

# **2023 IEEE 28th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD 2023)**

**Edinburgh, United Kingdom  
6 – 8 November 2023**



**IEEE Catalog Number: CFP23CAM-POD  
ISBN: 979-8-3503-0350-6**

**Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP23CAM-POD
ISBN (Print-On-Demand):	979-8-3503-0350-6
ISBN (Online):	979-8-3503-0349-0
ISSN:	2378-4865

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

Monday, November 6

Monday, November 6 11:00 - 12:00

## S1: Quality of Service

Room: River Suite

Chair: Kübra Duran (Edinburgh Napier University, United Kingdom (Great Britain))

### ***Towards Data Analytics Based PIM Detection in Wireless Networks***

Eren Deniz (Yupana Inc, USA & Ege University, Turkey); Gokcan Cantali (Bogazici University, Turkey); Ozcan Ozay and Onur Yildirim (Yupana Inc, USA); Gürkan Gür (Zurich University of Applied Sciences (ZHAW), Switzerland); Fatih Alagoz (Bogazici University, Turkey)

pp. 1-6

### ***Blockchain-Empowered Immutable and Reliable Delivery Service (BIRDS) Using UAV Networks***

Sana Hafeez and Habib Ullah Manzoor (University of Glasgow, United Kingdom (Great Britain)); Lina Mohjazi (Glasgow University, United Kingdom (Great Britain) & School of Engineering, United Kingdom (Great Britain)); Ahmed Zoha, Muhammad Ali Imran and Yao Sun (University of Glasgow, United Kingdom (Great Britain))

pp. 7-12

### ***5GMediaHUB QoS/QoE Monitoring Engine***

Apostolos Siokis (Iquadrat Informatica, Spain); Stefania Stamou (Foundation for Research and Technology Hellas, Greece); Kostas Ramantas (Iquadrat Informatica, Greece); Ryan McCloskey and Martin Tolan (South East Technological University, Ireland); George Margetis (Foundation for Research and Technology - Hellas (FORTH), Greece); Christos Verikoukis (University of Patras, Greece)

pp. 13-18

## S6: Traffic Management

Room 2/116

Chair: Yagmur Yigit (Edinburgh Napier University, United Kingdom (Great Britain))

### ***Scalable MU-MIMO User Scheduling for Next-Generation Wireless Networks***

Juan C De Luna Ducoing and Konstantinos Nikitopoulos (University of Surrey, United Kingdom (Great Britain))

pp. 19-24

### ***Dynamic Packet Content Construction and Processing for End-to-End Streaming in 6G***

Stuart Clayman (University College London (UCL), United Kingdom (Great Britain)); Emre Karakiş (Ege University & Suleyman Demirel University, Turkey); Mustafa Toker (Ege University, Turkey); Elif Ak (Istanbul Technical University, Turkey); Berk Canberk (Edinburgh Napier University, United Kingdom (Great Britain)); Muge Sayit (University of Essex, United Kingdom (Great Britain))

pp. 25-30

***Power Delay Profile Based Ranging via Approximate EM-ReVAMP***

Fangqing Xiao, Zilu Zhao and Dirk Slock (EURECOM, France)

pp. 31-36

Monday, November 6 13:00 - 14:45

**SS2-I: Deploying Applications in the 6G Era: The Dawn of Highly-secure, Trustworthy, Scalable and Adaptable ecosystems (I)**

Room 2/116

***Intelligent Node Deployment in Smart Spaces to Optimize Sensor Signal and Data Acquisition***

Andreas Andreou (University of Nicosia, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Jordi Mongay Batalla (Warsaw University of Technology, Poland); Evangelos K. Markakis (Hellenic Mediterranean University, Greece)

pp. 37-42

***TRUSTEE's Framework for DPIAs: Safeguarding Personal Data in the Digital Era***

Athanasios Vasileios Grammatopoulos (University of Piraeus, Greece); Ioannis Stylianou (University of Piraeus, Greece & InQbit Innovations SRL, Romania); Katarzyna Barud and Clara Saillant (University of Vienna, Austria); Ilias Politis (Athena Research Center, Greece & InQbit Innovations SRL, Romania)

pp. 43-48

***Architectural Insights into TRUSTEE's Authentication Manager: Leveraging SSI and eIDAS***

Athanasios Vasileios Grammatopoulos (University of Piraeus, Greece); Ioannis Stylianou (University of Piraeus, Greece & InQbit Innovations SRL, Romania); Eneko Gómez Ramos (TECNALIA Basque Research and Technology Alliance, Spain); Ivan Gutierrez-Aguero (TECNALIA, Spain); Cristina Regueiro (TECNALIA Basque Research and Technology Alliance (BRTA), Spain); Ilias Politis (Athena Research Center, Greece & InQbit Innovations SRL, Romania)

pp. 49-54

***6GENABLERS: A Holistic Approach to Establish Pervasive Trust in 6G Networks***

Muhammad Asad (i2CAT Foundation Barcelona & Universitat Pompeu Fabra Barcelona, Spain); Adriana Fernández-Fernández (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Hatim Chergui (i2CAT Foundation, Spain); Mario Montagud (Universitat de València & i2CAT Foundation, Spain); Muhammad Shuaib Siddiqui (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Sergi Fernández and Maxime Compastie (i2CAT Foundation, Spain)

pp. 55-60

Monday, November 6 15:15 - 17:00

**SS1: 2nd Workshop on Distributed and Intelligent Edge Computing for 6G Communications**

Room: River Suite

### ***An Evolutionary Edge Computing Architecture for the Beyond 5G Era***

Elli Kartsakli (Barcelona Supercomputing Center, Spain); Jordi Pérez-Romero (Universitat Politècnica de Catalunya (UPC), Spain); Nikolaos Bartzoudis (CTTC, Spain); Oriol Sallent (Universitat Politècnica de Catalunya, Spain); Oluwatayo Kolawole (Samsung R&D Institute, United Kingdom (Great Britain)); Xin Tao (Ericsson Research, Sweden); Swarup Kumar Mohalik (Ericsson Research, India); Tomasz Mach (Samsung R&D Institute UK, United Kingdom (Great Britain)); Sige Liu and Yansha Deng (King's College London, United Kingdom (Great Britain)); Gianluca Mandó (Ground Transportation Systems Italia SRL, Italy); Angelos Antonopoulos (Nearby Computing, Spain); Valerio Frasca (Intel Deutschland GmbH, Germany); Gokhan Kalem and Semiha Koşu (Turkcell Technology, Turkey); Fred Buining, Ir. (HIRO-MicroDataCenters BV, The Netherlands); Eduardo Quiñones (Barcelona Supercomputing Center, Spain)

pp. 61-67

### ***Blockchain-enabled Clustered and Scalable Federated Learning (BCS-FL) Framework in UAV Networks***

Sana Hafeez (University of Glasgow, United Kingdom (Great Britain)); Lina Mohjazi (Glasgow University, United Kingdom (Great Britain) & School of Engineering, United Kingdom (Great Britain)); Muhammad Ali Imran and Yao Sun (University of Glasgow, United Kingdom (Great Britain))

pp. 68-73

## **SS2-II: Deploying Applications in the 6G Era: The Dawn of Highly-secure, Trustworthy, Scalable and Adaptable ecosystems (II)**

Room 2/116

### ***OPSEC VS Leaked Credentials: Password Re-use in Large-Scale Data Leaks***

Gabor Uzonyi, Nikolaos Pitropakis and Sean McKeown (Edinburgh Napier University, United Kingdom (Great Britain)); Ilias Politis (Athena Research Center, Greece & InQbit Innovations SRL, Romania)

pp. 74-79

### ***Providing Security Assurance & Hardening for Open Source Software/Hardware: The SecOPERA approach***

Apostolos Fournaris (Industrial Systems Institute, Research Center ATHENA, Greece); Christos Tselios (University of Patras & ISI, Greece); Evangelos Haleplidis (University of Piraeus, Greece); Elias Athanasopoulos and Antreas Dionysiou (University of Cyprus, Cyprus); Dimitris Mitropoulos (University of Athens, Greece); Panos Louridas (Athens University of Economics and Business, Greece); Georgios Christou (FORTH, Greece); Manos Athanatos (Foundation for Research and Technology - Hellas, Greece & Technical University of Crete, Greece); George Hatzivasilis (FORTH-ICS, Greece); Konstantinos Georgopoulos (Technical University of Crete, Greece); Costas Kalogeros (AEGIS IT RESEARCH LTD, Germany); Christos Kotselidis (University of Manchester, United Kingdom (Great Britain)); Simon Vogl (VoXel Interaction Design, Austria); Francois Hamon (GreenCityzen, France); Sotiris Ioannidis (Technical University of Crete, Greece)

pp. 80-86

Tuesday, November 7

Tuesday, November 7 8:30 - 9:30

## S2: Networking and Information management

Room: River Suite

Chair: Alessandro Calvio (University of Bologna, Italy)

### ***Analysis of Age of Information in Slotted ALOHA Networks With Different Strategic Backoff Schemes***

Alessandro Buratto (Università Degli Studi di Padova, Italy); Leonardo Badia (Università degli Studi di Padova, Italy)

pp. 87-92

### ***Efficient Generation of Approximate Region-based Geo-maps from Big Geotagged Data***

Isam Mashhour Al Jawarneh (University of Sharjah, United Arab Emirates); Luca Foschini (University of Bologna, Italy); Antonio Corradi (University of Bologna & CIRI ICT, Italy)

pp. 93-98

### ***Impact of Transmission Delays Over Age of Information Under Finite Horizon Scheduling***

Alberto Zancanaro (University of Padua, Italy); Andrea Munari (German Aerospace Center (DLR), Germany); Giulia Cisotto (University of Milano-Bicocca, Italy & University of Padova, Italy); Leonardo Badia (Università degli Studi di Padova, Italy)

pp. 99-104

## S7: Energy Efficiency

Room 2/116

Chair: Yagmur Yigit (Edinburgh Napier University, United Kingdom (Great Britain))

### ***Energy-Efficient QoS-Aware Application and Network Configuration for Next-Gen IoT***

Juan Luis Herrera (Dipartimento di Informatica Scienza e Ingegneria, University of Bologna, Italy); Jaime Galán-Jiménez and Javier Berrocal (University of Extremadura, Spain); Paolo Bellavista and Luca Foschini (University of Bologna, Italy)

pp. 105-110

### ***Genetic Algorithm for Energy Efficiency in Wireless Sensor Networks***

Darius Guiao and Petros Spachos (University of Guelph, Canada)

pp. 111-116

### ***Energy Efficiency and Localization Based on Gaussian and Markovian Mobility for Salp Swarm Algorithm...N/A***

Maher Jabberi (University of Sousse, Tunisia); Bechir Ben Gouissem (ENIT, Tunisia); Adel M. Alimi (REGIM, University of Sfax, National School of Engineers, Tunisia); Imed Romdhani (Edinburgh Napier University, United Kingdom (Great Britain))

Tuesday, November 7 11:00 - 12:00

## S3: Digital Twins

Room: River Suite

Chair: Elif Ak (Istanbul Technical University, Turkey)

### ***Optimal Location Assignment for Data-Driven Warehouse Towards Digital Supply Chain Twin***

Muge ErelOzcevik and Yusuf Ozcevik (Manisa Celal Bayar University, Turkey); Elif Bozkaya (National Defence University Turkish Naval Academy, Turkey); Tuğçe Bilen (Turk Telekom, Turkey)  
pp. 117-122

### ***How to synchronize Digital Twins? A Communication Performance Analysis***

Lal Verda Cakir (Edinburgh Napier University, United Kingdom (Great Britain)); Sarah Al-Shareeda (Istanbul Technical University, Turkey); Sema Oktug (Istanbul Technical University, Turkey); Mehmet Ozdem (Turk Telekom, Turkey); Matthew Broadbent and Berk Canberk (Edinburgh Napier University, United Kingdom (Great Britain))  
pp. 123-127

### ***A Simulation-based Decision Support System for Urban Traffic Management***

Alessandro Calvio (University of Bologna, Italy); Anish Jindal (Durham University & University of Essex, United Kingdom (Great Britain)); Armir Bujari (University of Bologna, Italy); Gagangeet Singh Aujla (Durham University, United Kingdom (Great Britain)); Luca Foschini (University of Bologna, Italy)  
pp. 128-133

## S8: Content delivery

Room 2/116

Chair: Alessandro Calvio (University of Bologna, Italy)

### ***Learning-Based Latency-Constrained Fronthaul Compression Optimization in C-RAN***

Axel Grönland (KTH, Sweden); Bleron Klaiqi (Huawei Technologies, Sweden); Xavier Gelabert (Huawei Technologies Sweden AB, Sweden)  
pp. 134-139

### ***Source-Coded Multicast for Efficient Content Delivery***

Tomas Lestayo (University of Vigo & SATEC, Spain); Manuel Fernández Veiga (Universidade de Vigo, Spain)  
pp. 140-145

### ***A Novel Self-Optimization Algorithm for 5G HetNets Using Automatic Weight Function and TOPSIS***

Emre Gures (Czech Technical University in Prague, Czech Republic); Ibraheem Shayea (Istanbul Technical University (ITU), Turkey); Ibrahim Yazici (Türk Telekom, Turkey & Istanbul Technical University, Turkey); Sawsan Ali Saad (University of Ha'il, Saudi Arabia); Ayman A. El-Saleh (A'Sharqiyah University (ASU), Oman)  
pp. 146-151

Tuesday, November 7 13:00 - 14:45

## S9: UAVs

Room 2/116

Chair: Lal Verda Cakir (Edinburgh Napier University, United Kingdom (Great Britain))

### ***Semantics-Empowered UAV-assisted Wireless Communication System for Wildfire Detection***

Chathuranga Basnayaka (Padukka & SLTC, Sri Lanka); Dushantha Nalin K. Nalin.K. Jayakody (Universidade Lusófona, Portugal & Sri Lanka Institute of Information Technology, Sri Lanka); Marko Beko (ULHT/UNINOVA & UNINOVA, Caparica, Portugal)  
pp. 152-157

### ***Theoretical Limits of SoOP TDOA Localization of Unmanned Systems with Imperfect Synchronization***

Khaled Walid Elgammal (Istanbul Medipol University, Turkey); Berke Can Turan (Sivas University of Science and Technology, Turkey); Oğuz Bedir (Istanbul Medipol University, Turkey); Hasari Celebi (Gebze Technical University, Turkey); Marwa Qaraqe (Hamad Bin Khalifa University, Qatar); Mehmet Kemal Ozdemir (Istanbul Medipol University, Turkey)  
pp. 158-163

### ***Utilizing LoRa for Control Link in Software-defined Aerial Networks: Analysis and Implementation***

Zeynep Betul Arslanbenzer, Busra Bayram, Talip Tolga Sari and Gokhan Secinti (Istanbul Technical University, Turkey)  
pp. 164-169

## SS3-I: Cybersecurity of Critical Infrastructures (CCI'23) (I)

Room: River Suite

### ***Enhancing Mac OS Malware Detection through Machine Learning and Mach-O File Analysis***

Andrew Thaeler (Edinburgh Napier University, Greece); Yagmur Yigit, Leandros A. Maglaras, Bill Buchanan, Naghmeh Moradpoor and Gordon Russell (Edinburgh Napier University, United Kingdom (Great Britain))  
pp. 170-175

### ***Identity Management through a global Discovery System based on Decentralized Identities***

Konstantinos Lampropoulos, Nikos Kyriakoulis, Giorgos Georgakakos and Spyros Denazis (University of Patras, Greece)  
pp. 176-181

### ***Scalable Multi-domain Trust Infrastructures for Segmented Networks***

Sam Grierson, William J Buchanan, Craig J Thomson, Baraq Ghaleb and Leandros A. Maglaras (Edinburgh Napier University, United Kingdom (Great Britain)); Chris Eckle (Condatis, United Kingdom (Great Britain))  
pp. 182-187

### ***Detecting and Mitigating MitM Attack on IoT Devices Using SDN...N/A***

Neder Karmous (ENIT & SUPCOM, Canada); Mohamed Ould-Elhassen Aoueileyine (University of Carthage, SUPCOM, Innov'COM, Tunisia); Lamia Romdhani (Qatar University, Qatar); Neji Youssef



Tuesday, November 7 15:15 - 17:00

## SS3-II: Cybersecurity of Critical Infrastructures (CCI'23) (II)

Room: River Suite

### ***PermutEx: Feature-Extraction-Based Permutation - A New Diffusion Scheme for Image Encryption Algorit***

Muhammad Shahbaz Khan, Jawad Ahmad and Ahmed Y Al-Dubai (Edinburgh Napier University, United Kingdom (Great Britain)); Zakwan Jaroucheh (Edinburgh Napier University & School of Computing, United Kingdom (Great Britain)); Nikolaos Pitropakis and William J Buchanan (Edinburgh Napier University, United Kingdom (Great Britain))  
pp. 188-193

### ***Double Public Key Signing Function Oracle Attack on EdDSA Software Implementations***

Sam Grierson (Edinburgh Napier University, United Kingdom (Great Britain)); Konstantinos Chalkias (Mysten Labs Research, USA); William J Buchanan and Leandros A. Maglaras (Edinburgh Napier University, United Kingdom (Great Britain))  
pp. 194-199

### ***PASSION: Permissioned Access Control for Segmented Devices and Identity for IoT Networks***

Hisham Ali, Jawad Ahmad, Mwrwan Abdelrazig Abubakar and William J Buchanan (Edinburgh Napier University, United Kingdom (Great Britain)); Zakwan Jaroucheh (Edinburgh Napier University & School of Computing, United Kingdom (Great Britain))  
pp. 200-205

## SS4: Edge Intelligence and Artificial Intelligence of Things (Edge AI & AIoT)

Room 2/116

### ***A Differential Privacy Approach for Privacy-Preserving Multi-Modal Stress Detection***

Moudy Alshareef and Mona Jaber (Queen Mary University of London, United Kingdom (Great Britain)); Ahmed M. Abdelmoniem (Queen Mary University of London, United Kingdom (Great Britain) & Assiut University, Egypt)  
pp. 206-212

### ***A Carbon Tracking Model for Federated Learning: Impact of Quantization and Sparsification***

Luca Barbieri (Politecnico di Milano, Italy); Stefano Savazzi (Consiglio Nazionale delle Ricerche CNR, Italy); Sanaz Kianoush (National Research Council of Italy (CNR), Italy); Monica Nicoli (Politecnico di Milano, Italy); Luigi Serio (CERN - European Organization for Nuclear Research, Switzerland)  
pp. 213-218

### ***Machine Learning Based Resource Utilization Prediction in the Computing Continuum***

Christian Bauer (University of Klagenfurt, Austria); Narges Mehran (Institute of Information Technology, Austria); Radu Prodan (University of Klagenfurt, Austria); Dragi Kimovski (University of

Klagnefurt, Austria)

pp. 219-224

***Edge AI Inference in Heterogeneous Constrained Computing: Feasibility and Opportunities***

Roberto Morabito (EURECOM & University of Helsinki, Finland); Mallik Tatipamula (Ericsson Research, USA); Sasu Tarkoma (University of Helsinki, Finland); Mung Chiang (Purdue University, USA)

pp. 225-232

Wednesday, November 8

Wednesday, November 8 8:30 - 9:30

**S10: Security**

Room 2/116

Chair: Elif Ak (Istanbul Technical University, Turkey)

***Enhancing QoE Assessment in FWA: Leveraging Network KPIs and User Feedback Analysis***

Hakan Gokcesu (Turkcell Technology, Turkey); Ozgur Ercetin (Sabanci University, Turkey); Gokhan Kalem (Turkcell Technology, Turkey)

pp. 233-239

***Assessment of Adversarial Attacks on Traffic Sign Detection for Connected and Autonomous Vehicles***

Aaditya Suri, Binod Vaidya and Hussein T. Mouftah (University of Ottawa, Canada)

pp. 240-245

***Quantum-Resistant TLS 1.3: A Hybrid Solution Combining Classical, Quantum and Post-Quantum Cryptography***

Carlos Rubio Garcia and Abraham Cano Aguilera (Eindhoven University of Technology, The Netherlands); Juan José Vegas Olmos (NVIDIA Corporation, Israel); Idelfonso Tafur Monroy and Simon Rommel (Eindhoven University of Technology, The Netherlands)

pp. 246-251

***Secure Multi-Point Coordinated Beamforming using Deep Learning in 5G and Beyond Networks***

Utku Ozmat (Information and Communications Research Group, Informatics Institute, Istanbul Technical & Turk Telekom, Turkey); Mehmet Akif Yazici (Istanbul Technical University, Turkey); Mehmet F Demirkol (Prorize LLC, Turkey)

pp. 252-257

***Securing Southbound Interface in SDNs: Utilizing Support Vector Machines for OpenFlow Packet Classification***

Ali Gökhan Avran and Elif Ak (Istanbul Technical University, Turkey); Kübra Duran (Edinburgh Napier University, United Kingdom (Great Britain)); Gökhan Yurdakul (BTS Group, Turkey); Gokhan Secinti (Istanbul Technical University, Turkey)

pp. 258-263

## S4: Internet of Things

Room: River Suite

Chair: Lal Verda Cakir (Edinburgh Napier University, United Kingdom (Great Britain))

### ***VMD Integrated FMCW Radar System for Non-Invasive Pediatric Vital Sign Estimation***

Fahad Ayaz, Basim Alhumaily, Sajjad Hussain, Muhammad Ali Imran and Ahmed Zoha (University of Glasgow, United Kingdom (Great Britain))

pp. 264-269

### ***A distributed user-oriented IoT-based Air Pollution Monitoring***

José Jorge Figueroa Figueroa, Hao Shen and Hamed Ahmadi (University of York, United Kingdom (Great Britain)); Berk Canberk (Edinburgh Napier University, United Kingdom (Great Britain))

pp. 270-275

### ***Context-Aware Analysis of Patient Monitoring in Internet of Things Systems...N/A***

Yasmine Ben Dhiab (University of Carthage, Tunisia); Mohamed Ould-Elhassen Aoueilleyine (University of Carthage, SUPCOM, Innov'COM, Tunisia); Manel Abdelkader (University of Tunis & Tunis Business School, Tunisia); Lamia Romdhani (Qatar University, Qatar); Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia)

Wednesday, November 8 11:00 - 12:00

## S11: Security and Safety

Room 2/116

Chair: Kübra Duran (Edinburgh Napier University, United Kingdom (Great Britain))

### ***A Comparative Study of VANET Routing Protocols for Safety Applications***

Kevin Coyle, Craig J Thomson, Isam Wadhaj and Baraq Ghaleb (Edinburgh Napier University, United Kingdom (Great Britain))

pp. 276-282

### ***Emerging Challenges and Solutions in RPL Protocol: Research Review***

Joshua Teddy Ibibo (Edinburgh Napier University, United Kingdom (Great Britain))

pp. 283-289

### ***Joint Computation and Communication Resource Allocation for Unmanned Aerial Vehicle NOMA Systems***

Tan Do-Duy (Ho Chi Minh City University of Technology and Education, Vietnam); Dang Van Huynh (Queen's University Belfast, United Kingdom (Great Britain)); Emiliano Garcia-Palacios (Queens University Belfast, United Kingdom (Great Britain)); Tuan-Vu Cao (Norwegian Institute for Air Research, Norway); Vishal Sharma (Queen's University Belfast, United Kingdom (Great Britain)); Trung Q. Duong (Memorial University of Newfoundland, Canada)

pp. 290-295

## S5: Wireless Networks

Room: River Suite

Chair: Lal Verda Cakir (Edinburgh Napier University, United Kingdom (Great Britain))

***Service Modeling and Delay Analysis of Packet Delivery over a Wireless Link***

Yan Zhang (Norwegian University of Science and Technology (NTNU), Norway); Yuming Jiang (Norwegian University of Science and Technology, Norway); Songwei Fu (University of Duisburg-Essen, Germany)

pp. 296-301

***Characterizing Wireless Link Throughput with eBPF and Hardware Timestamps***

Simon Sundberg, Johan Garcia and Anna Brunstrom (Karlstad University, Sweden)

pp. 302-308

***A DigiLogue Receiver Design for Tbps Wireless Transmissions over Flat-Fading Channels***

Mahmoud Mojarrad Kiasaraei, Rahim Tafazolli and Konstantinos Nikitopoulos (University of Surrey, United Kingdom (Great Britain))

pp. 309-314