

**Program at Glance of the International Symposium
on Networks, Computers and Communications
(ISNCC-2019)
June 18-20, 2019 - Istanbul, Turkey**

	Date	Event		
Day 1 – Tuesday June 18, 2019	8:15 am – 9:00 am	Registration		
	9:00 am – 10:00 am	Opening Ceremony – Room Istanbul Prof. İlhami Çolak (Honorary General Chair) Prof. Suat Özdemir (General Chair) Prof. Tarek Bejaoui (General Co-Chair)		
	10:00 am – 10:45 am	Keynote Speaker 1: Prof. Fumiyuki Adachi (Tohoku University, Japan) Chair: Prof. Michele Luglio (University of Rome Tor Vergata, Italy)		
	10:45 am – 11:15 am	Coffee Break		
	11:15 am – 12:00 pm	Keynote Speaker 2: Prof. Huan Liu (Arizona State University, USA) Chair: Prof. Rim Moussa (University of Carthage, Tunisia)		
	12:00 pm – 1:15 pm	Lunch		
	1:15 pm – 3:15 pm	Session A1: Internet of Things and Smart Cities I	Session A2: Edge, Fog and Cloud Computing and Networking	
		Session A3: Quality of Service in Next Generation Networks I	Session A4: Antenna Systems, Propagation and RF Design I	
	3:15 pm – 3:45 pm	Coffee Break		
3:45 pm – 5:45 pm	Session A5: Internet of Things and Smart Cities II	Session A6: Smart Communications Systems		
	Session A7: Network Function Virtualization - Software Defined Networks	Session A8: Antenna Systems, Propagation and RF Design II		
Day 2 – Wednesday June 19, 2019	8:15 am – 9:00 am	Registration		
	9:00 am – 9:45 am	Keynote Speaker 3: Prof. Çağrı Güngör (Abdullah Gül University, Turkey) Chair: Prof. Hasan Amca (Eastern Mediterranean University, Turkey)		
	9:45 am – 9:50 am	Short Break		
	9:50 am – 10:35 am	Keynote Speaker 4: Prof. Damla Turgut (University of Central Florida, USA) Chair: Prof. Christos J Bouras (University of Patras CTI; P-Diophantus; University of Patras, Greece)		
	10:35 am – 11:00 am	Coffee Break		
	11:00 am – 1:00 pm	Session B1: Satellite Communications and Networking	Session B2: Quality of Service in Next Generation Networks II	
		Session B3: Trust, Security and Privacy I	Session B4: Internet of Things and Smart Cities III	
1:00 pm – 2:00 pm	Lunch			

	2:00 pm – 4:00 pm	Session B5: Quality of Service in Next Generation Networks III	Session B6: Advances in Wireless Communications I	
		Session B7: Advances in Wireless Communications II	Session B8: Trust, Security and Privacy II	
	4:00 pm – 4:30 pm	Coffee Break		
	4:30 pm – 5:00 pm	Best Paper Awards Ceremony		
	6:30 pm	Gala Dinner		
Day 3 – Thursday June 20, 2019	9:00 am – 9:45 am	Keynote Speaker 5: Dr. Ömer Köksal (ASELSAN, Turkey) Prof. Lidong Zhu (<i>University of Electronic Science and Technology of China, P.R. China</i>)		
	9:45 am – 9:50 am	Short Break		
	09:50 am – 10:35 pm	Keynote Speaker 6: Prof. Latif Ladid (University of Luxembourg, Luxembourg) Chair: Prof. Jihene Rezgui (<i>CollegeMaisonneuve, Montreal, Canada</i>)		
	10:35 am – 11:00 am	Coffee Break		
	11:00 am – 1:00 pm	Session C1: Internet of Things and Smart Cities IV	Session C2: Trust, Security and Privacy III	
		Session C3: Advances in Communications and Networking	Session C4: Next Generation Networks and Communications	
	1:00 am – 1:30 pm	Closing Ceremony		
	1:30 pm – 02:30 pm	Lunch		
	Enjoy Istanbul!			

**Technical Program of the International Symposium
on Networks, Computers and Communications
(ISNCC-2019)
June 18-20, 2019 - Istanbul, Turkey**

Day 1 – Tuesday June 18, 2019	
Time	Event
8:15am –9:00 am	Registration
9:00 am – 10:00 am	Opening Ceremony – Room Istanbul Prof. İlhami Çolak (Honorary General Chair) Prof. Suat Özdemir (General Chair) Prof. Tarek Bejaoui (General Co-Chair)
10:00 am – 10:45 am	Keynote Speaker 1: Prof. Fumiyuki Adachi (Tohoku University, Japan) Title: "Wireless Evolution Towards 5G" Chair: Prof. Michele Luglio (University of Rome Tor Vergata, Italy) Room: Istanbul
10:45 am – 11:15 am	Coffee Break
11:15 am – 12:00 pm	Keynote Speaker 2: Prof. Huan Liu (Arizona State University, USA) Title: "Big Social Media Data and Its Challenges for Machine Learning" Chair: Prof. Rim Moussa (University of Carthage, Tunisia) Room: Istanbul
12:00 pm – 1:15 pm	Lunch
1:15 pm – 3:15 pm	Session A1: Internet of Things and Smart Cities I Room: Topkapi Chair: Dr. Alma Oracevic (Georgia Institute of Technology, USA) <ol style="list-style-type: none"> 1. Low-cost sensor using a dsPIC for measuring a specific heat capacity of liquids <i>Patrick Kibambe Mashoko Nkwari, Swapna Chintakunta and Khmaies Ouahada (University of Johannesburg, South Africa)</i> 2. Finding better learning algorithms for self-driving cars An overview of the LAOP platform <i>Jihene Rezgui, Clément Bisailon and Léonard Oest O’Leary (College Maisonneuve, Canada)</i>

3. **An Exploratory Data Analytics Platform for Factories of Future,**
Engin Zeydan (CTTC, Spain); Ömer Dedeoğlu (Turk Telekom Group, Turkey)
4. **An Application Framework of Crowdsourcing based Emergency Events Reporting in Smart Cities,**
Muhammad Taha Jilani (Pakistan Air Force Karachi Institute of Economics and Technology, Pakistan); Muhammad Azeem Abbas (University Institute of Information Technology, Pakistan); Muhammad Zaka Ur Rehman (CIIT, Pakistan)
5. **CoAP based IoT data transfer from a Raspberry Pi to Cloud,**
Thomas Scott (Manchester Metropolitan University, United Kingdom); Amna Eleyan (Manchester Metropolitan University, United Kingdom)

Session A2:Edge, Fog and Cloud Computing and Networking

Room: Galata

Chair: Prof. Evelina Pencheva (Technical University of Sofia, Bulgaria)

1. **Implementing Enterprise Resource Planning Systems in the Cloud: Challenges and Solutions,**
Ahmad Rabay'a and Kalman Graffi (Heinrich Heine University Düsseldorf, Germany)
2. **Provisioning of UE Behavior Prognostic by Multi-access Edge Computing,**
Ivaylo Atanasov, Evelina Pencheva, Aleksandar Nametkov and Vencislav Trifonov (Technical University of Sofia, Bulgaria)
3. **Edge Computing based Smart Meeting Room Controller,**
Kemal Serdaroglu and Sebnem Baydere (Yeditepe University, Turkey))
4. **Review of RDMA-enabled Consensus Protocols,**
Karim Sonbol (Koç University, Turkey); Öznur Özkasap (Koç University, Turkey)
5. **Packet Data Session Management as a Service,**
Evelina Pencheva, Ivaylo Atanasov, Vladislav Vladislavov and Vencislav Trifonov (Technical University of Sofia, Bulgaria)

Session A3: Quality of Service in Next Generation Networks I

Room: *Fatih*

Chair: *Dr. Mohammed W. Baidas (Kuwait University, Kuwait)*

1. A Matching-Theoretic Approach to Joint Subcarrier Assignment and Weighted-Sum Energy-Efficient Power Allocation in Multi-Carrier NOMA Relay Networks,

Mohammed W. Baidas (Kuwait University, Kuwait); Emad Alsusa (Manchester University, United Kingdom), Khairi A. Hamdi (University of Manchester, United Kingdom)

2. Use of Particle Filtering in RSSI-Based Localization by Drone Base Stations,

Şerife Senem Karaman, Tolga Girici and Alper Akarsu (TOBB University of Economics and Technology, Turkey)

3. Cooperative Caching based on Small Base Station Selection for Wireless Networks,

Yue Xiao, Ruimeng Gan, Yucheng Liao, Ping Yang and Bin Fu (University of Electronic Science and Technology of China, P.R. China)

4. Enhancing VANET's Secure Routing with the Trust Metric,

Afef Slama (National School of Computer Sciences, Tunisia); Ilhem Lengliz (Military Academy, Tunisia)

5. Poster - Dynamic Wider Bandwidth Channel Access in the Next Generation Vehicular Networks ,

Ronny Yongho Kim (Korea National University of Transportation, Korea)

6. Path Loss Results for Wireless Sensor Network Deployment in a Sparse Tree Environment ,

Abdulaziz S. Alsayyari (Shaqra University, Saudi Arabia); Abdallah Aldosary (Prince Sattam bin Abdulaziz University, Saudi Arabia)

Session A4: Antenna Systems, Propagation and RF Design I

Room: *Taksim*

Chair: *Prof. Raed Mesleh (German Jordanian University, Jordan)*

1. Investigation on the RF and Microwave Energy Harvesting from wireless and mobile communication networks,

Chemseddine Benkalfate (University of Tlemcen; STIC Laboratory, Algeria); Mohammed Feham (University of Tlemcen, Algeria); Achour Ouslimani (ENSEA, France); Abed-Elhak Kasbari (ENSEA-ECS-Lab, France)

	<p>2. Medical Applications of Imaging Reconstruction using Electromagnetic Field in Terahertz Frequency Range, <i>Abdel-Aziz Hassanin and Amr Saadeldin Shaaban (Menoufia University, Egypt); Fathi El-samie (Menoufia University, Egypt)</i></p> <p>3. Impact of I/Q Imbalance on Receive Space Modulation Techniques, <i>Omar Hiari and Raed Mesleh (German Jordanian University, Jordan)</i></p> <p>4. A Wideband High Flat Gain Waveguide-Fed Aperture Antenna Using Superstrate and Shield, <i>Mehdi Ghorbani (University of Guilan, Iran); Mohsen Khalily (University of Surrey, United Kingdom); Pei Xiao and Rahim Tafazolli (University of Surrey, United Kingdom)</i></p> <p>5. Broadband Millimeter Wave Planar Power Combiner/Divider, <i>Ali Ghavidel (Iran Telecommunication Research Center (ITRC), Iran)</i></p> <p>6. Performance of NOMA-eMBMS Cellular Broadcasting for Multicast/Unicast Applications in 5G Networks, <i>Saeed Ghazi Maghrebi (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran); Heydar Shariatzadeh (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University; Applied Science University, Iran)</i></p>
3:15 pm – 3:45 pm	Coffee Break
3:45 pm – 05:45 pm	<p>Session A5: Internet of Things and Smart Cities II</p> <p>Room: <i>Topkapi</i></p> <p>Chair: <i>Dr. Andres Munoz-Arcentales (Universidad Politécnic de Madrid, Spain; Escuela Superior Politécnic del Litoral, Ecuador)</i></p> <p>1. A Smart School Bus Tracking System, <i>Ilker Korkmaz (Dept of Computer Engineering, Izmir University of Economics, Turkey); Alp Camcı, Cihangir Cengiz, Doğan Dirik, Emre Çekçi and Fatih Akbaba (Izmir University of Economics, Turkey)</i></p> <p>2. A Blockchain Smart Contract Application Framework, <i>Arif Furkan Mendi, Tolga Erol, Emre Şafak and Tolga Kayın (HAVELSAN A.Ş., Turkey)</i></p> <p>3. A Systematic Approach to Identify an Appropriate Classifier for Limited-Sized Data Sets, <i>Alanoud Bin Dris (Kacst, Saudi Arabia); Najla Alzakari (King Abdulaziz City for Science and Technology, Saudi Arabia); Heba A. Kurdi (King Saud University; College of Computer and Information Sciences, Saudi Arabia)</i></p>

4. **Fine Tuning Distributed Divergecast Scheduling Algorithms in IEEE 802.15.4e TSCH for Internet of Everything,**
Alper K. Demir and Sedat Bilgili (Adana Science and Technology University, Turkey)
5. **Wildfire Propagation Simulation Tool using Cellular Automata and GIS,**
Washington Velasquez and Andres Munoz-Arcentales (Universidad Politécnic de Madrid, Spain; Escuela Superior Politécnica del Litoral, Ecuador); Thomas Michael Bohnert (Zurich University of Applied Sciences, Switzerland); Joaquin Salvachua (Technical University of Madrid, Spain)

Session A6: Smart Communications Systems

Room: Galata

Chair: Dr. Alain Richard Ndjiongue (Univ. of Johannesburg, South Africa)

1. **Capacity of Outdoor VLC Links Using a Visible LASER Beam,**
Alain Richard Ndjiongue and Khmaies Ouahada (University of Johannesburg, South Africa)
2. **Improving Estimation of a Sparse Channel for OFDM Systems by Utilizing Side Information,**
Saeed Ghazi Maghrebi (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran); SeyedHadi Hashemi Rafsanjani (ICT Research Center, Iran)
3. **Investigation of Multi-Beam Interference Impact on State-of-Polarization OCDMA Optical Networks,**
Naser Tarhuni (Sultan Qaboos University, Oman)
4. **Performance Analysis of Acousto Optical Modulator-Free Space Optical System Over Gamma-Gamma Turbulent Channel,**
Raed Mesleh and Ayat Olaimat (German Jordanian University, Jordan)
5. **Reconstruction Distortion Oriented Light Field Image Dataset for Visual Communication,**
Gangyi Jiang, Zhijiao Huang, Ken Chen, Mei Yu, Zongju Peng Peng and Fen Chen (Ningbo University, P.R. China)
6. **Performance Evaluation of Wavelet Packet Modulation for Wireless Digital Communications,**
Mohammad Ridwan Effendi and Tati Mengko (ITB, Indonesia); Arief Hamdani Gunawan (Telkom Indonesia, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

Session A7:Network Function Virtualization - Software Defined Networks

Room: *Fatih*

Chair: *Prof. Öznur Özkasap (Koç University, Turkey)*

1. **LBFT: Load Balancing and Fault Tolerance in distributed controllers,**
Aye Mahjoubi (University of Isfahan - University of Tehran, Iran); Omid Zeynalpour, Benyamin Eslami and Nasser Yazdani (University of Tehran, Iran)
2. **F-DCTCP: Fair Congestion Control for SDN-Based Data Center Networks,**
Lotfi Mhamdi (University of Leeds, United Kingdom); Hedi Hamdi (University Of Manouba, Tunisia); Jonathan Aina (University of Leeds, United Kingdom)
3. **Self-adapting Linear Network Coding Emulation,**
Nuno Coelho (Instituto de Telecomunicações and ISCTE - University Institute of Lisbon, Portugal), Francisco A. Monteiro (Instituto de Telecomunicações and ISCTE - University Institute of Lisbon, Portugal); Rui J. Lopes (Instituto de Telecomunicações and ISCTE - University Institute of Lisbon, Portugal)
4. **A Novel Utility Based Metric and Routing for Energy Efficiency in Software Defined Networking,**
Beakal Gizachew Assefa and Öznur Özkasap (Koç University, Turkey)
5. **'The ZNSL Network': A Novel Approach to Virtual Networking,**
Erik Joseph Seidel and Songjie Wei (Nanjing University of Science and Technology, P.R. China)
6. **The Nearest Origin-Shield (NOS): A Jitter-Free Overlay Routing Framework for Content Delivery Networks,**
Nima Najaflou (Istanbul University-Cerrahpasa, Turkey); Ahmet Arıç (Medianova CDN, Turkey); Berk Canberk (Istanbul Technical University, Turkey); Zeynep Gurkas Aydin (Istanbul University, Turkey)

Session A8:Antenna Systems, Propagation and RF Design II

Room: *Taksim*

Chair: *Dr. Mohsen Khalily (University of Surrey, United Kingdom)*

1. **Bandwidth Enhancement and Radiation Characteristics Improvement of Triangular Dielectric Resonator Antenna,**
Mehdi Ghorbani (University of Guilan, Iran); Mohsen Khalily (University of Surrey, United Kingdom); Habib Ghorbaninejad (University of Guilan, Iran); Pei Xiao and Rahim Tafazolli (University of Surrey, United Kingdom)

2. **Grating Lobes Reduction In Linear Arrays Composed Of Subarrays using PSO,**
Ghazale Tashtarian (FUM, Iran); Mohammad Saeed Majedi (Ferdowsi University of Mashhad, Iran)
3. **Special Aspects of Ultra-Short Radio Wave Propagation above the Sea Surface. Theoretical Background and Experimental Results,**
Oksana Smirnova and Tatiana Popovich (SPIIRAS Hi-Tech Research and Development Office Ltd, Russia); Vasily Popovich (SPIIRAS HTR;DO Ltd, Russia)
4. **High efficient Millimeter Wave Rectangular Cavity Power Combiner/Divider,**
Ali Ghavidel (Iran Telecommunication Research Center (ITRC), Iran); Roghieh Karimzadeh Bae (ITRC, Iran); Esfandiar Mehrshahi (SBU, Iran)
5. **Circularly Polarized Sequentially Rotated Patch Antenna Array at 2.45 GHz,**
Mervat Madi and Karim Youssef Kabalan (American University of Beirut, Lebanon); Mohamad Alwan (Lebanese University, Lebanon)
6. **Design of a Cascaded Band Pass and Band Stop Filter Using Microstrip Coupled Lines and L-shaped Resonators Coupling Technolog,**
Kamran Zia (National University of Sciences and Technology, Pakistan); Hifsa Iram (National University of Computer and Emerging Sciences, Pakistan)

Day 2 – Wednesday June 19, 2019	
8:15 am–9:00 am	Registration
9:00 am – 9:45 am	<p>Keynote Speaker 3: Prof. Çağrı Güngör (Abdullah Gül University, Turkey)</p> <p>Title: “Power of the Digital Economy”</p> <p>Chair: Prof. Hasan Amca (Eastern Mediterranean University, Turkey)</p> <p>Room: Istanbul</p>
9:45 am – 9:50 am	Short Break
9:50 am – 10:35 am	<p>Keynote Speaker 4: Prof. Damla Turgut (University of Central Florida, USA)</p> <p>Title: “Networking outside the line - an invitation”</p> <p>Chair: Prof. Christos J Bouras(University of Patras CTI;P-Diophantus; University of Patras, Greece)</p> <p>Room: Istanbul</p>
10:35 am – 11:00 am	Coffee Break
11:00 am – 1:00 pm	<p>Session B1:Satellite Communications and Networking</p> <p>Room: Topkapi</p> <p>Chair: Prof. Gengxin Zhang(Nanjing University of Posts and Telecommunications,P.R. China)</p> <ol style="list-style-type: none"> 1. Improved Route Selection Strategy Based on K Shortest Path, Huang Guanghao (NUPT, P.R. China); Lu Wei (Army Engineering University of PLA, P.R. China); Gengxin Zhang and Jidong Xie (Nanjing University of Posts and Telecommunications, P.R. China) 2. Blind Source Separation Via Geometric Segmentation With Canonical Correlation Analysis in Satellite Communications, Li Chengjie (Southwest Minzu University, P.R. China); Lidong Zhu (University of Electronic Science and Technology of China, P.R. China); Zhen Zhang (Southwest Minzu University, P.R. China) 3. QUIC-proxy based Architecture for Satellite Communication to Enhance a 5G Scenario, Ahmed Abdelsalam (University of Rome Tor Vergata, Italy); Michele Luglio and Mattia Quadrini (University of Rome Tor Vergata - Dip. Ing. Elettronica, Italy); Cesare Roseti and Francesco Zampognaro (University of Rome Tor Vergata, Italy) 4. An Efficient Way for Satellite Interference Signal Recognition via Incremental Learning , Ying Yang and Lidong Zhu (University of Electronic Science and Technology of China, P.R. China)

5. **Preliminary Study of Improving Position in North Algeria using GPS and EGNOS Corrections** ,

Lahouaria Tabti, Jr and Kahlouche Salem (Center of Space Technique, Algeria); Benadda Belkacem (University of Tlemcen; Technology Faculty, Algeria)

6. **A GFDM-CDMA Scheme for Hybrid Satellite-Terrestrial Communication System,**

Yang Yang, Lidong Zhu and Xing Mao (University of Electronic Science and Technology of China, P.R. China)

7. **Dynamic Channel Allocation Strategy of Satellite Communication Systems Based on Grey Prediction**

Qinyang Zou and Lidong Zhu (University of Electronic Science and Technology of China, P.R. China)

Session B2: Quality of Service in Next Generation Networks II

Room: Galata

Chair: Dr. Amna Eleyan (Manchester Metropolitan University, UK)

1. **A Novel Scheduling Scheme for Ultra-Dense Networks,**

Amr Abdelbari (Near East University, Turkey); Huseyin Haci (Near East University, Cyprus)

2. **Multi-Priority Based Interference Mitigation Scheme for HetNets Uplinks: A Frequency Hopping Method,**

Qi Zeng and Xing Liu (Sichuan University, P.R. China)

3. **An Asynchronous Self-Stabilizing Maximal Independent Set Algorithm In Wireless Sensor Networks Using Two-Hop Information ,**

Ozkan Arapoglu and Orhan Dagdeviren (Ege University, Turkey)

4. **Resource-Efficient Decoupling in Ultra-Dense 5G Networks,**

Christos J Bouras (University of Patras CTI;P-Diophantus; University of Patras, Greece); Vasileios Kokkinos (University of Patras; Greek Research and Technology Network S.A., Greece); Evangelos Michos (University of Patras, Greece)

5. **Handover Implementation for Femtocell Deployment in LTE Heterogeneous Networks,**

Azita Laily Yusof (Universiti Teknologi Mara, Malaysia); Mohd Saufi Bin Haji Nasro Ali (Universiti Teknologi MARA, Malaysia); Norsuzila Ya'acob (Universiti Teknologi Mara, Malaysia)

6. **The Effect of Random Node Distribution and Transmission Ranges on Connectivity Robustness in Wireless Sensor Networks,**
Orhan Dagdeviren (Ege University, Turkey); Vahid Khalilpour Akram (EGE University, Turkey)

Session B3: Trust, Security and Privacy I

Room: *Fatih*

Chair: *Dr. Eoghan Furey (Letterkenny Institute of Technology, Ireland)*

1. **Efficient Privacy-preserving User Identity with Purpose-based Encryption,**
Tri Hoang Vo (Deutsche Telekom, Germany); Woldemar Fuhrmann (University of Applied Sciences Darmstadt, Germany); Klaus-Peter Fischer-Hellmann (Digamma GmbH, Germany); Steven Furnell (University of Plymouth, United Kingdom)
2. **Veiled Shared key Generation for Intra-Convoy Secret Communication Sessions,**
Sarah Al-Shareeda (University of Bahrain, Bahrain)
3. **Securing Blockchain Shards By Using Learning Based Reputation and Verifiable Random Function,**
Ahmet Bugday (University of Hacettepe, Turkey); Adnan Ozsoy (Hacettepe University, Turkey); Hayri Sever (Cankaya University, Turkey)
4. **Efficient Network Intrusion Detection Using PCA-Based Dimensionality Reduction of Features,**
Razan Abdulhammed (University of Bridgeport, USA); Miad Faezipour (University of Bridgeport, USA); Hassan Musafir (University of Bridgeport, USA); Abdelshakour A. Abuzneid (University of Bridgeport, USA)
5. **A High capacity Double-Layer Gray Code Based Security Scheme for Secure Data Embedding,**
Ghadir Mostafa (The German University in Cairo, Egypt); Wassim Alexan (German University in Cairo, Egypt)
6. **It is Probably Me: A Bayesian Approach To Weighting Digital Identity Sources,**
Juanita Blue, Joan V Condell and Tom Lunney (University of Ulster, United Kingdom)

	<p>Session B4:Internet of Things and Smart Cities III</p> <p>Room: <i>Taksim</i> Chair: <i>Dr. Abdelkader Ouda (University of Western Ontario, Canada)</i></p> <ol style="list-style-type: none"> 1. Key-based Reversible Data Masking for Business Intelligence Healthcare Analytics Platforms, <i>Abdelkader Ouda and Osama Ali (University of Western Ontario, Canada)</i> 2. InterOpT: A new testing platform based on oneM2M standards for IoT systems, <i>Senay Tuna Demirel (Netas Telecommunications Inc., Turkey); Resul Das (Firat University, Technology Faculty; Firat University, Turkey); Mehmet Nuri Demirel (NETAS Telecommunication Inc., Turkey); Ibrahim Dogru (Netas Telecommunication A. S., Turkey)</i> 3. Resilient Deployment of Drone Base Stations, <i>Alper Akarsu and Tolga Girici (TOBB University of Economics and Technology, Turkey)</i> 4. IoT based Hand Hygiene Compliance Monitoring, <i>Noushin Karimpour, Burak Karaduman and Aybars Ural (Ege University, Turkey); Moharram Challenger (University of Antwerp, Belgium); Orhan Dagdeviren (Ege University, Turkey)</i> 5. An Internet of Things (IoT) Management System for Improving Homecare - A Case Study, <i>Areej Almazroa (King Saud University, Saudi Arabia; Durham University, United Kingdom); Hongjian Sun (Durham University, United Kingdom)</i>
1:00 pm – 2:00pm	Lunch
2:00 pm – 4:00 pm	<p>Session B5: Quality of Service in Next Generation Networks II</p> <p>Room: <i>Topkapi</i> Chair: <i>Prof. Suleyman Tosun (Hacettepe University, Turkey)</i></p> <ol style="list-style-type: none"> 1. Indoor Location Finding of the Transmitter Based on Bluetooth Received Signal Strength, <i>Aysenur Hatipoglu (Turkish Aerospace Industries Inc., Turkey)</i> 2. Base Station Selection for Cache-enabled Wireless Networks, <i>Yucheng Liao, Ruimeng Gan, Yue Xiao, Ping Yang and Bin Fu (University of Electronic Science and Technology of China, P.R. China)</i> 3. Number Analysis and Operator Detection in Telecommunication Systems, <i>Murat Berk, Onder Aycicek, Ismail Ay and Seda Gonenc (Netgsm, Turkey); Suleyman Tosun (Hacettepe University, Turkey)</i>

4. **Hop-2 IEEE 802.15.5 Optimization framework for resource allocation with Service Differentiation,**
Samar Sindian (Islamic University of Lebanon; IUL, Lebanon)
5. **A Two-Stage Relay Selection and Power Allocation Algorithm for NOMA-Based Multicast Cognitive Radio Networks,**
Mohammed W. Baidas (Kuwait University, Kuwait); Emad Alsusa (Manchester University, United Kingdom); Khairi A. Hamdi (University of Manchester, United Kingdom)
6. **Capacity guaranteed sleep mode algorithm for 5G femtocell tier,**
Christos J Bouras (University of Patras CTI;P-Diophantus; University of Patras, Greece); Georgios Diles (Computer Engineering and Informatics Dept., University of Patras, Greece); Konstantinos Nikolareas (University of Patras, Greece)

Session B6:Advances in Wireless Communications I

Room: Galata

Chair: Dr. Xing Liu (Sichuan University, P.R. China)

1. **CS-Based Multiuser Detector for SCMA Systems,**
Mehmet Hakan Durak and Ozgur Ertug (Gazi University, Turkey)
2. **The Presence of Thermal, Shot, Impulsive and Flicker Noise at Millimeter-Wave Frequencies,**
Hasan Amca (Eastern Mediterranean University, Turkey)
3. **An Interference Mitigation Scheme For Millimetre Wave Heterogeneous Cloud Radio Access Network with Dynamic RRH Clustering,**
Zainab Fakhri (Brunel University, United Kingdom); Firas Sabir (Lecturer, United Kingdom); Hamed Saffa Al-Raweshidy (University of Brunel, United Kingdom)
4. **Investigation of Ionospheric Scintillation and Total Electron Content during Maximum and Minimum Solar Cycle,**
Norsuzila Ya'acob , Noraisyah Tajudin, Azita Laily Yusof, Murizah Kassim, Nur Zahraa' Zaharudin and Suzi Seroja Sarnin (Universiti Teknologi MaRa, Malaysia)
5. **On the Average Hamming Correlation of Frequency-Hopping Sequence Sets With Low Hit Zone,**
Xing Liu (Sichuan University, P.R. China); Liang Zhou (UESTC, P.R. China); Qi Zeng (Sichuan University, P.R. China); Xianhua Niu (University of Electronic Science and Technology of China; Xihua University, P.R. China)

Session B7: Advances in Wireless Communications II

Room: *Fatih*

Chair: *Dr. Ali S Rachini (Lebanese University, Lebanon)*

1. **AMP-based Detector for Uplink OFDM-IDMA with Carrier Frequency Offset,**
Ranran He, Jiesi Kang, Yue Xiao and Bin Fu (University of Electronic Science and Technology of China, P.R. China)
2. **Performance analysis of OFDM-IM over Faded Shadowing Channel with co-channel interference,**
Ibrahim Aboharba (University of Western Ontario, Canada)
3. **Quadrature Spatial Modulation OFDM System Performance in the Presence of High Power Amplifier Nonlinearities,**
Anas Alashqar and Raed Mesleh (German Jordanian University, Jordan)
4. **Dual-Mode Index Modulation Aided OFDM with Generalized Prefix,**
Yusuf Acar (Istanbul Kultur University, Turkey); Sultan Aldırmaz Çolak (Kocaeli University, Turkey); Todor Cooklev (Indiana University Purdue University Fort Wayne, USA)
5. **Performance of FBMC in 5G Mobile Communications Over Different Modulation Techniques,**
Ali S Rachini (Lebanese University, Lebanon)

Session B8: Trust, Security and Privacy II

Room: *Taksim*

Chair: *Dr. Mehmet Demirci (Gazi University, Turkey)*

1. **Proving Yourself: Addressing the Refugee Identity Crisis with Bayesian Chain Probability & Digital Footprints,**
Juanita Blue, Joan V Condell and Tom Lunney (University of Ulster, United Kingdom)
2. **Employing a Continuous Measurement Process During Digital Tool Validation,**
Khaled Rabieh (Sam Houston State University, USA); Nicolas Hughes (Harris County Public Defender's Office; Sam Houston State University, USA); Ahmet Furkan Aydogan (Sam Houston State University, USA; Fırat University, Turkey)
3. **DoS Attack Detection using Packet Statistics in SDN,**
Nail Göksel and Mehmet Demirci (Gazi University, Turkey)

	<p>4. A Comparative Study of Biometric Authentication in Cloud Computing, <i>Asiya Abdus Salam (IAU, Saudi Arabia); Nazar Saqib (National University of Science and Technology Islamabad Pakistan, Pakistan); Tarfah Alsultan (Imam Abdulrahman Bin Faisal University, Saudi Arabia); Khalid Alissa (IAU; KACST, Saudi Arabia)</i></p> <p>5. Can I Trust Her? Intelligent Personal Assistants and GDPR, <i>Eoghan Furey (Letterkenny Institute of Technology, Ireland); Juanita Blue (University of Ulster, United Kingdom)</i></p> <p>6. Reliable Transmission Scheme Against Security Attacks in Wireless Sensor Networks, <i>Nazli Siasi (University of South Florida, USA); Adel Aldalbahi (King Faisal University, Saudi Arabia); Mohammed Jasim (Valparaiso University; University of South Florida, USA)</i></p>
4:00 pm – 4:30 pm	Coffee Break
4:30 pm – 5:00pm	Best Paper Awards Ceremony
6:30 pm	Gala Dinner

Day 3 – Thursady June 20, 2019	
Time	Event
9:00 am – 9:45 am	<p>Keynote Speaker 5: Dr. Ömer Köksal (Aselsan, Turkey)</p> <p>Chair: Prof. Lidong Zhu (University of Electronic Science and Technology of China, P.R. China)</p> <p>Room: Istanbul</p>
9:40 am – 9:50 am	Short Break
9:50 am – 10:35 am	<p>Keynote Speaker 6: Prof. Latif Ladid (University of Luxembourg, Luxembourg)</p> <p>Chair: Prof. Jihene Rezgui (College Maisonneuve, Montreal, Canada)</p> <p>Room: Istanbul</p>
10:35 am – 11:00 am	Coffee Break
11:00 am – 1:00 pm	<p>Session C1: Internet of Things and Smart Cities IV</p> <p>Room: Topkapi</p> <p>Chair: Dr. Andres Munoz-Arcentales (Universidad Politécnic de Madrid, Spain; Escuela Superior Politécnic del Litoral, Ecuador)</p> <ol style="list-style-type: none"> 1. Live Video Streaming Application with Geo-Tagging to alert authorities about an on-going crime, Muntaha Saleem (Queen Mary University of London, United Kingdom) 2. A New Approach to Simulating Node Deployment for Smart City Applications Using Geospatial Data, Izzet F Senturk and Gaoussou Kebe (Bursa Teknik Universitesi, Turkey) 3. Emotion Recognition Based on Decoupling the Spatial Context from the Temporal Dynamics of Facial Expressions, Rami Alazrai (German Jordanian University, Jordan); Khalil M. Ahmad Yousef (Hashemite University, Jordan); Mohammad I. Daoud (German Jordanian University, Jordan) 4. A New CEP-based Air Quality Prediction Framework for Fog based IoT, Metehan Guzel and Suat Özdemir (Gazi University, Turkey) 5. Context-Aware Operation-Based Access Control for Internet of Things Applications, Didem Genç (Izmir Instute of Technology, Turkey); Emrah Tomur (Ericsson Research, Turkey); Yusuf Erten (Izmir Institute of Technology, Turkey)

Session C2: Trust, Security and Privacy III

Room: Galata

Chair: Dr. Khaled Rabieh (Sam Houston State University, USA)

1. **Research on Executive Control Strategy of Mimic Web Defense Gateway**, Chen Shuangxi and Gaoning Pan (Zhejiang University, P.R. China); Chunming Wu (College of Computer Science, Zhejiang University, P.R. China); Xinyue Jiang (Zhejiang University, P.R. China)
2. **A Fair and Privacy-preserving Reservation Scheme for Charging Electric Vehicles**, Khaled Rabieh (Sam Houston State University, USA); Ahmet Furkan Aydogan (Sam Houston State University, USA; Firat University, Turkey)
3. **Finding a needle in a haystack - A comparative study of IPv6 scanning methods**, Erik Bergenholtz, Dragos Ilie, Andrew Moss and Emiliano Casalicchio (Blekinge Institute of Technology, Sweden)
4. **A Decentralized Multi-ruling Arbiter for Cyberspace Mimicry Defense**, Congqi Shen (ZheJiang Lab, P.R. China); Chen Shuangxi and Chunming Wu (Zhejiang University, P.R. China)
5. **Side Channel Analysis Using EM Radiation of RSA Algorithm Implemented on Raspberry Pi**, Ersin Hatun (Hugin Retail Solutions; Istanbul Technical University, Turkey); Gökhan Kaya (Gebze Technical University, Turkey); Elif Buyukkaya (Istanbul Sehir University, Turkey); Berna Ors (Istanbul Technical University, Turkey)
6. **Comparative Study of Security Methods against DDOS Attacks in Cloud Computing Environment**, Sabrine Hedjaz (University Abderrahmane Mira, Algeria); Abderrahmane Baadache (University A. Mira of Bejaia, Algeria); Fouzi Semchedine (University of Setif, Algeria)

Session C3: Advances in Communications and Networking

Room: Fatih

Chair: Dr. Mohammed W. Baidas (Kuwait University, Kuwait);

1. **Scaled Conjugate Gradient Neural Network for Optimizing Indoor Positioning System**, Nour Abura'ed, Shadi Atalla, Husameldin Mukhtar, Mina Ahmed and Wathiq Mansoor (Universithy of Dubai, United Arab Emirates)

2. **A Fully Distributed Fault-Tolerant Cluster Head Selection Algorithm for Unit Disk Graphs,**
Ozkan Arapoglu and Orhan Dagdeviren (Ege University, Turkey)
3. **A Matching-Theoretic Approach to Distributed SWIPT in Ad-Hoc Wireless Networks,**
Mohammed W. Baidas (Kuwait University, Kuwait); Masoud Afghah (University of Toronto, Canada); Fatemeh Afghah (Northern Arizona University, USA)
4. **A Semi-Automated User-Centric Decision System for Green Communications Incorporating the Particle Swarm Optimization Algorithm,**
Ashraf A Tahat, Omar Saraereh, Abdelrahman Mohammad, Qusai Abu-Khlaif, Lara Alqatarneh and Zaina Abu-Shamma (Princess Sumaya University for Technology, Jordan)

Session C4: Next Generation Networks and Communications

Room: *Taksim*

Chair: *Dr. Tanir Özçelebi (Eindhoven University of Technology, The Netherlands)*

1. **An Implementation of Network Service Chaining for SDN-enabled Mobile Packet Data Networks,**
Yekta Turk (Ericsson, Turkey); Engin Zeydan (CTTC, Spain)
2. **Blockchain Enabled Distributed Cooperative D2D Communications,**
Yulan Gao, Mingming Wu, Yue Xiao, Ping Yang and Bin Fu (University of Electronic Science and Technology of China, P.R. China); Dongyan Wang (Tencent Company, P.R. China)
3. **Examining Liberalization of Railway Communication Services,**
Fatemeh Hajizadeh, Maziar Yazdani and Saeed Ghazi Maghrebi (Yadegar-e-Imam Khomeini (RAH) Branch, Islamic Azad University, Iran)
4. **Performance Evaluation of Thread Protocol based Wireless Mesh Networks for Lighting Systems,**
Srikanth Sistu, Qingzhi Liu and Tanir Özçelebi (Eindhoven University of Technology, The Netherlands); Esko Dijk and Teresa Zotti (Signify Research, The Netherlands)

	<p>5. On the Usage of DSCP and ECN Codepoints in Internet Backbone Traffic Traces for IPv4 and IPv6, <i>Nils Rodday (Universität der Bundeswehr München; University of Twente, Germany); Klement Streit (Bundeswehr University Munich; Research Institute CODE, Germany); Gabi Dreo Rodosek (Universität der Bundeswehr München, Germany); Aiko Pras (University of Twente, The Netherlands)</i></p> <p>6. Poster - Development of 24GHz millimeter wave radar for energy-saving in an intelligent street lighting system, <i>Seongeon Song (DGIST radar lab., Korea); Sang-Dong Kim (Daegu Geongbuk Institute of Science and Technology, Korea); Young-Seok Jin (DGIST, Korea); ChunHwan Nam (HyuinJIN Co., LTD, Korea); Sunghae Ye (HYUINJIN CO., LTD, Korea); Jong hun Lee (DGIST (Daegu GyongBuk Institue of Science and Technology, Korea)</i></p>
1:00 pm – 1:30 pm	Closing Ceremony
1:30 pm – 2:30 pm	Lunch
	Enjoy Istanbul !

Thank You Our Generous Sponsors

Technical Sponsors



Supporters



Patrons

Platinum



Gold Sponsor



Silver Sponsor

