



**Program at Glance of the International Symposium
on Networks, Computers and Communications
(ISNCC-2018)**

June 19-21, 2018 - Rome, Italy

www.isncc-conf.org



Date	Time	Event			
Day 1 – Tuesday June 19, 2018	08:15 am – 09:00 am	Registration			
	09:00 am – 10:00 am	Opening Ceremony – Room Leonardo Eng. Enrico Russo (Honorary General Chair) Prof. Ernesto Limiti (Head of Electronics Department Univ. Rome Tor Vergata) Prof. Michele Luglio (General Co-Chair) Prof. Tarek Bejaoui (Program Committee Co-Chair)			
	10:00 am – 10:45 am	Keynote Speaker 1: Prof. Erol Gelenbe (Imperial College London, United Kingdom) Chair: Prof. Yassine Hadjadj-Aoul (University of Rennes 1, France)			
	10:45 am – 11:15 am	Coffee Break			
	11:15 am – 12:00 pm	Keynote Speaker 2: Dr. Magali Vaissiere (European Space Agency, ECSAT) Chair: Eng. Enrico Russo (Italian Space Agency)			
	12:00 pm – 01:15 pm	Lunch			
	01:15 pm – 02:00 pm	Keynote Speaker 3: Eng. Marco Lisi (European Space Agency, GSA) Chair: Eng. Alberto Tuozi (Italian Space Agency)			
	02:00 pm – 02:15 pm	APRE presentation on international funding opportunities			
	02:15 pm – 02:40 pm	Coffee Break			
	02:40 pm – 05:00 pm	<table border="1"> <tr> <td>Session A1: Internet of Things and Smart Cities I</td> <td>Session A2: 5G Evolution and Implementation</td> </tr> <tr> <td>Session A3: Quality of Service in Next Generation Networks</td> <td>Session A4: Cloud Computing and Networking</td> </tr> </table>	Session A1: Internet of Things and Smart Cities I	Session A2: 5G Evolution and Implementation	Session A3: Quality of Service in Next Generation Networks
Session A1: Internet of Things and Smart Cities I	Session A2: 5G Evolution and Implementation				
Session A3: Quality of Service in Next Generation Networks	Session A4: Cloud Computing and Networking				
Day 2 – Wednesday June 20, 2018	08:15 am – 09:00 am	Registration			
	09:00 am – 11:15 am	Session B1: Next Generation Wireless Networking			
		Session B2: Satellite Communications and Networking I			
		Session B3: Antenna Systems, Propagation and RF Design I			
	11:15 am – 11:45 am	Coffee Break			
	11:45 am – 12:30 am	Keynote Speaker 4: Prof. Giovanni Emanuele Corazza (University of Bologna, Italy) Chair: Prof. Michele Luglio (University of Rome Tor Vergata, Italy)			
	12:30 pm – 01:50 pm	Lunch & Best Paper Award Ceremony			
	01:50 pm – 4:00 pm	Session B4: Satellite Communications and Networking II			
		Session B5: Internet of Things and Smart Cities II			
		Session B6: Trust, Security and Privacy I			
4:30 pm	Guided Tour				
7:30 pm	Gala Dinner				
10:30 pm	Drop off at Tor Vergata and Anagnina metro station				

Day 3 – Thursday June 21, 2018	09:00 am – 09:45 am	Keynote Speaker 5: Prof. Mohsen Guizani (University of Idaho, USA) Chair: Prof. Nidal Nasser (AlFaisal University, KSA)		
	09:45 am – 10:30 am	Keynote Speaker 6: Dr. Bilel Jamoussi (ITU, Switzerland) Chair: Prof. Suat Ozdemir (Gazi University, Turkey)		
	10:30 am – 11:00 am	Coffee Break		
	11:00 am – 12:30 pm	Session C1: Antenna Systems, Propagation and RF Design II	Session C2: Smart Communications Systems	
		Session C3: Trust, Security and Privacy II	Session C4: Advances in Wireless Communications I	
	12:30 pm – 02:00 pm	Lunch		
	02:00 pm – 03:30 pm	Session C5: Social Networking and Communications	Session C6: Internet of Things and Smart Cities III	
		Session C7: Advances in Wireless Communications II	Session C8: Trust, Security and Privacy III	
03:30 pm – 04:00 pm	Coffee Break			
04:00 pm	Closing Ceremony			

**Technical Program of the International Symposium
on Networks, Computers and Communications
(ISNCC-2018)
June 19-21, 2018 - Rome, Italy**

Day 1 – Tuesday June 19, 2018	
Time	Event
08:15am – 09:00 am	Registration
09:00 am – 10:00 am	<p style="text-align: center;">Opening Ceremony – Room Leonardo Eng. Enrico Russo (Honorary General Chair) Prof. Ernesto Limiti (Head of Electronics Department Univ. Rome Tor Vergata) Prof. Michele Luglio (General Co-Chair) Prof. Tarek Bejaoui (Program Committee Co-Chair)</p>
10:00 am – 10:45 am	<p>Keynote Speaker 1: Prof. Erol Gelenbe (Imperial College London, United Kingdom) <i>Title:</i> "The Energy Packet Network Framework for Optimising Energy Consumption with Quality of Service" <i>Chair:</i> Prof. Yassine Hadjadj-Aoul (University of Rennes 1, France) <i>Room:</i> Leonardo</p>
10:45 am – 11:15 am	Coffee Break
11:15 am – 12:00 pm	<p>Keynote Speaker 2: Dr. Magali Vaissiere (European Space Agency, ECSAT) <i>Title:</i> "Satellite for 5G" <i>Chair:</i> Eng. Enrico Russo (Italian Space Agency) <i>Room:</i> Leonardo</p>
12:00 pm – 01:15 pm	Lunch
01:15 pm – 02:00 pm	<p>Keynote Speaker 3: Dr. Eng. Marco Lisi (European Space Agency, GSA) <i>Title:</i> "Integration and fusion of PNT, remote sensing and telecommunications infrastructures" <i>Chair:</i> Eng. Enrico Russo (Italian Space Agency) <i>Room:</i> Leonardo</p>
02:00 pm – 02:15 pm	APRE presentation on international funding opportunities Room Leonardo
02:15 pm – 02:40 pm	Coffee Break

02:40 pm – 05:00 pm	<p>Session A1: Internet of Things and Smart Cities I Room: <i>Leonardo</i> Chair: <i>Prof. Rim Moussa (University of Carthage, Tunisia)</i></p> <ol style="list-style-type: none"> 1. Invited Paper - Security for Internet of Things: The SerIoT Project, <i>Erol Gelenbe (Imperial College London, United Kingdom); Joanna Domanka and Tadek Czachorski (IITIS-PAN, Gliwice, Poland); Dimitrios Tzovaras (Thessaloniki, Greece)</i> 2. Sensory Systems for Human Body Gesture Recognition and Motion Capture, <i>Giovanni Saggio, Giancarlo Orenco, Antonio Pallotti, Vito Errico, Mariachiara Ricci (University of Rome Tor Vergata, Italy)</i> 3. Design and Implementation of IoT-Based Automation System for Smart Home, <i>Waheb Abduljabbar Shaif Abdullah (Faculty of Engineering Technology, University Malaysia Pahang (UMP), Malaysia)</i> 4. Indoor Thermal Comfort Collection of People with Physical Disabilities, <i>Bouziane Brik (ICD/ERA (UMR CNRS 6281), Troyes University of Technology, France); Moez Esseghir (Technology University of Troyes & Charles Delaunay Institute, France); Leila Boulahia and Hichem Snoussi (University of Technology of Troyes, France)</i> 5. Survival Analysis of Elderly while Escaping from a Simulated Building, <i>Washington Velasquez Vargas (Universidad Politecnica de Madrid, Spain & Escuela Superior Politecnica del Litoral, Ecuador); Marjorie Chalen (Escuela Superior Politecnica del Litoral, Ecuador); Joaquin Salvachua (Technical University of Madrid, Spain)</i> 6. Practical Approach of Fast-Data Architecture Applied to Alert Generation in Emergency Evacuation Systems, <i>Washington Velasquez Vargas (Univ. Politecnica de Madrid, Spain & Escuela Superior Politecnica del Litoral, Ecuador); Andres Munoz-Arcenales (Univ. Politécnica de Madrid, Spain & Escuela Superior Politécnica del Litoral, Ecuador)</i> 7. Building an Intelligent and Efficient Smart Space to Detect Human Behavior in Common Areas, <i>Sagar Shelke, Jacob Harbour and Baris Aksanli (San Diego State University, USA)</i>
	<p>Session A2: 5G Evolution and Implementation Room: <i>Galileo</i> Chair: <i>Prof. Angeles Vazquez-Castro (Univ. Autónoma de Barcelona, Spain)</i></p> <ol style="list-style-type: none"> 1. Latency Guarantee for Multimedia Streaming Service to Moving Subscriber with 5G Slicing, <i>Lijun Dong (Huawei, USA); Richard Li (Huawei USA, USA)</i> 2. Design and Implementation of MPLS SDN Controller Application based on OpenDaylight, <i>Emir Husni (Institut Teknologi Bandung, Indonesia); Adhy Bramantyo (School of Electrical Engineering & Informatics, Institut Teknologi Bandung, Indonesia)</i>

3. **GiLAN Roaming: Roam Like at Home in a Multi-Provider NFV Environment**, Juhoon Kim (*Deutsche Telekom AG, Germany*); Luis M. Contreras (*Telefonica, Spain*); Pierluigi Greto, Hilmar Magnusson, Hagen Woesner and Daniel Fritzsche (*BISDN GmbH, Germany*); Luca Cominardi and Carlos J. Bernardos (*Universidad Carlos III de Madrid, Spain*)
4. **Softwarization of Network Coding Functions and Logical Mapping to SDN**, Angeles Vazquez-Castro (*Universidad Autónoma de Barcelona, Spain*); Luis M. Contreras (*Telefonica, Spain*)
5. **Cloud Stock Exchange for Telecommunication**, Akos Leiter (*Ericsson Hungary, Hungary*)
6. **Policy-based QoS Management Framework for Software-Defined Networks**, Ahmed Al-Jawad (*Middlesex University, UK*); Purav Shah (*Middlesex University & School of Science and Technology, UK*); Orhan Gemikonakli and Ramona Trestian (*Middlesex University, UK*)
7. **Performance Evaluation of a Virtualized 5G Core Network in Indoor Environments**, Bong-Hwan Oh (*University of Surrey, UK*); Serdar Vural (*University of Surrey & Institute for Communication Systems, UK*); Yogaratnam Rahulan, Ning Wang and Rahim Tafazolli (*University of Surrey, UK*)
8. **Proposal of Multi-Pathization Method of UDP with SDN for NFS**, Kaori Iwata and Yoshihiro Ito (*Nagoya Institute of Technology, Japan*)

Session A3: Quality of Service in Next Generation Networks

Room: Archimede

Chair: Dr. Mahmoud Elmesalawy (*Helwan University, Egypt*)

1. **Joint Channel Estimation of Multiple Transmitters on Shared Resource Blocks by Approximating Channel States with Constant Frequency Sinusoids**, Zhenghao Zhang and Avishek Mukherjee (*Florida State University, USA*)
2. **Towards Smart Networking through Context Aware Traffic Identification Kit (TriCK) in 5G**, Lina Xu (*University College Dublin & Clarity Research Center, Ireland*); Ruifeng Duan (*Aalto University, Finland*)
3. **Fronthaul-aware User Association in 5G Heterogeneous Cloud Radio Access Networks: A Matching Game Perspective**, Mahmoud Elmesalawy and Mohamed Elhattab (*Faculty of Engineering, Helwan University, Egypt*); Tawfik Ismail (*NILES, Cairo University, Egypt*)
4. **Cross-Layer Multipath Multichannel MAC Protocol for MANETs**, Nawaf Mirza, Hamish Taylor and Mohamed Abdelshafy (*Heriot-Watt Univ., UK*); Peter King (*Heriot Watt Univ. at Edinburgh UK*); Imed Romdhani (*Edinburgh Napier Univ., UK*); Atif A. Alghamdi (*Heriot Watt University - Edinburgh, UK*)
5. **An Effective Algorithm for Finding Common Control Channel in Cognitive Radio Ad Hoc Networks Using a Single Transceiver and a Backup Channel**, Heydar Shariatzadeh and Saeed Ghazi Maghrebi (*Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran*)

6. **The Bufferboost Effect: when Drops and Redundancy boost the Throughput**, *Carlo Augusto Grazia, Martin Klapez and Maurizio Casoni (University of Modena and Reggio Emilia, Italy)*
7. **Joint Beamforming Design and BBU Computational Resources Allocation in Heterogeneous C-RAN with QoS Guarantee**, *Mahmoud Elmesalawy and Mostafa Abdelhakam (Faculty of Engineering, Helwan University, Egypt)*
8. **Enhancing 802.11ac Dynamic Access method for Increasing the Throughput of Low Priority Access Categories BK and BE**, *Mammeri Souhila, Mohand Yazid, Louiza Bouallouche-Medjkoune, Thanina Belkhir (University of Bejaia, Algeria)*

Session A4: Cloud Computing and Networking

Room: *Pitagora*

Chair: *Dr. Jihene Rezgui (College Maisonneuve, Canada)*

1. **Malicious URL Filtering: A Fault Tolerant Approach**, *Mansoor Ahmed (COMSATS Institute of Information Technology, Pakistan)*
2. **Hierarchical Cloud Communication for Supply Management and Power Distribution via Wireless Mesh Network into the Smart Grid**, *Jihene Rezgui (College Maisonneuve, Canada); Wiem Benrhaïem (Université de Montréal, Canada)*
3. **On a Dynamic Data Placement Strategy for Heterogeneous Hadoop Clusters**, *Yang Liu (Northwest University, P.R. China); Chase Q. Wu (New Jersey Institute of Technology & Oak Ridge National Laboratory, USA); Meng Wang, Aiqin Hou and Yongqiang Wang (Northwest University, P.R. China)*
4. **Open Access to Intersystem Handover Control Using Multi-access Edge Computing**, *Evelina Pencheva, Ivaylo Atanasov, Denitsa Kireva and Vencislav Trifonov (Technical University of Sofia, Bulgaria)*
5. **Optimal Placement of Virtual Security Functions to Minimize Energy Consumption**, *Sedef Demirci and Mehmet Demirci (Gazi University, Turkey); Seref Sagiroglu (Gazi university, Turkey)*
6. **An Extension of Mobile Edge Computing Bandwidth Management API**, *Evelina Pencheva, Ivaylo Atanasov, Denitsa Kireva and Vencislav Trifonov (Technical University of Sofia, Bulgaria)*

Day 2 – Wednesday June 20, 2018

Time	Event
08:15am –09:00 am	Registration
09:00 am – 11:15 am	<p>Session B1: Next Generation Wireless Networking Room: <i>Leonardo</i> Chair: <i>Dr. Ahmet Serdar Tan (MEF University, Turkey)</i></p> <ol style="list-style-type: none"> 1. Multiple Sink Placement Strategy for Underwater Wireless Sensor Networks, <i>Faiza Al-Salti, Khaled Day, Nasser Alzeidi and Abderezak Touzene (Sultan Qaboos University, Oman)</i> 2. LEACH-S: Low Energy Adaptive Clustering Hierarchy for Sensor Network, <i>Amira Bendjeddou (University of Annaba, Algeria); Houria Laoufi (Badji Mokhtar University, Algeria); Saadi Boudjit (University of Paris 13, France)</i> 3. Analysis and Experimental Characterization of Channel Congestion Control in Vehicular Networks, <i>Elena Cinque, Francesco Valentini, Marco Pratesi, Sandro Chiocchio and Arianna Persia (University of L'Aquila, Italy)</i> 4. Experimental evaluation of SAPC-R: an adaptive power control protocol for mobile sensors, <i>Debraj Basu (Trinity College Dublin, Ireland); Avishek Nag (University College Dublin, Ireland); Gourab Sen Gupta (Massey University, New Zealand); Yi Zhang (Trinity College Dublin, Ireland)</i> 5. Design of a Wireless Sensor Network to Detect Car Accidents on Highways, <i>Nestor X. Arreaga, Rebeca Estrada, Christopher S. Baidal M., Vladimir Sanchez Padilla, David Salazar (Escuela Superior Politécnica del Litoral, Ecuador)</i> 6. The Impact of D2D Connections on Network-Assisted Mobile Data Offloading, <i>Ahmet Serdar Tan (MEF University, Turkey); Engin Zeydan (Türk Telekom Labs, Turkey)</i> 7. A Cluster-Based Mobile Data-Gathering Scheme for Underwater Sensor Networks, <i>Seyed Mohammad Ghoreyshi, Alireza Shahrabi and Tuleen Boutaleb (Glasgow Caledonian University, UK)</i>
	<p>Session B2: Satellite Communications and Networking I Room: <i>Galileo</i> Chair: <i>Prof. Lidong Zhu (Univ. of Electronic Science and Techno. of China)</i></p> <ol style="list-style-type: none"> 1. SHINE: Secure Hybrid In Network caching Environment, <i>Simon Pietro Romano (University of Napoli Federico II); Cesare Roseti (University of Rome Tor Vergata); Antonia Tulino (University of Napoli Federico II, Italy)</i> 2. A Data-aided Interference Cancellation GFDM Receiver for Hybrid Satellite-Terrestrial Communication Systems, <i>Yang Yang and Lidong Zhu (University of Electronic Science and Technology of China, P.R. China)</i> 3. An Improved Earliest-Delivery Routing Algorithm in Double-layered Satellite Delay Tolerant Networks, <i>Guokui Zhao (Communication Research Center, Harbin Institute of Technology, P.R. China); Ming-Chuan Yang and Qing Guo (Harbin Institute of Technology, P.R. China)</i>

4. **SatNetCode: Functional Design and Experimental Validation of Network Coding over Satellite**, Angeles Vazquez-Castro (*Universidad Autónoma de Barcelona, Spain*); Paresh Saxena (*AnsuR, Norway*); Tan Do-Duy (*Universidad Autónoma de Barcelona, Spain*); Fredrick Vamstad and Harald Skinnemoen (*AnsuR Technologies, Norway*)
5. **Underdetermined Blind Separation Via Rough Equivalence Clustering for Satellite Communications**, Li Chengjie (*Southwest Minzu University*); Lidong Zhu (*University of Electronic Science and Technology of China, P.R. China*); Zhongqiang Luo (*Sichuan University of Science and Engineering, China*)

Session B3: Antenna Systems, Propagation and RF Design I

Room: Archimede

Chair: Prof. Mohsen Khalily (*University of Surrey, UK*)

1. **An Experimental Study towards Examining Human Body Movements in Indoor Wave Propagation at 18 - 22 GHz**, Ahmed Alabish and Yaser Dalveren (*Atilim University, Turkey*); Ali Kara (*Atilim University TUBITAK/BILGEM-UEKAE, Turkey*)
2. **Performance Analysis of the Loop-Shaped Plasma Antenna Under Different Pressure Conditions**, Samineh Sarbazi Golazari (*South Tehran Branch Azad University, Iran*); Mohsen Khalily (*University of Surrey & 5G Innovation Centre, Institute for Communication Systems (ICS), UK*)
3. **Millimeter-wave System for the Detection of Cracks using Weiner Filter-based Layered Synthetic Aperture Radar (WL-SAR) Technique**, Faeyz Karim (*Nanyang Technological University, Singapore*); Vidhya Natarajan (*National University of Singapore, Singapore*); Arokiaswami Alphones (*Nanyang Technological University, Singapore*)
4. **A Frequency Reconfigurable Dual-Band Monopole Antenna for Wireless Applications**, Bilal Ijaz, Adnan Iftikhar, Khurram S Alimgeer (*COMSATS Institute of information Technology, Pakistan*); Muhammad Saeed Khan (*University of Padova, Italy*); Raed Shubair (*Massachusetts Institute of Technology (MIT), USA*)
5. **Millimeter-Wave MIMO Balanced Antipodal Vivaldi Antenna Design for Autonomous Cars**, Ali Araghi (*ITRC, Iran*); Mohsen Khalily (*University of Surrey & ICS, UK*); Pei Xiao (*University of Surrey, UK*); Arash Kosari (*ITRC, Iran*); Houman Zarrabi (*ITRC & Concordia University, Canada*); Rahim Tafazolli (*University of Surrey, UK*)
6. **A U-shaped Wide band frequency Reconfigurable Dielectric Resonator Antenna for 5G Applications**, Shahid Khan (*University of Lorraine, France*); Hazrat Ali (*COMSATS Institute of Information Technology, Pakistan*); Jamal Nasir (*University of Technology Malaysia, Malaysia*); Loic Sieler and Tanougast Camel (*University of Lorraine, France*)

11:15 am – 11:45 am	Coffee Break
11:45 am – 12:30 am	<p>Keynote Speaker 4: Prof. Giovanni Emanuele Corazza (University of Bologna, Italy)</p> <p>Title: "Creativity: The Role of Humans in the hyper-connected society"</p> <p>Chair: Prof. Michele Luglio (University of Rome Tor Vergata, Italy)</p> <p>Room: Leonardo</p>
12:30 pm – 01:50 pm	Lunch & Best Paper Award Ceremony
01:50 pm – 4:00 pm	<p>Session B4: Satellite Communications and Networking II</p> <p>Room: Leonardo</p> <p>Chair: Dr. Cesare Roseti (University of Rome Tor Vergata, Italy)</p> <ol style="list-style-type: none"> 1. A Suboptimal Routing Algorithm for Massive LEO Satellite Networks, Yilun Liu and Lidong Zhu (University of Electronic Science and Technology of China, P.R. China) 2. Satellite Telecommunication Networks Simulation and Emulation Requirements, Ahmed Abdelsalam, Cesare Roseti and Francesco Zampognaro (University of Rome Tor Vergata, Italy) 3. Interference and Link Budget Analysis in Integrated Satellite and Terrestrial Mobile System, Ran Bi and Ming-Chuan Yang (Harbin Institute of Technology, P.R. China) 4. TCP Performance for Satellite M2M Applications over Random Access Links, Francesco Zampognaro, Cesare Roseti and Ahmed Abdelsalam (University of Rome Tor Vergata, Italy) 5. Capacity Analysis of A MEO Satellite Constellation System, Yahui Wang and Lidong Zhu (University of Electronic Science and Technology of China, P.R. China)
	<p>Session B5: Internet of Things and Smart Cities II</p> <p>Room: Galileo</p> <p>Chair: Prof. Massimo Marchiori (University of Padova, Italy & EISMD, Belgium)</p> <ol style="list-style-type: none"> 1. Managing IoT-Based Smart Healthcare Systems Traffic with Software Defined Networks, Farag Sallabi (UAE University, United Arab Emirates); Faisal Naeem (Abasyn University, Pakistan); Mamoun Awad (UAEU, United Arab Emirates); Khaled Shuaib (UAE University, United Arab Emirates) 2. Fix Me Up: Smart Pathways Status Detection, Massimo Marchiori (University of Padova, Italy & EISMD, Belgium) 3. Comparative Analysis of IoT Communication Protocols, Burak Corak, Feyza Yildirim Okay and Metehan Guzel (Gazi University, Turkey); Sahin Murt (AIR Telekomünikasyon Çözümleri San. Tic. A.Ş., Turkey); Suat Ozdemir (Gazi University, Turkey)

	<p>4. Insights from Eye-movement Events in an Educational Computer-based-simulation Environment (ECE) for Endo-neurosurgery Training Considering Gender, Hand Condition and Scenario Effects, <i>Gonca Gokce Menekse Dalveren (Atilim University, Turkey); Nergiz Ercil Cagiltay (Atilim University, Turkey)</i></p> <p>5. User-Centered Design of a Service-Oriented Application to Help People with Memory Limitations, <i>Cristian Cuerda Gonzalez (Universidad de Castilla - La Mancha & ISEE, Spain); Jose A. Gallud (ISE Research Group, Castilla-La Mancha University, Spain); Daniyal M Alghazzawi (King Abdulaziz University, Saudi Arabia)</i></p> <p>6. A Survey of Smart City Assets for Future Military Usage, <i>Manas Pradhan (Fraunhofer FKIE, Germany)</i></p>
	<p>Session B6: Trust, Security and Privacy I Room: <i>Archimede</i> Chair: <i>Dr. Eoghan Furey (Letterkenny Institute of Technology, Ireland)</i></p> <p>1. Hashing Scheme based on ECG Readings for Emergency Access to IMDs, <i>Taha Belkhouja (University of Idaho, USA); Amr Mohamed and Abdulla K Al-Ali (Qatar University, Qatar); Xiaojiang Du (Temple University, USA); Mohsen Guizani (University of Idaho & University of Idaho, USA)</i></p> <p>2. Lightweight IoT Group Key Establishment Scheme Using One-way Accumulator, <i>Teklay Gebremichael and Ulf Jennehag (Mid Sweden University, Sweden); Mikael Gidlund (Mid Sweden University & ABB Corporate Research, Sweden)</i></p> <p>3. A Novel Fingerprint Protection Approach based on SoPC Chaotic Encryption, <i>Mohamed Salah Azzaz and Noureddine Aissaoui (EMP, Algeria); Camel Tanougast (University Paul Verlaine - Metz, France)</i></p> <p>4. Building a Traffic Policer for DDoS Mitigation on Top of Commodity Hardware, <i>Erkin Kirdan, Daniel Raumer and Paul Emmerich (Technical University of Munich, Germany); Georg Carle (Technische Universität München, Germany)</i></p> <p>5. A Novel Approach for Protecting Legacy Authentication Databases in Consideration of GDPR, <i>Juanita Blue (University of Ulster, UK); Eoghan Furey (Letterkenny Institute of Technology, Ireland)</i></p> <p>6. Cyber-physical Threats and Vulnerabilities Analysis for Train Control and Monitoring Systems, <i>Mouna Rekik (IFSTTAR, France); Christophe Gransart (University Lille Nord de France, France); Marion Berbineau (IFSTTAR, COSYS & University Lille Nord de France, France)</i></p>
4:30 pm	Guided Tour
7:30 pm	Gala Dinner
10:30 pm	Drop off at Tor Vergata and Anagnina metro station

Day 3 – Thursday June 21, 2018

Time	Event
09:00 am – 09:45 am	<p>Keynote Speaker 5: Prof. Mohsen Guizani (University of Idaho, USA)</p> <p>Title: "Security Aspects for Implantable Medical Devices & Health Systems"</p> <p>Chair: Prof. Nidal Nasser (AlFaisal University, KSA)</p> <p>Room: Leonardo</p>
09:45 am – 10:30 am	<p>Keynote Speaker 6: Dr. Bilel Jamoussi (ITU, Switzerland)</p> <p>Title: "International Standards in support of the latest ICT innovation"</p> <p>Chair: Prof. Suat Ozdemir (Gazi University, Turkey)</p> <p>Room: Leonardo</p>
10:30 am – 11:00 am	<p>Coffee Break</p>
11:00 am – 12:30 pm	<p>Session C1: Antenna Systems, Propagation and RF Design II</p> <p>Room: Leonardo</p> <p>Chair: Prof. Giancarlo Orenco (University of Tor Vergata, Rome, Italy)</p> <ol style="list-style-type: none"> 1. Small Size, High Power Density, Solid State Amplifiers for Space Application, Davide Passi, Alberto Leggieri, Alessio Mattioni, Franco Di Paolo (University of Rome Tor Vergata, Italy), Maurizio D'Antoni (MITEC srl, Italy); Marco Bartocci, Antonio Tafuto and Egidio Ciaccia (Elettronica SpA, Italy) 2. A Synthesis Technique for Concentric Rings Arrays using Sectional Excitation, Salman Behboudi Amlashi (Shahed University, Iran) 3. Integrated circuits for data communication receivers, Giancarlo Orenco (University of Tor Vergata, Rome, Italy) 4. Rain Intensity Estimation Using Satellite Beacon Signal Measurements, László Csurgai-Horváth and János Bitó (Budapest University of Technology and Economics, Hungary) 5. Design of a Photoconductive Antenna for Pulsed-Terahertz Spectroscopy with Polarization Diversity, Salman Behboudi Amlashi (Shahed University, Iran); Ali Araghi (ITRC, Iran); Gholamreza Dadashzadeh (Shahed University, Iran)

Session C2: Smart Communications Systems

Room: Galileo

Chair: Dr. Francesco Zampognaro (University of Rome Tor Vergata, Italy)

1. **Need of Time-Domain Pre-processing of Impulse Noises for PLC/xDSL Systems**, Neelima Singh (IIT Delhi, New Delhi, India); Brejesh Lall (Indian Institute of Technology Delhi, India)
2. **Better Performance of Wireless Systems Using WPT Instead of FFT in Standard RA6 Fading Channels**, Saeed Ghazi Maghrebi (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran); Farbaian Khordadpoor-Deylamani (Islamic Azad University, Iran)
3. **TCP Wave Estimation of the Optimal Operating Point using ACK trains**, Cesare Roseti, Ahmed Abdelsalam and Francesco Zampognaro (University of Rome Tor Vergata, Italy); Natale Patriciello (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Italy)
4. **Generalized Memory-Assisted Adaptive-Threshold Detection Scheme for On-OFF-Keying Diffusion-Based Molecular Communications**, Ghalib H Alshammri (Stevens Institute Of Technology, USA); Walid Ahmed (Broadcom Inc., USA); Victor Lawrence (Stevens Institute Of Technology, USA)
5. **High Speed Elephant Flow Detection Under Partial Information**, Jordi Ros-Giralt (Reservoir Labs, Inc., USA)
6. **A New Efficient Adaptive Normalized Min-Sum Decoder for Irregular LDPC Codes in OFDM**, Saeed Ghazi Maghrebi and Amir Atashbar (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran)

Session C3: Trust, Security and Privacy II

Room: Archimede

Chair: Prof. Dan Chia-Tien Lo (Kennesaw State University, USA)

1. **A Password Generator Tool to Increase Users' Awareness on Bad Password Construction Strategies**, Pieris Tsokkis and Eliana Stavrou (University of Central Lancashire, Cyprus)
2. **Malicious Host Detection by Imaging SYN Packets and A Neural Network**, Ryo Nakamura and Yuji Sekiya (The University of Tokyo, Japan); Daisuke Miyamoto (Nara Advanced Institute of Science and Technology, Japan); Kazuya Okada and Tomohiro Ishihara (The University of Tokyo, Japan)
3. **Modelling Botnet Propagation in Networks with Layered Defences**, Dilara Acarali (City, University of London, United Kingdom); Muttukrishnan Rajarajan and Nikos Komninos (City University London, United Kingdom)
4. **Secure Mobile Software Development with Vulnerability Detectors in Static Code Analysis**, Xianyong Meng, Kai Qian and Dan Chia-Tien Lo (Kennesaw State University, USA); Prabir Bhattacharya (Morgan State University, USA); Fan Wu (Tuskegee University, USA)

	<p>5. A Secure RFID Authentication Scheme for Healthcare Environments Based on Digital Signature Algorithm, <i>Mustapha Benssalah and Mustapha Djeddou (Ecole Militaire Polytechnique, Algeria); Karim Drouiche (Université de Cergy Pontoise, France)</i></p> <hr/> <p>Session C4: Advances in Wireless Communications I Room: Pitagora Chair: <i>Prof. Marina Mondin (California State University, Los Angeles, USA & Politecnico di Torino, Italy)</i></p> <ol style="list-style-type: none"> 1. Quasi-Orthogonal FHMA System under Large Access Delay: Code Design and Performance Analysis, <i>Qi Zeng (Sichuan University, P.R. China); Xing Liu (University of Electronic Science and Technology of China, P.R.)</i> 2. Performance of IA-MMSE Iterative Structures for SFBC Decoding in MIMO Systems Using Realistic System Parameters, <i>Marina Mondin (California State University, Los Angeles, USA & Politecnico di Torino, Italy); Fred Daneshgaran (California State University, Los Angeles, USA); Francesco Di Stasio (Politecnico di Torino, Italy)</i> 3. A Filtering Based Precoded Multicarrier NOMA Scheme for 5G Cellular Networks, <i>Imran Baig, U. Farooq, N.UI Hasan, M. Zghaibeh (Dhofar University, Sultanate of Oman), U. Mukhtar Rana, M. Imran and M. Ayaz (University of Tabuk, KSA)</i> 4. Achievable Rate of N-Continuous Precoded SIM-OFDM, <i>Xun Li, Peng Wei, Yue Xiao and Bin Fu (University of Electronic Science and Technology of China, P.R. China)</i> 5. Hybrid Beamforming for Large-scale MIMO-OFDM in Frequency Selective Fading, <i>Yanping Xiao, Yue Xiao, Feng Yu, You Li, Yong Wang and Bin Fu (University of Electronic Science and Technology of China, P.R. China)</i> 6. Multirate 5G Downlink Performance Comparison for f-OFDM and w-OFDM Schemes with Different Numerologies, <i>Francesco Di Stasio (Politecnico di Torino, Italy); Marina Mondin (California State University, Los Angeles, USA & Politecnico di Torino, Italy); Fred Daneshgaran (California State University, Los Angeles, USA)</i>
12:30 pm – 02:00 pm	Lunch
02:00 pm – 03:30 pm	<p>Session C5: Social Networking and Communications Room: Leonardo Chair: <i>Prof. Andrea D'Ambrogio (University of Rome Tor Vergata, Italy)</i></p> <ol style="list-style-type: none"> 1. On the Impact of the Multiplication Decrease Factor of QUIC, <i>Maiass Zaher and Sándor Molnár (Budapest University of Technology and Economics, Hungary)</i>

2. **Search Algorithms for Distributed Data Structures in P2P Networks**, Raed Al-Aaridhi and Iakov Dlikman (University of Duesseldorf, Germany); Newton W. Masinde (Heinrich Heine Universität, Düsseldorf, Germany); Kalman Graffi (Heinrich Heine University Düsseldorf, Germany)
3. **Communities' Detection in Social Networks: State of the art and perspectives**, Rachid Djerbi (LIMOSE Laboratory, Boumerdes University Algeria); Rabah Imache (LIMOSE Laboratory Boumerdes University, Algeria); Mourad Amad (Bouira University & Laboratory LAMOS, Algeria)
4. **Inferring Political Alignments of Twitter Users: A case study on 2017 Turkish constitutional referendum**, Kutlu Emre Yilmaz (TOBB University of Economics and Technology, Turkey); Osman Abul (TOBB, Turkey)
5. **A Complexity-less Approach for Automated Development of Data-intensive Web Applications**, Tommaso Panetti (University of Rome Tor Vergata, Italy); Andrea D'Ambrogio (University of Rome Tor Vergata, Italy)

Session C6: Internet of Things and Smart Cities III

Room: Galileo

Chair: Dr. Ahmed Abdelsalam (University of Rome Tor Vergata, Italy)

1. **Autonomic Management Approach for Dynamic Service Based IoT Systems**, Guillaume Garzone (LAAS-CNRS, Université de Toulouse, INSA, France); Nawal Guermouche (LAAS-CNRS and Univ de Toulouse, France); Thierry Monteil (LAAS-CNRS, Université de Toulouse, INSA, France)
2. **High Frequency Dynamic Voltage Forecasting Under Reduced Wireless Sensor Network Observability**, John Paul Maria Cajanding and Miguel Alberto Mercado (University of the Philippines, Diliman, Philippines); Nestor Michael C. Tiglao (University of the Philippines, Philippines)
3. **An Analysis of the Energy Consumption of LPWA-based IoT Devices**, Joseph Finnegan (Maynooth University & CONNECT Centre, Ireland); Stephen Brown (National University of Ireland, Maynooth, Ireland)
4. **Traffic Sign Detection And Recognition Using Adaptive Threshold Segmentation With Fuzzy Neural Network Classification**, Abdulrahman Alturki (Qassim University, Saudi Arabia)
5. **Survey: Smart City based on IoT**, Husam Rajab and Tibor Cinkler (Budapest University of Technology and Economics, Hungary)
6. **Ensemble-based Adaptive Single-shot Multi-box Detector**, Viral Thakar, (Concordia University, Canada), Walid Ahmed and Mohammad M Soltani (Indusai, Canada), and Jia Yuan Yu (Concordia University, Canada)

Session C7: Advances in Wireless Communications II

Room: Galileo

Chair: Dr. Jean-Marc Lasgouttes (INRIA, France)

1. **An Efficient Jamming Rejection Scheme of FH-Based Adaptive Beamforming System for High-Mobility Communication Links**, Qi Zeng and Jun Zhong (Sichuan University, P.R. China)

	<ol style="list-style-type: none"> 2. Toward Efficient Simulation Platform for Platoon Communication in Large Scale C-ITS Scenarios, <i>Ahmed Soua (INRIA, France); Oyunchimeg Shagdar (VEDECOM, France); Jean-Marc Lasgouttes (INRIA, France)</i> 3. FPGA implementation of Spectrum Sensing methods for Cognitive Radio, <i>Djamel Teguig (Military Polytechnical School, Algeria); Mohamed Salah Azzaz (EMP, Algeria)</i> 4. A New Radio Wave Propagation Model Optimization Approach for Tehran City Based on Standard Model Tuning, <i>Saeed Ghazi Maghrebi (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran); Parisa Bayan and Ali Rahmanian (Islamic Azad University, Iran)</i> 5. Joint Spectrum Allocation and Power Control for Cognitive Radio Networks Based on Potential Game, <i>Xi Yu and Weilian Xue (Liaoning Normal University, P.R. China)</i> 6. Multiple Base Stations Diversity for UNB Systems: Theoretical Analysis and Performances, <i>Yuqi Mo (CITI of INSA-Lyon & SIGFOX, France); Claire Goursaud (INSA-Lyon, France); Jean-Marie Gorce (INSA-Lyon & CITI, Inria, France)</i>
	<p>Session C8: Trust, Security and Privacy III Room: <i>Pitagora</i> Chair: <i>Prof. Miad Faezipour (University of Bridgeport, USA)</i></p> <ol style="list-style-type: none"> 1. Development of a Suite of IPv6 Vulnerability Scanning Tests Using the TTCN-3 Language, <i>Adriano Galindo Leal and Igor Cunha Teixeira (IPT - Institute for Technological Research of the State of São Paulo, Brazil)</i> 2. Effective Features Selection and Machine Learning Classifiers for Improved Wireless Intrusion Detection, <i>Razan Abdulhammed (University of Bridgeport & University of Bridgeport, USA); Miad Faezipour, Abdelshakour A. Abuzneid and Ali Alessa (University of Bridgeport, USA)</i> 3. An Enhanced Architecture for Serial Fusion based Multi-biometric Verification System, <i>Md Hossain (Southern Connecticut State University, USA); Jundong Chen (Dickinson State University, USA); Khandaker Rahman (Saginaw Valley State University, Michigan, USA)</i> 4. Discovering True Kids Mobile Behavior, <i>Massimo Marchiori (University of Padova, Italy & EISMD, Belgium)</i> 5. Preserving Privacy in Wireless Sensor Networks using Onion Routing, <i>Sandra Iskander (Faculty of Media Engineering and Technology, German University in Cairo); Amr Elmougy (The German University in Cairo, Egypt)</i>
03:30 pm – 04:00 pm	Coffee Break
04:00 pm	Closing Ceremony