coffee Room / Meeting Foyer*	
15:30 - 17:30		Technical Sessions (3)	EUSPN–S3	ICTH–S3	IoT–T&A

		Wednesday 6 November 2019		
Timing				
Starts 09:00		*Registration*	*Conference Desk*	
09:30 - 11:00		Technical Sessions (4)	EUSPN–S4	ICTH–S4	EICN/BDNT
11:00 - 11:25		**Coffee Break**	*Coffee Room / Meeting Foyer*	
11:30 - 12:30		*Keynote Speaker II*	***Susana Sargento***	
12:30 - 13:25		**LUNCH**	*Meeting Foyer*	
13:30 - 15:00		Technical Sessions (5)	EUSPN–S5	ICTH–S5	IWENC
15:00 - 15:25		**Coffee Break**	*Coffee Room / Meeting Foyer*	
15:30 - 17:30		Technical Sessions (6)	EUSPN–S6	FTAT	IWENC
19:00 - 21:00		**Banquet and Award Ceremony**	**Banquet Room**	

		Thursday 7 November 2019		
Timing				
08:30 - 10:00		Technical Sessions (7)	HiPIS		EICN/CIM
		Coffee Break	*Meeting Foyer*	
		End of Event		

KEYNOTE I

The Role of Moving Things in Smart Environments

Susana Sargento
University of Aveiro, Portugal

Abstract

There has been a strong focus in more than 10 years on the development of vehicular network technology and mechanisms to build a reliable wireless mesh network to forward data packets in a multi-hop fashion between the vehicles and the Internet. However, vehicular networks can go much beyond cars: boats, drones (aerial and aquatic), trains, bicycles, and others. Moreover, the type of use cases that can be provided if all the moving elements can be connected is enormous, and go from self-driving and autonomous cars, to environmental monitoring in aquaculture, and rescue scenarios in remote areas.

This talk describes how moving networks can build new approaches for smart environments and how they can be used in distinct scenarios, to provide new applications for both citizens and industry in a myriad of areas.

About the Speaker:

Dr. Susana Sargento is a Full Professor in the University of Aveiro and a senior researcher in the Institute of Telecommunications, where she is leading the Network Architectures and Protocols (NAP) group (https://www.it.pt/Groups/Index/62). She received her PhD in 2003 in Electrical Engineering in the University of Aveiro (with 7 months stay in Rice University in 2000 and 2001). She joined the Department of Computer Science of the University of Porto between 2002 and 2004, and she was a Guest Faculty of the Department of Electrical and Computer Engineering from Carnegie Mellon University, USA, in August 2008, where she performed Faculty Exchange in 2010/2011.

Since 2002 she has been leading many national and international projects and worked closely with telecom operators and OEMs. She has been involved in several FP7 projects (4WARD, Euro-NF, C-Cast, WIP, Daidalos, C-Mobile), EU Coordinated Support Action 2012-316296 "FUTURE-CITIES", EU Horizon 2020 5GinFire, national projects, and CMU-Portugal projects (S2MovingCity, DRIVE-IN with the Carnegie Melon University). She has been TPC-Chair and organized several international conferences and workshops, such as ACM MobiCom, IEEE Globecom and IEEE ICC. She has also been a reviewer of numerous international conferences and journals, such as IEEE Wireless Communications, IEEE Networks, IEEE Communications. For more information (https://www.it.pt/Members/Index/501).

KEYNOTE II

Internet of Bodies (IoB) and The Impact in Health 4.0

António Lindo da Cunha
Instituto Pedro Nunes, Portugal

Abstract

Considering the technical aspects, it seems that the Internet of Bodies (IoB) is not more than an extension of Internet of Things (IoT), connecting bodies with the internet. But they became quite distinct if we join in the same sentence the words, human body, safety and security. For this reason it is natural to feel fear after imagine our body as a part of a pervasive network exposed to potential tech bugs and hackers control. Despite this natural feeling, the potential benefits to our health justifies to take IoB seriously.

It is a fact that we are living more years, but more is not synonymous of better if we do not preserve quality of life. That is why all the technology that can help living longer with quality are welcome even if it has risks associated.

The considerable improvements in digital health and medtech in the last years (enabled by new sensors, high performance computing, artificial intelligence algorithms, big data, among others), are offering the possibility to have better diagnostics and treatments, and as a consequence a life expectancy improvement. Nevertheless, to fully explore these enablers, it still missing a crucial step: a better connection between the human body and the systems. The Internet of Bodies approach could be this missing part.

Despite of it seems a future evidence, IoB approach opens a new type of legal, safety and security issues. In the next years we will assist to a tension between three different views, the pressure to have better health solutions, the available technology that can be used immediately, and the legal/ethical and security issues.

The presentation will have five different parts: 1) Presentation of the three generations of IoB; 2) How the IoB applications could contribute to the Health 4.0 concept, supporting the ageing process?; 3) What are the applications available now and what can we expect in the future?; 4) What are the enabling technologies behind IoB?; 5) What are the main roadblocks in the IoB innovation pathway?

About the Speaker

António Lindo da Cunha has a strong experience driving Innovation and R&D contracts, and leading technology transfer processes between research organisations and the business sector, for Health and Active and Healthy Ageing, creating tangible economic and social value to the organisations involved, especially for SMES.

He is Executive Director of the Automatics Lab of Instituto Pedro Nunes (IPN) and member of the board of Caritas Diocesana de Coimbra. In the last years he coordinated different initiatives related with Telemedicine, Hospital@home, Home-Care and Care-Home. He is member of the Ageing@Coimbra coordination group (European Reference Site for Active and Healthy Ageing, EIP AHA), IPN representative in EIT Health (Knowledge and Innovation Communities) initiative, and was member of the board and research director of the Critical Move S.A. a spin-off from IPN and Critical group. He is the coordinator of the "Technologies to Support the Quality of Life" innovation platform for Smart Specialization Strategy implementation (RIS3) in Portugal Centro Region.

DETAILED PROGRAM

Monday, November 4, 2019

Registration   **17:00-19:00**

Room: Registration Room

Tuesday, November 5, 2019

Registration   **Starts 08:30**

Room: Registration Room

Opening   **09:00 - 09:30**

Opening Ceremony
Room: Conference Room

Technical Sessions (1)   **09:30 - 11:00**

EUSPN Session S-1: Adaptive Systems, Intelligent Computing and Applications
Session Chair: Mohamad Khairi Ishak, Universiti Sains Malaysia, Malaysia
Room: Room 1

User-oriented cache deletion algorithm in a delayed update-tolerant web cache server for supporting a non-formal education
Yudai Kurashita and Kazumasa Takami

Data-driven prediction system for an environmental smartification approach to child fall accident prevention in a daily living space
Tsubasa Nose, Koji Kitamura, Mikiko Oono, Michiko Ohkura and Yoshifumi Nishida

Development of a Computer Player for Seejeh (A.K.A Seega, Siga, Kharbga) Board Game with Deep Reinforcement Learning
Ahmad Aljaafreh and Naeem Al-Oudat

Unmanned Aerial Vehicle in the Machine Learning Environment
Asharul Khan and Yaseen Al-Mulla

ICTH Session S-1
Session Chair: Patricia Macedo, Instituto Politécnico de Setúbal, Portugal
Room: Room 2

Data exchanges based on blockchain in m-Health applications
Antonio Clim, Razvan Daniel Zota and Radu Constantinescu

Fog IoT for Health: A new Architecture for Patients and Elderly Monitoring.
Olivier Debauche, Saïd Mahmoudi, Pierre Manneback and Abdessamad Assila

Platform to Support the Codification of Clinical Information According to the International Classification of Functioning, Disability and Health
Nelson Rocha

SmartCGMS as an Environment for an Insulin-Pump Development with FDA-Accepted In-Silico Pre-Clinical Trials
Martin Ubl and Tomas Koutny

auICTH/PSCare Workshops
Session Chairs: Heiko Gewald and Philipp Brune, The Neu-Ulm University of Applied Sciences, Germany
Room: Room 3

Why do I feel younger? – A critical view on cognitive age and IT adoption
    Maximilain Haug, Heiko gewald, Laura Burth
Evaluating the Usability and Usefulness of a Mobile Application for Training Visual Mnemonic Techniques in Participants with Subjective Cognitive Decline: An Exploratory Pilot Study
    Sebastian Hermes, Martin Lurz, Markus Böhm, Helmut Krcmar
As They Like It - Outcome of A User-Centric Design Approach For An Online Health- And Well-Being Service Platform For Transition-Agers
    Fabian Kaimer, Philipp Brune
Robust Hybrid Security Protocol for HealthCare Systems
    Ibrahim Albarki, Mohamed Rasslan, Ayman M. Bahaa-Eldin and Mohamed Sobh

Coffee Break	11:00 - 11:25

Room: Meeting Foyer

Keynote I	11:30 - 12:30

Internet of Bodies (IoB) and The Impact in Health 4.0
António Lindo da Cunha, Instituto Pedro Nunes, Portuga

Session Chair: Ansar Yasar, Hasselt University, Belgium
Room: Conference Room

Lunch Break	12:30 - 13:25

Room: Meeting Foyer

Technical Sessions (2)	13:30 - 15:00

EUSPN Session S-2: Emerging Systems
Session Chair: Ma'en Saleh, Tafila Technical University, Jordan
Room: Room 1

Validation of SDN policies: a property-based testing perspective
    Laura M. Castro and Nicolae Paladi
Context-aware Gossip in Ad hoc Vehicular Networks
    Ahmad Bennakhi, Abdulhusain Ben Nakhi and Abdullah Marafie
Study of Named Entity Recognition Methods in Biomedical Feld
    Anna Sniegula, Aneta Poniszewska-Maranda, Łukasz Chomatek
A Comparative Study of Predictive Approaches for Load Forecasting in Smart Buildings
    Sarah Hadri, Youssef Naitmalek, Mehdi Najib, Mohamed Bakhouya, Youssef Fakhri and Mohamed Elaroussi

ICTH Session S-2
Session Chair: Răzvan Daniel Zota, The Bucharest University of Economic Studies, Romania
Room: Room 2

A Systematic Review of Smart Cities' Applications to Support Active Ageing
    Nelson Rocha
Semantic Interpretation of the map with Diabetes-Related Websites
    Hongyi Shi, Marie-Christine Jaulent and Fabien Pfaender
A Platform of Services to Support Community-Dwelling Adults Integrating FHIR and Complex Security Mechanisms
    Nelson Rocha
Asistranto: An Assistive Educational Platform for the Promotion of the Interest in Autistic Children
    Roceli Lima, Liliana Passerino, Renato Ventura B. Henriques, Evandro Preuss and Magda Bercht

IoT-T&A Workshop S-1
Session Chair: Mukhdeep Singh Manshahia, Punjabi University Patiala, India
Room: Room 3

Analysis of robust weed detection techniques based on the Internet of Things (IoT)
  Fenil Dankhara, Kartik Patel and Nishant Doshi
A Survey of Smart City Infrastructure via Case study on New York
  Jigar Shah, Jinal Kothari, Nishant Doshi
A Review of Smart Parking Using Internet of Things (IoT)
  Sahil Rupani and Nishant Doshi
Voice-Controlled Autonomous Vehicle using IoT
  Sumeet Sachdev, Joel Macwan, Chintan Patel and Nishant Doshi
Smart cities-A case study of Porto and Ahmedabad
  Aniket Singh Solanki, Chintan Patel and Nishant Doshi
Open Communication Protocols for Building Automation Systems
  Karan Lohia, Yash Jain, Chintan Patel and Nishant Doshi

Coffee Break   **15:00 - 15:25**

Room: Meeting Foyer

Technical Sessions (3)   **15:30 - 17:30**

EUSPN Session S-3: Security, Privacy, and Trust
Session Chair: Laura M. Castro, Universidade da Coruna, Spain
Room: Room 1

Exploiting stack-based buffer overflow using modern day techniques
  Ştefan Sabin Nicula and Răzvan Daniel Zota
JavaNeighbors: Improving ChuckyJava's neighborhood discovery algorithm
  Léopold Ouairy, Hélène Le Bouder and Jean-Louis Lanet
Convolutional Neural Network Biometric cryptosystem for the protection of the Blockchain's private key
  Alfaisal Albakri and Chafic Mokbel
Secure Tilted-Rectangular-Shaped Request Zone Location-Aided Routing Protocol (STRS-RZLAR) for Vehicular Ad Hoc Networks
  Maen Saleh
A Conceptual Model for a Metric Based Framework for the Monitoring of Information Security Tasks' Efficiency
  Ferda Özdemir Sönmez

ICTH Session S-3
Session Chair: Roceli Lima, Instituto Federal de Educação do Amazonas, Brazil
Room: Room 2

A GraphQL approach to Healthcare Information Exchange withHL7 FHIR
  Suresh Kumar Mukhiya, Fazle Rabbi, Violet Ka I Pun, Adrian Rutle and Yngve Lamo
Energy-efficient Sensor-based EEG Features' Extraction for Epilepsy Detection
  Sarah Alhassan, Mohammed Aldammas and Adel Soudani
An Agent-based Approach to Physical Rehabilitation of Patients affected by Neurological Diseases
  David Vallejo, Santiago Schez-Sobrino, Javier Albusac, Jose Jesus Castro-Schez and Carlos Gonzalez-Morcillo

FMD and Mastitis Disease Detection in Cows Using Internet of Things (IoT)
  Shivank Vyas, Vipin Shukla and Nishant Doshi
Security and Privacy Issues in Cloud, Fog and Edge Computing
  Shalin Parikh, Dharmin Dave, Reema Patel and Nishant Doshi
A Survey on Blockchain Technology and its Proposed Solutions
  Dharmin Dave, Shalin Parikh , Reema Patel and Nishant Doshi
Smart Farming Using IoT, A Solution for Optimally Monitoring Farming Conditions
  Jash Doshi, Tirthkumar Patel and Santosh Kumar Bharti

End of Tuesday Technical Sessions

Wednesday, November 6, 2019

Registration   **Starts 09:00**

Room: Registration Room

Technical Sessions (4)   **09:30 - 11:00**

EUSPN Session S-4: Mobile Computing and Wireless Communications
Session Chair: Karim Zkik, International University of Rabat, Morocco
Room: Room 1

NSGA-II based Joint Topology and Routing Optimization of Mesh Networks with Flying Access Points
Sérgio Sabino and António Grilo
Anticipatory Session Management and User Plane Function Placement for AI-Driven Beyond 5G Networks
Sebastian Peters and Manzoor Ahmed Khan
Characterizing Instructional Leader Interactions in Social Learning Management System using Social Network Analysis
Orven Llantos and Maria Regina Justina Estuar
An enhancement of Greedy Perimeter Stateless Routing Protocol in VANET
Meriem Houmer and Moulay Lahcen Hasnaoui

ICTH Session S-4
Session Chair: Vicente Ferreira de Lucena Junior, Federal University of Amazonas, Brazil
Room: Room 2

A Conversional Agent in mHealth to Support People coping with Parkinson's Disease
Patricia Macedo, Carla Pereira, Pedro Mota and Rui Neves Madeira
Prevention-oriented ECG Teleconsulting That Involves Consumer Wearables: Exploration of Service Adoption Patterns and Institutional Impact
Michal Dolezel
A Behavior Normalization Method to Enable Comparative Understanding of the Elderly's Interaction with Consumer Products using a Behavior Video Database
Kei Hirano, Yoshifumi Nishida, Yusuke Miyazaki and Koji Kitamura
Competency Questions for Biomedical Ontology Reuse
Sabrina Azzi, Michal Iglewski and Véronique Nabelsi

EICN/BDNT Workshops
Session Chair: Ayman Atia, October University of Modern Sciences and Arts, Egypt
Room: Room 3

An Architecture for Providing Data Usage and Access Control in Data Sharing Ecosystems
Andres Munoz-Arcentales, Sonsoles López-Pernas, Alejandro Pozo, Álvaro Alonso, Joaquín Salvachúa, Gabriel Huecas
Personalized Micro Service Recommendation System for Online News
Marchela Asenova and Christos Chrysoulas
Manifesto for Improved Foundations of Relational Model
Witold Litwin
Distributed Trust & Reputation Models using Blockchain Technologies for Tourism Crowdsourcing Platforms
Bruno Veloso, Fátima Leal and Benedita Malheiro

Coffee Break   **11:00 - 11:25**

Room: Meeting Foyer

Keynote II   **11:30 - 12:30**
The Role of Moving Things in Smart Environments
Susana Sargento, University of Aveiro, Portugal

Session Chair: Nuno Varandas, F6S (Where Founders Grow Together), Portugal
Room: Conference Room

Lunch   12:30 - 13:25

Room: Meeting Foyer

Technical Sessions (5)   13:30 - 15:00

EUSPN Session S-5: Internet of Things
Session Chair: Johan Holmgren, Malmö University, Sweden
Room: Room 1

Trackify: A Robust System For Preserving Money Transactions
Kareem Mohamed, Belal Mohamed, Khaled Abdel-Hakeem, Amr Aziz, Mostafa Mostafa and Ayman Atia
Smart Home is Not Smart Enough To Protect You- Protocols, Challenges and Open Issues
Muneer Bani Yassein
IoT-Based Home and Community Energy Management System in Jordan
Naeem Al-Oudat, Ahmad Aljaafreh, Ma'En Saleh and Murad Alaqtash
Modeling and Graph Analysis for Enhancing Resilience in Smart Homes
Amir Modarresi and John Symons

ICTH Session S-5
Session Chair: Yoshfumi Nishida, Tokyo Institute of Technology, Japan
Room: Room 2

Obturator ring fracture detection using anteroposterior view x-ray
Pascal Damien, Ralph Bou Nader, Charles Yaacoub and Jean-Claude Lahoud
Predicting Lung Healthiness Risk Scores to Identify Probability of an Asthma Attack
Quan Do
Generative Adversarial Network (GANs) based training set enhancement for Stomach Adenocarcinoma Computed Tomography (CT) scan
Paawan Sharma, Kartik Patel, Sourabh Kuvera and Fenil Dankhara

IWENG Workshop S-1
Session Chair: Karim Zkik and Youssef Baddi, International University of Rabat, Morocco
Room: Room 3

Formal Verification of Confidentiality in DNSSEC and E-DNSSEC Protocols using pi-calculus and ProVerif
Kaouthar Chetioui, Ghizlane Orhanou, Hicham Bensaid, Ilias Cherkaoui and Youness Chibi
Mobile AdHoc networks for Intelligent Transportation System: Comparative Analysis of the Routing protocols
Hamza Zemrane, Youssef Baddi and Abderrahim Hasbi
Wavelength Assignment Vs. Wavelength Converter Placement in Wavelength-Routed Optical WDM Networks
Amiyne Zakouni, Hicham Toumi, Abdelali Saidi and Abdelfettah Mabrouk
Fuzzy Approach for Locating Sensors in Industrial Internet of Things
Sarah Elhamdi, Abdellah Abouabdellah, Mustapha Oudani and Anass Sebbar
Detection of Timestamps Tampering in NTFS using Machine Learning
Mohamed Alji and Khalid Chougdali
PSO Based Intrusion Detection A Pre-Implementation Discussion
Mohamed El Bekri and Ouafaa Diouri

Coffee Break   15:00 - 15:25

Room: Meeting Foyer

Technical Sessions (6)   **15:30 - 17:30**

EUSPN Session S-6: Transportation Systems & Big Data
Session Chair: Fatma Outay, Zayed University, UAE
Room: Room 1

Optimal placement of Charging Stations for Electric Vehicles in large-scale Transportation Networks
Henrik Fredriksson, Mattias Dahl and Johan Holmgren

Unique Message Authentication Security Approach based Controller Area Network (CAN) for Anti-lock Braking System (ABS) in Vehicle Network
Mohamad Khairi Ishak and Faizan Kaleem Khan

Efficiently Predicting Frequent Patterns over Uncertain Data Streams
Chuan-Ming Liu and Kuan-Teng Liao

FTAT Workshop
Session Chairs: Teodiano Freire Bastos, Universidade Federal do Espírito Santo, and Vicente de Lucena
              Jr, Federal University of Amazonas, Brazil
Room: Room 2

Evaluation of Task Workload and Intrinsic Motivation in a Virtual Reality Simulator of Electric-Powered Wheelchairs
Hamilton Rivera-Flor, Kevin A. Hernandez-Ossa, Berthil Borges Longo and Teodiano Bastos-Filho.

Evaluating the spasticity level during the rehabilitation process: a survey of traditional methods and a new trend
Isabela A. Marques, Camille M. Alves, Andressa R. Rezende, Marco Aurélio M. Silva, Robson G. da Cruz, Vicente F. Lucena Jr., Eduardo L. M. Naves

Integration Between ATIoT Architecture and Wearable Device Applied to Assistive Technologies
Carlos Solon Soares Guimarães Junior, Yves Ludovico Coelho, Wagner da Silva Silveira, Francisco de Assis Souza dos Santos, Renato Ventura Bayan Henriques, Teodiano Freire Bastos Filho and Carlos Eduardo Pereira

Device for Guide Hand Rehabilitation Routines based on Pressure Signals
Miguel Solis Peña and Ana Cecilia Villa Parra

The Effect of Cybersickness of an immersive wheelchair simulator
Débora Pereira Salgado, Thiago Braga Rodrigues, Eduardo Lázaro Martins Naves and Nialll Murray

The Raising Role of Virtual Reality in Accessibility Systems
Mauro Teófilo, Alvaro Lourenço, Juliana Postal, Vicente F. Lucena Jr

IWENG Workshop S-2
Session Chairs: Karim Zkik and Youssef Baddi, International University of Rabat, Morocco
Room: Room 3

Signaling Game-Inspired Model for Ubiquitous Security in VANETs
Abdelfettah Mabrouk, Amiyne Zakouni and Mohammed El Koutbi

Fuzzy Single-commodity model in Wireless Sensor Networks
Mustapha Oudani and Karim Zkik

Implementing Hy-IDS, Mobiles Agents and Virtual Firewall to Enhance the Security in IaaS Cloud
Hicham Toumi, Fatima Zahra Fagroud, Amiyne Zakouni and Mohamed Talea

New context-based node acceptance CBNA framework for MitM detection in SDN Architecture
Anass Sebbar, Karim Zkik, Mohammed Boulmalf and Mohamed Dafir Ech-Cherif El Kettani

A novel approach for improving MPLS VPN security by adopting the software defined network paradigm
Faycal Bensalah, Najib El Kamoun and Youssef Baddi

Inline detection of Denial of Service Attacks in Software Defined Networking using the Hotelling Chart
Faycal Bensalah, Najib El Kamoun and Mohammed-Alamine El Houssaini,

End of Wednesday Technical Sessions

Banquet and Award Ceremony   **19:00 - 21:00**

Banquet Room

Thursday, November 7, 2019

Technical Sessions (7)   **08:30 – 10:00**

HiPIS Workshop
Session Chair: Filipe Portela, Manuel Filipe Santos, University of Minho, Portugal
Room: Room 1

Towards PWA in healthcare
  Felipe Rêgo, Filipe Portela and Manuel Filipe Santos
Automatically detect diagnostic patterns based on clinical notes through Text Mining
  João Ribeiro, Júlio Duarte, Filipe Portela and Manuel Filipe Santos
Benchmarking Business Analytics Techniques in Big Data
  Cátia Oliveira, Tiago Guimaraes, Filipe Portela and Manuel Filipe Santos

EICN/CIM Workshops
Session Chair: Ferda Özdemir Sönmez, Middle East Technical University, Turkey
Room: Room 3

The COVCRAV Project: Architecture and Design of a Cooperative V2V Crash Avoidance System
  Fatma Outay, Hichem Bargaoui, Anouar Chemek, Faouzi Kamoun, Ansar Yasar
A Cloud-IOT Based Decision Support System for Potato Pest Prevention
  Karim Foughali, Karim Fathallah and Ali Frihida
Grey Wolf Algorithm Based Energy-Efficient Data Transmission in Internet of Things
  Mukhdeep Singh Manshahia

END of Event