

IEEE Technically Sponsored

5th Int Conference on Internet of Things, Systems, Management & Security (IOTSMS 2018)

Collocated with

5th Int Conference on Social Network Analysis, Management & Security (SNAMS 2018)

Valencia, Spain. Oct 15-18, 2018

PROGRAMME



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5th Int Conference on Internet of Things, Systems, Management & Security (IOTSMS 2018)
Collocated with
5th Int Conference on Social Network Analysis, Management & Security (SNAMS 2018)
Valencia, Spain. Oct 15-18, 2018

PROGRAMME

	Monday 15th Oct 2018	Tuesday 16th Oct 2018	Wednesday 17th Oct 2018	Thursday 18th Oct 2018
08:00 - 17:00	On site registration		On site registration	
08:30- 09:00				
09:00 - 9:30	Opening & Welcome		Keynote Speaker 2: Dr. Pablo Padilla Biological effects of electromagnetic waves and radiation in IoT environments	
9:30-10:00	Keynote speaker 1 : Dr. Claudia Wagner. Minorities in Social & Information Networks		Keynote Speaker 3: Dr. Jean-Marie Le Goff Graph search and knowledge extraction related to communities.	
10:00 - 10:30			Coffee break	
10:30 - 10:50	Coffee break		Coffee Break	
10:50-12:30	IOTSMS Session 1	SNAMS Session 1	IOTSMS session 3	SNAMS Session 3
12:30 - 13:30	Lunch		Lunch	
13:30 - 14:30	IOTSMS Session 2	DSEA-BDSN	ANLP Session 1	MCSMS
14:30 - 15:30			Panel Discussion	
15:30 -16:00	Coffee Break		Coffee break	
16:00 -17:00			ITCVT-FCST	
17:00-18:00	SNAMS Session 2	DSEA-BDSN	ANLP Session 2	IOTSMS Session 4
			5-7pm Social - Refreshments and light Snacks	
19:30 - 23:00	CONFERENCE DINNER			

Social Activity - Day visit to Art and Science City.

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Monday 15 th Oct 2018		
08:00 - 17:00	Onsite registration	
09:00 - 09:30	Opening & Welcome	
09:30 - 10:30	Keynote speaker 1: Dr. Claudia Wagner. Minorities in Social & Information Networks Chair: Dr. Christian Guetl	
10:30 - 10:50	Coffee break	
10:50 - 12:30	IOTSMS Session 1	Chair: Sally McClean and Felix Gomez Marmol
		<ul style="list-style-type: none"> • Cryptography for Security in IoT Jorge Martínez Carracedo, Michael Milliken, Pushpinder Kaur Chouhan, Bryan Scotney, Zhiwei Lin, Mark Shackleton, Ali Sajjad • Situation Assessment to Secure IoT Applications Pushpinder Kaur Chouhan, Sally McClean, Mark Shackleton • TRIS: a Three-Rings IoT Sentinel to protect against cyber-threats David Useche Pelaez, Daniel Diaz Lopez, Pantaleone Nespoli, Felix Gomez Marmol • A Dynamic Continuous Authentication Framework in IoT-Enabled Environments Pantaleone Nespoli, Mattia Zago, Alberto Huertas Celdrán, Manuel Gil Pérez, Félix Gómez Mármol, Félix J. García Clemente
10:50 - 12:30	SNAMS Session 1	Chair: Bernard Jansen and Ema Kusen
		<ul style="list-style-type: none"> • Inter-rater agreement for social computing studies Joni Salminen, Hind Almerexhi, Partha Dey, Bernard Jansen • Online Hate Interpretation Varies by Country, But More by Individual: A Statistical Analysis Using Crowdsourced Ratings Joni Salminen, Fabio Veronesi, Hind Almerexhi, Soon-Gyo Jung, Bernard Jansen • Who Will Like the Post? A Case Study of Predicting Likers Samin Mohammadi, Reza Farahbakhsh, Noel Crespi • Investigation of Emotion Exchange Motifs in Bot/Human Interactions during Riot Events Ema Kusen, Mark Strembeck
12:30 - 13:30	LUNCH	
		Chair: Andreas Seitz and Nabil El ioini
		<ul style="list-style-type: none"> • Interoperation of IoT platforms in confined Smart Spaces: the symbloTe Smart Space Architecture Gino Carrozzo, Matteo Pardi, Pietro Tedeschi, Giuseppe Piro, Mikolaj Dobski, Konrad Leszczyski, Alessandro Carminati and Matteo Di Fraia • SmartFridge: The Intelligent System that Controls your Fridge Juan Luis Torralbo-Muñoz, Sandra Sendra, Lorena Parra, Jaime Lloret

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13:30-15:30	IOTSMS Session 2	<ul style="list-style-type: none"> • Robonomics based on Blockchain as a principle of creating smart factories Aleksandr Kapitonov, Ivan Berman, Vitaly Bulatov, Lonshakov Sergey, Aleksandr Krupenkin • Trustworthy Orchestration of Container Based Edge Computing Using Permissioned Blockchain Nabil El ioini, Claus Pahl • A Two-Tier Edge Computing Based Model for Advanced Traffic Detection Abbas Kiani, Guanxiong Liu, Hang Shi, Abdallah Khreishah, Nirwan Ansari, Jo Young Lee, Chengjun Liu • Fog Computing as Enabler for Blockchain-Based IIoT App Marketplaces - A Case Study Andreas Seitz, Dominic Henze, Daniel Miehle, Bernd Bruegge, Jochen Nickles, Markus Sauer • Cloud Flat Access and Control For Plug and Play Devices Chen Rui, Zhu Hao, Li Hao, Zheng Jiangbin and Ma Chunyan
13:30 - 15:30	DSEA-BDSN	Chair: Osamu Tatebe and Florian Schmidt
		<ul style="list-style-type: none"> • Decision Tree Visualization for High-dimensional Numerical Data Dora Szücs, Florian Schmidt • An approach to data quality evaluation Janis Bicevskis, Zane Bicevska, Anastasija Nikiforova, Ivo Oditis • PPMDS: A Distributed Metadata Server based on Nonblocking Transactions Kohei Hiraga, Osamu Tatebe, Hideyuki Kawashima • On the Use of Log-based Model Checking, Clustering and Machine Learning for Process Behavior Prediction Joaquín Ezpeleta, Javier Fabra, Pedro Álvarez • A Document Clustering Approach for Automatic Building of Ontologies Smail Sellah, Vincent Hilaire • Child Maltreatment Forecast using Bigdata Intelligent Approaches Abdurazzag Aburas, Hilary Lin and Shreshtha Batshu
15:30 - 16:00	Coffee break	
16:00 - 18:00	SNAMS session 2	Chair: Victoria Ikoro and Daniel Suárez
		<ul style="list-style-type: none"> • Analysing Sentiments Expressed on Twitter by UK Energy Company Consumers Victoria Ikoro, Maria Sharmina, Khaleel Malik and Riza Batista-Navarro • CAS2VEC: Network-Agnostic Cascade Prediction in Online Social Networks Zekarias T. Kefato, Nasrullah Sheikh, Leila Bahri, Amira Soliman, Alberto Montresor, Sarunas Girdzijauskas • Computing Ranking and Dynamics in Social Networks Zineb Felfli, Roy George, Khalil Shujaee, Mohamed Kerwat • How well do Spaniards sleep? Analysis of Sleep Disorders based on Twitter mining Daniel Suárez, Oscar Araque, Carlos A. Iglesia • A Cloud-Driven Framework for a Holistic Approach to Semantic Annotation Oluwasegun Adedugbe, Elhadj Benkhelifa and Russell Campion
16:00 - 18:00	DSEA-BDSN	Chair: Shadi AlZu'bi and Emilio Sulis
		<ul style="list-style-type: none"> • A Study on Construction CALS Big-Data Service Jinuk Kim, Namgon Kim • The Taxonomy of Distributed Graph Analytics T. Ramalingeswara Rao, Pabitra Mitra, A.Goswami

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		<ul style="list-style-type: none"> • Using Bidirectional Long Short-Term Memory and Conditional Random Fields for Labeling Arabic Named Entities: A Comparative Study Sa'ad A. Alzboun, Saja Khaled Tawalbeh, Mohammad AL-Smadi and Yaser Jararweh • The impact of information system: a network analysis perspective Emilio Sulis, Angela De Lellis • LinguaKit: a Big Data-based multilingual tool for linguistic analysis and information extraction Pablo Gamallo, Marcos Garcia, César Piñeiro, Rodrigo Martínez-Castaño and Juan C. Pichel • A Novel Recommender System based on Apriori Algorithm for Requirements Engineering Shadi AlZu'bi, Bilal Hawashin, Mohammad ElBes, Mahmoud Al-Ayyoub
Tuesday 16th Oct		
08:00 - 17:00		Onsite registration
09:00 - 10:00		<p style="text-align: center;">Keynote speaker 2 – Dr. Pablo Padilla Biological effects of electromagnetic waves and radiation in IoT environments Chair: Jaime Lloret Mauri</p>
10:00 - 10:30		Coffee break
10:30 - 12:30	IOTSMS session 3	<p>Chair: Marco Tiloca and Argyro Mavrogiorgou</p> <ul style="list-style-type: none"> • Lightweight Group-Key Establishment Protocol for IoT Devices: Implementation and Performance Analysis Nico Ferrari, Teklay Gebremichael, Ulf Jennehag, Mikael Gidlund • SARDOS: Self-Adaptive Reaction against Denial of Service in the Internet of Things Marco Tiloca, Rikard Hoglund, Syafiq Al Atiiq • Capturing the Reliability of Unknown Devices in the IoT World Argyro Mavrogiorgou, Athanasios Kiourtis, Chrysostomos Symvoulidis, Dimosthenis Kyriazis • IoT Sensor to Detect Fraudulent use of Dyed Fuels in Smart Cities Javier Rocher, Miran Taha, Lorena Parra, Jaime Lloret • A sentiment analysis approach for evaluation of events in field of Cultural Heritage F. Clarizia, F. Colace, M. De Santo, M. Lombardi, F. Pascale • Dynamic 5G Slices for IoT applications with diverse requirements Evgenia Kapassa, Marios Touloupou, Panagiotis Stavrianos, Dimosthenis Kyriazis
10:30 - 12:30	SNAMS Session 3	<p>Chair: Poulain Rémy and Andre Rattinger</p> <ul style="list-style-type: none"> • Quantifying the diversity in users activity: an example study on online music platforms. Poulain Rémy, Tarissan Fabien • Reverse Engineering the Behaviour of Twitter Bots Bello Shehu Bello, Reiko Heckel, Leandro Minku • Investigating Helpfulness of Video Game Reviews on the Steam Platform Lukas Eberhard, Patrick Kasper, Philipp Koncar, Christian Gütl • Semantic and Topological Patent Graphs: Analysis of Retrieval and Community Structure Andre Rattinger, Jean-Marie Le Goff, Robert Meersman, Christian Guetl • Trollslayer: Crowdsourcing and Characterization of Abusive Birds in Twitter Alvaro Garcia-Recuero, Aneta Morawin, Gareth Tyson

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		<ul style="list-style-type: none"> • Social Business Process Model Recommender: An MDE approach Hadjer Khider, Slimane Hammoudi, Amel Benna and Abdelkrim Meziane
12:30 - 13:30		Lunch
13:30 - 14:40	MCSMS	Chair: Alessandro Randazzo and Aamir Akbar
		<ul style="list-style-type: none"> • Talos App: On-device machine learning using TensorFlow to detect Android malware Harshvardhan C Takawale, Abhishek Thakur • Performance Analysis of Memory Cloning Solutions in Mobile Edge Computing Alessandro Randazzo, Ilenia Tinnirello • Self-Adaptive and Self-Aware Mobile-Cloud Hybrid Robotics Aamir Akbar, Peter Lewis • An Approach to Enhancing Confidentiality and Integrity on Mobile Multi-Cloud Systems: The "ARIANNA" Experience Riccardo Di Pietro, Marco Scarpa, Maurizio Giacobbe and Antonio Puliafito • A Unified Key Distribution and Session Management Protocol for Mobile Video Surveillance Systems Mohammed Al-Saleh, Mohammad Alsmirat, Yaser Jararweh, Islam Obaidat
13:30 - 15:30	ANLP Session 1	Chair: Anna Wróblewska and Muhammad Bello Aliyu
		<ul style="list-style-type: none"> • Coreference annotation scheme and corpus for Lithuanian language Voldemaras Žitkus, Rita Butkien • A Classifier to Distinguish Between Cypriot Greek and Standard Modern Greek Hanna Sababa, Athena Stassopoulou • Multi-intent Hierarchical Natural Language Understanding for Chatbots Barbara Rychalska, Helena Gbska, Anna Wróblewska • LAS: Language Agnostic System for Question Answering Dominika Basaj, Barbara Rychalska, Anna Wróblewska • The Canonical Model of Structure for Data Extraction in Systematic Reviews of Scientific Research Articles Muhammad Bello Aliyu, Rahat Iqbal, Anne Jame • Multi-modal Biometric Recognition using Human Iris and Dynamic Pressure Variation of Handwritten Signatures Vinayak Bharadi, Bhavesh Pandya, Georgina Cosma
14:30 - 15:30		Panel Discussion
15:30 - 16:00		Coffee break
16:00 - 18:00	ANLP Session 2	Chair: Yérali Gandica and Markus Zopf
		<ul style="list-style-type: none"> • What's important in a text? An extensive evaluation of linguistic annotations for summarization Markus Zopf, Teresa Botschen, Tobias Falke, Benjamin Heinzerling, Ana Marasovi, Todor Mihaylov, Avinesh P.V.S, Eneldo Loza Mencía, Johannes Fürnkranz, Anette Frank • Population preferences through Wikipedia edits Yérali Gandica • Applying Deep Neural Networks to Named Entity Recognition in Portuguese Texts Ivo Fernandes, Henrique Lopes Cardoso, Eugénio Oliveira

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		<ul style="list-style-type: none"> • Exploring Spanish Corpora for Portuguese Coreference Resolution André Cruz, Gil Rocha, Henrique Lopes Cardoso • A Comparative Study of Polarity Lexicons to Identify Extreme Opinions Sattam Almatarneh, Pablo Gamallo • A Hybrid Model for Classification of Biomedical Data using Feature Filtering and a Convolutional Neural Network Sadegh Salesi, Ali Alani and Georgina Cosma
16:00 - 18:00	IOTSMS Session 4	<p>Chair: Mark T. Marshall and Boris Magnusson</p> <ul style="list-style-type: none"> • PalCom MIST: A Metaprotocol for Internet Systems of Things Boris Magnusson, Görel Hedin, Per Runeson • Using RBAC to Enforce the Principle of Least Privilege in Industrial Remote Maintenance Sessions Alexander Kern, Reiner Anderl • Increasing the flexibility of customized assembly systems with a modular control system Rainer Müller, Matthias Scholer, Martin Karkowski • Interacting with Heritage: On the Use and Potential of IoT within the Cultural Heritage Sector Mark T. Marshall • Cloud, Edge, or Both? Towards Decision Support for Designing IoT Applications Majid Ashouri, Paul Davidsson, Romina Spalazzese • Software Architecture for Microcontrollers in the Internet of Things. A case of study in agriculture José Fernando Mendoza, Hugo Ordóñez, Cristhian Figueroa and Armando Ordóñez • Cloud-Based Tools for Next-Generation Sequencing Data Analysis Qanita Bani Baker, Wesam Al-Rashdan and Yaser Jararweh
19:30 - 23:00	GALA DINNER	
Wednesday 17th Oct		
08:00 - 12:30	Onsite registration	
09:00 - 10:00	Keynote talk 3- Dr.Jean-Marie Le Goff Graph search and knowledge extraction related to communities.	

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Chair: Bernard Jansen		
10:00 - 10:30	Coffee break	
10:30 - 12:30	IOTSMS Session 5	Chair: Ahreum Shin and Md. Fasiul Alam
		<ul style="list-style-type: none"> • Role Assignment in IoT through Accelerated Hardware Md. Fasiul Alam, Stathes Hadjiefthymiades • CoAP Enhancement For a Better IoT Centric Protocol: CoAP 2.0 Marco Lobe Kome, Frédéric Cuppens, Nora Cuppens-Boulahia and Vincent Frey • Graphical Spark Programming in IoT Mashup Tools Tanmaya Mahapatra, Ilias Gerostathopoulos, Christian Prehofer, Shilpa Ghanashyam Gore • An Advanced Group Number Resetting & Refreshing Scheme for 3-D GM-MAC Protocol Yoonkyung Jang, Ahreum Shin, Myeongseung Han, Intae Ryoo • 3D-GM-MAC with a controlled mobile sink for Ad-hoc WSN Ahreum Shin, Myeongseung Han, Yoonkyung Jang, Intae Ryoo • Design of 28 Ghz Switched Beemforming Antenna System based on 4x4 Butler Matrix louati siwar, larbi talbi ,mohamed ouled el hassen • An Integrated Cloud -Based Healthcare System Lo'Ai Tawalbeh and Suhaila Alzahrany
10:30- 12:30	SNAMS-OSNT	Chair: Volker Mittendorf and Giannis Haralabopoulos
		<ul style="list-style-type: none"> • Mapping elites and anti-elite distinction in social media during German federal elections 2017 Volker Mittendorf, André Schmale • FactExtract: Automatic collection and aggregation of articles and journalistic factual claims from online newspaper Edouard Ngor SARR, Ousmane SALL, Aminata DIALLO • SnVera: A new algorithm for automation of Fact-Checking in web journalism context Edouard Ngor SARR, Ousmane SALL, Aminata DIALLO • Analyzing News from Electronic Media and Topics Discussed on Social Media Using Ontology Afshan Ejaz, Syed Komal Fatima, Quratulain Nizamuddin, Shakeel Khoja • A multivalued emotion lexicon created and evaluated by the crowd Giannis Haralabopoulos, Christian Wagner, Derek McAuley, Elena Simperl • An Architecture for Dependable Connectivity in OSGi-Enabled Dynamic Distributed Systems Ali Reza, Keivan Navaie, Richard. Nicholson. • A Supervised Machine Learning Approach for Events Extraction out of Arabic Tweets Mohammad Al-Smadi and Omar Qawasmeh
12:30 - 13:30	LUNCH	
13:30- 14:30	Keynote talk 4- Dr. Francisco Falcone Development in vehicular-aware IoT environments Chair:	
14:30 - 17:00	ITCVT-FCST	Chair: Umberto Montanaro and Carlos Serrão
		<ul style="list-style-type: none"> • IoT Grid Alignment Assistant System for Dynamic Wireless Charging of Electric Vehicles Ahmad Kobeissi, Francesco Bellotti, Riccardo Berta and Alessandro De Gloria Ahmad Kobeissi, Francesco Bellotti, Riccardo Berta and Alessandro De Gloria

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		<ul style="list-style-type: none"> • Multi-agent simulation of road traffic in MATSim with an alternative scoring function Youssef Inedjaren - Mohamed Maachaoui - Besma Zeddini - Jean-Pierre Barbot Youssef Inedjaren - Mohamed Maachaoui - Besma Zeddini - Jean-Pierre Barbot • Exploring a New Transport Protocol for Vehicular Environments Augustine Ezenwigbo, Vishnu Vardhan Paranthaman, Ramona Trestian, Glenford Mapp, Fragkiskos Sardis Augustine Ezenwigbo, Vishnu Vardhan Paranthaman, Ramona Trestian, Glenford Mapp, Fragkiskos Sardis • On a fully self-organising vehicle platooning supported by cloud computing Umberto Montanaro, Saber Fallah, Mehrdad Dianati, David Oxtoby, Tom Mizutani, Alexandros Mouzakitis Umberto Montanaro, Saber Fallah, Mehrdad Dianati, David Oxtoby, Tom Mizutani, Alexandros Mouzakitis • Naïve Bayesian and Fuzzy C-means Algorithm for Mobile Malware Detection Precision Abdul Razaque, Zhou Xihao, Wei Liangjie, Muder Almiani, Yaser Jararweh, Meer Jaro Khan • Wi-Fi network testing using an integrated Evil-Twin framework André Esser, Carlos Serrão • Using Android Devices as Mobile Extensible HMIs Michiel Willocx, Jan Vossaert, Vincent Raes and Vincent Naessens • INSTRUCT: A Clustering Based Identification of Valid Communications in IoT Networks Mohd Saalim Jamal, Venkata Keerthy S, Hideya Ochiai, Hiroshi Esaki, Kotaro Kataoka • Connected, Autonomous and Electric Vehicles: The Optimum Value for a Successful Business Model Sam Toglaw, Moayad Aloqaily and Ala Abu Alkheir
14:30 – 17:00	DTL	<p>Chair: Zekaris T. Kefato and Roy George</p> <ul style="list-style-type: none"> • Using a fully connected convolutional network to detect objects in images Alexey Alexeev, Yuriy Matveev, Georgy Kukharev • Detecting Knowledge Artifacts in Scientific Document Images - Comparing Deep Learning Architectures Mohamed Kerwat, Roy George, Khalil Shujaee • Automated segmentation on the entire cardiac cycle using a deep learning work-flow Nicolò Savioli, Miguel Silva Vieira, Pablo Lamata, Giovanni Montana • Handwriting Styles: Benchmarks and Evaluation Metrics Omar Mohammed, Gerard Bailly, Damien Pellier • Clearing noisy annotations for computed tomography imaging Roman Khudorozhkov, Aleksander Koriagin, Alexey Kozhevin • Transferable Hmm Trained Matrices for Accelerating Statistical Segmentation Time Shadi Alzu'bi, Sokyna Al-Qatawneh, Mohammad Alsmirat • Semi-Supervised Heterogeneous Information Network Embedding for Node Classification using 1D-CNN Nasrullah Sheikh, Zekaris T. Kefato, Alberto Montresor • Determine Bipolar Disorder Level from Patient Interviews Using Bi-LSTM and Feature Fusion Maad Ebrahim, Mahmoud Al-Ayyoub, Mohammad Alsmirat
17:00-19:00	Coffee, Tea and Refreshments (Social)	

Thursday
18th Oct

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PROGRAMME

SOCIAL ACTIVITY and NETWORKING

SNAMS CONFERENCE TOPICS OF INTEREST INCLUDE

SYSTEMS & INFRASTRUCTURE

Systems and algorithms for social search
Infrastructure support for social networks and systems
Dynamics and evolution patterns of large and complex networks
Social properties in systems design
Learnings from operational social networks
Data Collection
Big Data and Social Paradigms

ALGORITHMS AND MODELS

Deep Learning and Knowledge Discovery.
Measurement and analysis of social and crowdsourcing systems
Benchmarking, modeling, performance and workload characterization
Modeling Social Networks and behavior
Management of social network data
Streaming algorithms for social data
Knowledge and innovation networks
Methods for social and media analysis
Models for network data
Network analysis in human and social sciences
Information propagation and assimilation in social networks
Data mining and machine learning in social systems

APPLICATIONS

Novel social applications and systems
Transient OSNs (e.g. Snapchat)
Special purpose OSNs (e.g., Instagram, Vine)
Communities in social networks
Collaboration networks
New models of advertising and monetization in social networks
Mobile advertising on OSNs
Network visualization
Social networks and online education
Sentiment analysis on OSNs
Multilingual social networks
Social networks as agents of societal change

PRIVACY & SECURITY

Privacy and security in social systems
Trust and reputations in social systems
Detection, analysis, prevention of spam, phishing, and misbehavior in social systems

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IOTSMS CONFERENCE TOPICS INCLUDE

Emerging concepts of IoT Systems
Architectures of IoT systems
Machine-to-Machine Communication and IoT
Modeling of IoT applications
SDN and NFV support for IoT applications and Systems
Fog and Edge support for IoT Applications
5G support for IoT Applications
IoT for Smart Cities
Energy management in IoT
Design methodologies for IoT
Novel services and applications of IoT to facilitate environmental responsibility
Green by Internet of Things
IoT and Social benefits/impact
IoT Economics and Business Models
Emerging Internet of Things business models and process changes
Communication systems and network architectures for the IoT
IoT and Data Management
Security and privacy of IoT
Reliability of IoT
Disaster recovery in IoT
Applications of Internet of things
Emerging applications and interaction paradigms for everyday citizens
Big data and IoT
Self-organizing IoT
Cloud Computing and IoT
IoT and sustainable Growth

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WORKSHOPS

The 6th International workshop on Big Data and Social Networking Management and Security (BDSN 2018)

<http://emergingtechnet.org/BDSN2018/>

The Second International Workshop on Data Science Engineering and its Applications (DSEA 2018)

<http://emergingtechnet.org/DSEA2018/>

The Fourth International Workshop on Online Social Networks Technologies(OSNT 2018)

<http://emergingtechnet.org/OSNT2018/default.php>

The Fourth International Workshop on Mobile Cloud Computing systems, Management, and Security (MCSMS 2018)

<http://emergingtechnet.org/MCSMS2018/>

The First International Workshop on Intelligent Transportation and Connected Vehicles Technologies (ITCVT 2018).

<http://emergingtechnet.org/ITCVT2018/index.php>

The First International Symposium on Future Cyber Security Technologies (FCST 2018)

<http://emergingtechnet.org/FCST2018/>

The Second International Workshop on Advances in Natural Language Processing (ANLP 2018)

<http://emergingtechnet.org/ANLP2018/default.php>

The First International Workshop on Deep and Transfer Learning (DTL 2018)

<http://emergingtechnet.org/DTL2018/default.php>

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IOTSMS COMMITTEE

General Co-Chairs:

* Jaime Lloret Mauri, Universidad Politécnica de Valencia, Spain

* Elhadj Benkhelifa, Staffordshire University, UK.

Technical Program Co-Chairs:

* Syed Hassan Ahmed, University of Central Florida, USA.

* Cristina Cervelló-Pastor, Universitat Politècnica de Catalunya, Spain.

* Ammar Rayes, Cisco Systems, USA.

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* Paulo R. L. Gondim, University of Brasilia, Brazil & Universitat Politècnica de València, Spain

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* Sateesh Kumar Peddoju, Indian Institute of Technology Roorkee, Roorkee, India

Publicity Chair:

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* Zilong Ye, California State University, Los Angeles, USA

* Ismaeel Al-Ridhawi, American University of the Middle East, Kuwait

* Paolo Bellavista, University of Bologna, Italy

Invited Speaker and Panel Co-Chairs

* Thar Baker, Liverpool John Moores University, Liverpool, UK

* Miran Taha, Universitat Politècnica de València, Spain & University of Sulaimani, Iraq

Organization Chair:

* Yaser Jararweh, Carnegie Mellon University, USA.

Local Organising Committee

* Jaime Lloret, Universitat Politècnica de València, Spain

* Oscar Romero, Universitat Politècnica de València, Spain

* Sandra Sendra, Universidad de Granada, Spain

* Miguel Garcia-Pineda, The University of Valencia, Spain

* Cristina Cervelló-Pastor, Universitat Politècnica de Catalunya, Spain

Steering Committee:

* Elhadj Benkhelifa, Staffordshire University, UK.

* Ammar Rayes, Cisco Systems, USA.

* Yaser Jararweh, Carnegie Mellon University, USA.

* Jaime Lloret Mauri, Universidad Politécnica de Valencia, Spain

* Periklis Chatzimisios, Alexander TEI of Thessaloniki, Greece

* Salim Hariri, University of Arizona, USA

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SNAMS COMMITTEE

General Co-Chairs:

- * Christian Guetl, Graz University of Technology, Graz, Austria
- * Jim Jansen, Computing Research Institute, HBKU, Qatar & The Pennsylvania State University, USA

Technical Program Co-Chairs:

- * Mohammad AL-Smadi, Jordan University of Science and Technology, Jordan
- * Carlos A. Iglesias, Universidad Politécnica de Madrid, Spain

Organization Chair:

- * Elhadj Benkhelifa, Staffordshire University, UK. (emergingtechnetwork@gmail.com)

Publicity Co-Chairs:

- * Sandra Sendra Universidad de Granada, Spain (Publicity Co-Chair Europa)
- * Ralf Klamma (Publicity Co-Chair Europa)
- * Christopher Cheong (Publicity Co-Chair Asia-Pacific)
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Valencia, Spain. Oct 15-18, 2018

PROGRAMME

Keynote: Dr. Pablo Padilla, Universidad de Granada, Spain

Biological effects of electromagnetic waves and radiation in IoT environments.



Abstract: Wireless technology has experienced a great growing in the last years. The current communication challenges are mainly related to bandwidth, traffic demand, latency and connectivity. In such way, Internet of Things has brought a complete range of possibilities and potential applications around the user in its diary life. Devices of any kind with connectivity are now a reality, in what can be called “body-centric area networks”. However, joined to this growth of wireless technologies, there is a growing sensitivity in whether there exists any kind of possible biological influence of the radiated electromagnetic waves for the users. This keynote will present an overview of the topic, mainly focused on IoT devices, considering regulation, evidences and scientific discussion.

Biography: Pablo Padilla received his Ph.D. from the Technical University of Madrid, Spain. In 2009, he joined the Signal Theory, Telematics and Communications Department at Universidad de Granada, Spain, where he is currently associate Professor. He has also been invited researcher in the Laboratory of Electromagnetics and Acoustics at Ecole Polytechnique Fédérale de Lausanne (EPFL, Switzerland), at the Millilab of the Helsinki University of Technology (AALTO-TKK, Finland), and at the Royal Institute of Technology of Stockholm (KTH, Sweden). His research interests are related to communication topics at microwave and mm-waves: device and antenna design and measurement, and wireless channel characterization. He is author of more than fifty high-impact journal contributions and more than forty contributions to international symposia.

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PROGRAMME

Keynote: Dr. Francisco Falcone, Universidad Publica de Navarra, UPNA, Spain
Vehicular Context Aware Environments.



Abstract: The implementation of Context Aware environments is one of the main requirements for the adoption of Smart Cities and Smart Regions. In this sense, multiple systems inter-relate in order to provide true user-system interaction, optimizing resource usage as well as improving quality of life and user participation within the region. One of the most relevant elements in this context is transportation, with the advent of Intelligent Transportation Systems (ITS) in order to optimize traffic routes, minimize energy consumption/pollution and improve quality of experience for users in multi-modal transportation platforms. In this presentation we will address challenges and advances in the implementation of Context Aware Vehicular environments, as an additional player in future Internet of Things scenarios.

Biography: Francisco Falcone (M05, SM09) received his Telecommunication Engineering Degree (1999) and PhD in Communication Engineering (2005), both at the Public University of Navarre in Spain. From 1999 to 2000 he worked as Microwave Commissioning Engineer, Siemens-Italtel. From 2000 to 2008 he worked as Radio Network Engineer, Telefónica Móviles. In 2009 he co-founded Tafco Metawireless, From 2003 to 2009 he was also Assistant Lecturer at UPNA, becoming Associate Professor in 2009. He was head of the EE Dept. at UPNA from 2012 to 2018. His research area is artificial electromagnetic media, complex electromagnetic scenarios and wireless system analysis, with applications to context aware environments, Smart Cities and Smart Regions. He has over 500 contributions in journal and conference publications. He has participated in over 50 public and private funded research projects. He has been recipient of the CST Best Paper Award in 2003 and 2005, Best PhD in 2006 awarded by the Colegio Oficial de Ingenieros de Telecomunicación, Doctorate award 2004-2006 awarded by UPNA, Juan Lopez de Peñalver Young Researcher Award 2010 awarded by the Royal Academy of Engineering of Spain and Premio Talgo 2012 for Technological Innovation.

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PROGRAMME

Dr. Jean-Marie Le Goff, CERN, Switzerland

Graph search and knowledge extraction related to communities.



Abstract: According to Daniel Keim: "Visual analytics combines automated analysis techniques with interactive visualisations for an effective understanding, reasoning and decision making on the basis of very large and complex datasets". The effectiveness of Visual analytics essentially depends on the seamless interplay between automated analysis and interactive visualisation. In particular, the later shall enable users to visually explore the outputs of automated analytics with a view to maximizing insight and assess quality, and on the other hand provide support to user-driven analytics within interactive visualisation contexts. This talk will address important aspects of data representation and processing to be addressed for a successful combination of (hypergraph) graph-based interactive visualisation with data analysis techniques.

Biography: Jean-Marie Le Goff is a senior applied physicist and computer scientist that focuses on applying advanced IT techniques and concepts to Particle Physics. He first studied how to move objects over the internet using CORBA to service the control system middleware of the Large Hadron Collider (LHC) experiments at CERN. He then worked on extending the concepts of Unified Modeling Language (UML) layers with a description-driven layer for classes and objects which led to the development of a software (C.R.I.S.T.A.L.) dedicated to the tracking and assembly of detector parts. This versatile software found applications outside particle physics, in particular in industry as Enterprise Resource Programming (ERP) software and Business Process Management (BPM), and in accounting and finance. He is currently working on the use of emerging graph, semantic and structural abstraction techniques for data management and visualization in conjunction with techniques acquired in his previous work. This led to the development of the Collaboration Spotting software, a generic platform for visual analytics of complex datasets. The platform is being used to build various demonstrators including for compatibility and dependency relationships in software and metadata of an experiment at CERN, in scientometry with publication and patent information, pharmaco-analytics and neurosciences. Jean-Marie Le Goff holds a PhD in experimental particle physics and a DPhil in Computer Science. From 06/2003 – 06/2009, he has been Visiting Professor at the University of the West of England, Bristol, UK.

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PROGRAMME

Dr. Claudia Wagner, University Koblenz-Landau, Germany.

Minorities in Social and Information Networks



Abstract: Networks are the infrastructure of our social and professional life and also of modern information systems where billions of documents and entities are interlinked. However, not all nodes are equal in these networks. Often we observe attributes (e.g. gender or ethnicity) that define the group membership of a node. In this talk I will explore the role of minorities in social networks and information networks, provide empirical evidence for the disadvantage of minorities and discuss factors that may place minorities at a disadvantage. .

Biography: Claudia Wagner is an assistant professor in Computer Science at University Koblenz-Landau and the interim scientific director of the Computational Social Science department at GESIS – Leibniz Institute for the Social Sciences. From 2016 - 2017 Wagner was the head of team Data Science at GESIS. Wagner received her PhD in Computer Science from Graz University of Technology in 2013, before she joined GESIS as postdoctoral researcher (2013-2016). During her PhD she conducted several international research internships, among others at HP labs, Xerox PARC and the Open University. Her research focuses on computational methods for analyzing social issues (e.g. gender inequality, sexism) and social phenomena (e.g. collective attention, culture) using digital traces.

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VENUE AND ACCOMMODATIONS

The conference will be held at this modern Holiday Inn Express Valencia Ciudad de las Ciencias Located just 5 minutes walk from the City main attraction, City of Arts and Sciences complex and just off the V31 highway. Please find address below

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