2nd International Conference on Fog & Mobile Edge Computing (FMEC 2017)
Collocated with

4th International Conference on Software Defined Systems (SDS 2017) Valencia, Spain. May 8-11, 2017





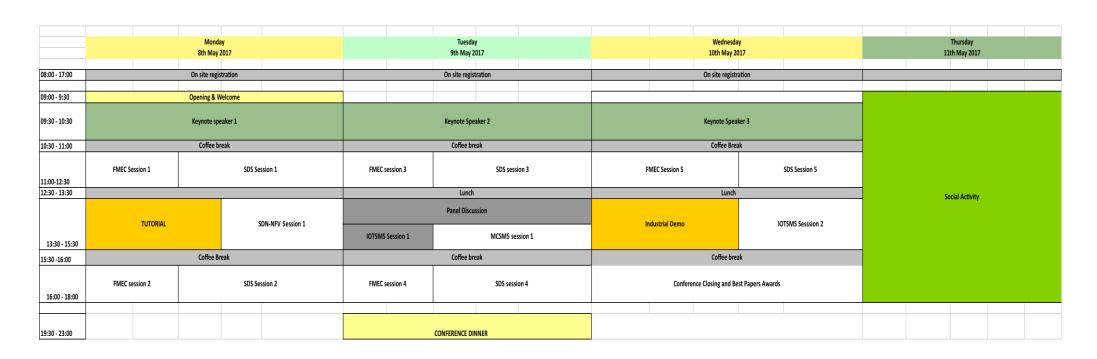






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Monday 8 th May 2017		
08:00 - 17:00		Onsite registration
09:00 - 09:30		Opening & Welcome
09:30 - 10:30		Keynote speaker 1: Jose F. Monserrat, Universidad Politecnica de Valencia Chair: Jaime Lloret Mauri
10:30 - 11:00		Coffee break
		Chair: Dongqing Liuand and Mohammad Alsmirat Resource Optimization in Fog Enabled IoT Deployments Visali Mushunuri, Ajay Kattepur, Hemant Kumar Rath and Anantha Simha
11:00- 12:30	FMEC Session 1	 Decentralized Data Offloading for Mobile Cloud Computing Based on Game Theory Dongqing Liu, Lyes Khoukhi and Abdelhakim Hafid Fog Function Virtualization: a Flexible Solution for IoT Applications Damian Roca, Josue V. Quiroga, Mateo Valero and Mario Nemirovsky Fog Computing Through Public-Resource Computing and Storage Sa'ul Alonso-Monsalve, F'elix Garc'ia-Carballeira and Alejandro Calder'on
11:00- 12:30	SDS Session 1	 STSM- A Model to Detect and Predict Large Crowd Anomalies for Optimized Path Recomendation Bilal Sadiq, Akhlaq Ahmad, Shahbaz Atta, Emad Felemban and Khalid Qahtani A Routing Scheme for Cognitive Radio Networks with Self-Interference Suppression Capabilities by Rawan F. El Khatib and Haythem Bany Salameh IoT development: Discovering, enabling and validation of real life IoT scenarios Denis Makoshenko, Ilya Enkovich A Software Defined Architecture for Cyberphysical Systems Ala' Darabseh and Nikolaos M. Freris
12:30 - 13:30		LUNCH
13:30 - 15:30		TUTORIAL 1: Prof. Mohammad Patwary 5G, IOT and Edge Computing: Digital Productivity

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		Chair: Mouad Idri and Yaser Jararweh
13:30 - 15:30	SDN-NFV	 Mobility management based SDN-IPv6 Routing Header Mouad Idri MPLS based Hybridization in SDN Yash Sinha, Siddharth Bhatia, G S S Chalapathi and Virendra S Shekhawat Smart Virtual eNB (SVeNB) for 5G Mobile Communication Fouad Yaseen, Nahlah Alkhalidi and Hamed Al-Raweshidy Network Function Virtualization as a Service for Multi-Tenant Software Defined Networks Abderrahmane Ledjiar, Emmanuel Sampin, Chamseddine Talhi, Mohamed Cheriet Software Defined Storage for Cooperative Mobile Edge Computing System Jafar Badarneh, Yaser Jararweh, Mahmoud Al-Ayyoub, Mohammad Al-Smadi and Ramon Fonte
15:30 - 16:00		Coffee break
		Chair: Kashif Bilal and Mohammad Patwary
16:00 - 18:00	FMEC session 2	 EdgeCloudSim: An Environment for Performance Evaluation of Edge Computing Systems Cagatay Sonmez, Atay Ozgovde, Cem Ersoy AFT: Adaptive Fibonacci-based Tuning Protocol for Service and Resource discovery in the Internet of Things by Firas Albalas, Wail Mardini and Majd Al-Soud Edge Computing for Interactive Media and Video Streaming Kashif Bilal and Aiman Erbad Cloud, Fog and Edge: Cooperation for the Future? Kay Bierzynski, Antonio Escobar, Matthias Eberl Location-aware Load Prediction in Edge Data Centers Chanh Nguyen Le Tan, Cristian Klein, and Erik Elmroth Cognitive Edge Computing based Resource Allocation Framework for Internet of Things. A. Amjad, Fazle Rabby, Shaima Sadia, Mohammad Patwary & Elhadj Benkhelifa
16:00 -		Chair: Matthias Flittner and Kyoomars Alizadeh Noghani
18:00	SDS Session 2	 Automating Ethernet VPN Deployment in SDN-based Data Centers Kyoomars Alizadeh Noghani, Cristian Hernandez Benet, Andreas Kassler Antonio Marotta, Patrick Jestin, Vivek V. Srivastava TREX: Tenant-driven Network Traffic Extraction for SDN-based Cloud Environments by Matthias Flittner and Robert Bauer OSPF routing protocol performance in Software Defined Networks

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	 Albert Rego, Sandra Sendra, Jose M. Jimenez and Jaime Lloret SDN VANETs in 5G: An Architecture for Resilient Security Services Ali Hussein, Imad H. Elhajj, Ali Chehab and Ayman Kayssi Mitigating Attacks in Software Defined Network(SDN) Kallol Krishna Karmakar, Vijay Varadharajan, Udaya Tupakula Automated Service Delivery Platform for C-RANs Deval Bhamare, Aiman Erbad, Raj Jain, Mohammed Samaka 				
	Tuesday 9 th May				
08:00 - 17:00	Onsite registration				
09:30 - 10:30	Keynote speaker 2 - Indrakshi Ray, Colorado State University, USA Chair: Yaser Jararweh				
10:30 - 11:00	Coffee break				
11:00- 12:30	 Chair: Hussein Alnuweiri and Young-Woo Kwon Reliable and Efficient Mobile Edge Computing in Highly Dynamic and Volatile Environments by Minh Le, Zheng Song, Young-Woo Kwon, and Eli Tilevich Exploring the trade-off between performance and energy consumption in cloud infrastructures by D. Kanapram, G. Lamanna, M. Repetto Self-Configuring Deterministic Network with In-Band Configuration Channel Peter Heise, Fabien Geyer and Roman Obermaisser Cooperative Load Balancing Scheme for Edge Computing Resources Roberto Beraldi, Abderrahmen Mtibaay and Hussein Alnuweiri 				
11:00- 12:30	 Chair: Mohamad Khattar Awad and Yaser Jararweh Collapsing the Layers: 6Stor, a Scalable and IPv6-Centric Distributed Storage System Guillaume Ruty, Andr´e Surcouf, Jean-Louis Rougier Fuzzy Decision System for Technology Choice in Hybrid Networks Sarah Abdallah, Imad H. Elhajj, Ali Chehab and Ayman Kayssi A Benchmark Implementation for Evaluating the Performance of Power-aware Routing Algorithms in Practical Software-defined Networks Yousef Rafique, Mohamad Khattar Awad and Ghadeer Neama QoS Management SDN-based for LTE/EPC with QoE Evaluation: IMS use case Sara KHAIRI, Mostafa BELLAFKIH, Brahim RAOUYANE 				

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12:30 -	Lunch	
13:30		
		Chair: Hesham Allam and Aamir Akbar
13:30 14:30	MCSMS Session 1	 Towards the Optimization of Power and Bandwidth Consumption in Mobile-Cloud Hybrid Applications by Aamir Akbar and Peter R. Lewis A Critical Overview of Latest Challenges and Solutions of Mobile Cloud Computing Hesham Allam, Nasser Nassiri, Amala Rajan, Jinesh Ahmad Cloudlet Solution for Digital Forensic Investigation of Multiple Cases of Multiple Devices by Siyakha Mthunzi, Elhadj Benkhelifa, Yaser Jararweh & Mahmoud Al-Ayyoub Chair: Attila Kertesz Mohammad Alsmirat Internet of Things Data Analytics for User Authentication and Activity Recognition Samera Batool, Nazar A. Saqib, Muazzam.A. Khan Priority-based Session Admission Control Method for Next Generation Internet
14:30	Session 1	Andris Skrastiņš, Jans Jeļinskis • Simulating IoT Cloud Systems: A Meteorological Case Study Andras Markus and Attila Kertesz
14:30- 15:30 15:30- 16:00	Panel Discussi	Coffee break
		Chair: John Yoon and Elhadj Benkhelifa
16:00 - 18:00	FMEC session 4	 Towards data privacy in heterogeneous cloud environments: an extension to the SANTA policy language. Nasser Abwnawar, Helge Janicke, Richard Smith and Aboubaker Lasebae From Smog to Fog: A Security Perspective Ruben Rios, Rodrigo Roman, Jose A. Onieva and Javier Lopez Mitigating Anti-forensics in the Cloud via Resource-Based Privacy Preserving Activity Adeyinka Odebade, Thomas Welsh, Siyakha Mthunzi and Elhadj Benkhelifa Resilience at the Edge in Cyber-Physical Systems Abhishek Dubey, Gabor Karsai, Subhav Pradhan Leveraging Sensor Data Content to Assure Sensor Device Trustworthiness in Mobile Edge Computing John Yoon
		Chair: Malek Al-Zewairi and Haythem Bany Salameh

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16:00 - 18:00	SDS Session 4	 An Experimental Software Defined Security Controller for Software Defined Network Malek Al-Zewairi, Dima Suleiman, and Sufyan Almajali Using Attribute-Based Access Control for Remote Healthcare Monitoring Indrakshi Ray, Bithin Alangot, Shilpa Nair, Krishnashree Achuthan Software Defined IoT Security Framework Ola Salman, Imad Elhajj, Ali Chehab and Ayman Kayssi Security analysis as Software-defined Security for SDN environment Nadya EL MOUSSAID, Ahmed TOUMANARI, Maryam EL AZHARI Security-aware Channel Assignment in IoT-based Cognitive Radio Networks for Time-Critical Applications Haythem Bany Salameh, Sufyan Almajali, Moussa Ayyash and Hany Elgala 	
19:30- 23:00	GALA DINNER		
	Wednesday 10 th May		
08:00 - 15:30		Onsite registration	
09:30- 10:30	Keynote talk 3- Jaime Lloret Mauri, Polytechnic University of Valencia, Spain Chair: Elhadj Benkhelifa, Staffordshire University, UK		
10:30 - 11:00	Coffee break		
		Chair: Mathias Santos de Brito and Sufyan Almajali	
11:00- 13:00	FMEC Session 5	 A Service Orchestration Architecture for Fog-enabled Infrastructures Mathias Santos de Brito, Saiful Hoque, Thomas Magedanz, Ronald Steinke, Alexander Willner, Daniel Nehls, Oliver Keils, Florian Schreiner Towards Gateway to Cloud Offloading in IoT Publish/Subscribe Systems Daniel Happ and Adam Wolisz Defining and Testing Virtual Federated Networks Across Multiple Cloud Sites Ivan Andrade, Carlos de Alfonso and Ignacio Blanquer A data protection model for fog computing Thanh Dat Dang and Doan Hoang Cloud Based Intelligent Extensible Shared Context Services Sufyan Almajali, Dhiah el Diehn I. Abou-Tair 	

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		Chair: Oliver Michel and Yaser Jararweh	
11:00- 13:00	SDS Session 5	 SD-CPS: Taming the Challenges of Cyber-Physical Systems with a Software-Defined Approach by Pradeeban Kathiravelu and Lu´ıs Veiga Adaptive SDN-based architecture using QoE metrics in live video streaming on Cloud Mobile Media by Miguel Garcia-Pineda, Santiago Felici-Castell and Jaume Segura-Garcia SDN in Wide-Area Networks: A Survey Oliver Michel, Eric Keller Evaluation of SDS Controller (CorpHD) for Various Storage Demands Shreya Bokare, Sanjay Pawar and Shikha Nema BigCrypt for Big Data Encryption Abdullah Al Mamun , Khaled Salah , Somaya Al-maadeed , and Tarek R. Sheltami 	
13:00 -			
14:00 14:00 - 15:00 15:00- 16:00		LUNCH Demo: Prototyping Platform for IOT Applications Using TCP/IPv6 Over WSN By Prof. SpainAbdelhakim Hafid, University of Montreal, Canada Demo: Prototyping Platform for IOT Applications Using TCP/IPv6 Over WSN By Prof. SpainAbdelhakim Hafid, University of Montreal, Canada	
14:00 - 16:00	IOTSMS Session 2	 Chair: Haythem Bany Salameh and Mohammad Alsmirat Proposed Model to Implement High-Level Information Security in Internet of Things Sergio Duque Castilho, Eduardo P. Godoy and Tayane W. L. Castilho Next Generation Marine Data Networks in an IOT Environment Rabab Al-Zaidi, John Woods, Mohammed Al-Khalidi, Khattab Alheeti & Klaus McDonald Collision-Free Anycast Transmission Scheduling in UWSNs Ahmad Ababneh Mahmoud Al-Ayyoub, Yaser Jararweh and Mohammad Alsmirat Multi-Level Security for the 5G/IoT Ubiquitous Network Ola Salman, Ayman Kayssi Ali Chehab, and Imad Elhajj On consumable energy allocation frame-work with SWIPT for remotely located wireless node within internet of things by AlaaAllah Ahmed ElSabaa, Mohammad Patwary, Elhadj Benkhelifa, Amira Zaki and Said E. El-Khamy 	
16:00- 17:00		Coffee, Tea and Refreshments Conference Closing Remarks Best Papers Announcements and Awards Certificates of Attendance	
Thursday			

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PROGRAMME

11th May

FREE DAY FOR SOCIAL ACTIVITIES









