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Monday, October 21

Monday, October 21 9:00 - 10:30

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Room: Galery 1

Chair: John Lakoumentas (University of Patras, Greece)

Automated Testing and Virtual Commissioning of Automation Networks

Dirk Schulz (ABB AG Corporate Research Center, Germany); Amin Shahraki (ABB, Germany)

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João Pedro Fonseca and Gereziher Adhane (Iquadrat Informatica S. L., Spain); Konstantinos Togias (Industrial Systems Institute, Greece); Jhofre Ojeda, Swastika Roy, Golshan Famitafreshi, Kostas Ramantas and John S Vardakas (Iquadrat Informatica S. L., Spain); Christos Verikoukis (University of Patras, Greece)

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Andrei-Vlad Constantin (Realworld Systems Eastern Europe, Romania)

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Michail Rantopoulos (OTE, Greece); Ioannis Chochliouros (Hellenic Telecommunications Organization S.A. (OTE), Greece)

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Irene Lidia Keramidi (University of Peloponnese, Greece); Poulcheria Zervou and John Lakoumentas (Industrial Systems Institute, Greece); Kostas Ramantas (Iquadrat Informatica, Greece); Christos Verikoukis (University of Patras, Greece)

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Named Entity Recognition for Intent-driven network management and configuration...N/A

Maria Eleftheria Vlontzou, Eleni Zarogianni and Vasileios Theodorou (Intracom S.A. Telecom Solutions, Greece)

A Non-Terrestrial Edge Infrastructure Testbed for Early Validation of Industrial Applications

Yannic Breiting, Elizaveta Boriskova, Carlos Guimarães, Alessio Netti and Markus Sauer (Siemens AG, Germany); Hans-Peter Huth (Siemens Corporate Technology, Germany); Florian Zeiger (Siemens AG, Germany)

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Sina Ebrahimi and Faouzi Bouali (Coventry University, United Kingdom (Great Britain)); Olivier Haas (Coventry University & Control Theory and Applications Centre, United Kingdom (Great Britain))

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Non-Terrestrial Networks for Resilient Powering of Railway IIoT...N/A

Nadia Adem (University of Oulu, Finland); Sarah Karmous (University of Tripoli, Libya); Mehdi Bennis (Centre of Wireless Communications, University of Oulu, Finland)

Autoencoder-based CSI compression and Quantization Aspects for CSI Reporting...N/A

Ahmet Serdar Tan (InterDigital Europe, United Kingdom (Great Britain))

Decision-making for human-centric network management: combining AI and domain knowledge...N/A

Francesco Malandrino (CNR-IEIIT, Italy)

Session1: 1st Workshop on Systems and Technologies for IT/OT Integration in industry 4/5.0 Environments (SITE 2024) - 1

Room: Hydra

Chair: Riccardo Venanzi (Universita di Bologna, Italy & University of Ferrara, Italy)

ETHACA - A container-based cyber range for research and education

Nestoras Chouliaras (University of West Attica, Greece); Leandros A. Maglaras (Edinburgh Napier University, United Kingdom (Great Britain)); Ioanna Kantzavelou (University of West Attica, Greece); Grammati Pantziou (University of West Attica & Computer Technology Institute and Press Diophantus, Greece); Panagiota Chouliara-Sidera (University of Thessaly, Greece); Antonis Adamakos (FuzzFree.com, Greece); Panagiotis Chalatsakos (Open University of Cyprus, Cyprus)

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Eren Oluğ and Kıymet Kaya (Istanbul Technical University, Turkey); Resul Tugay (Research Assistant & Istanbul Technical University, Turkey); Şule Gündüz Öğüdücü (Istanbul Technical University, Turkey)

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Andrés García-López, Diego Ramos-Ramos, Santiago García-Gil, José Gómez-delaHiz, Juan Manuel Murillo Rodriguez and Jaime Galán-Jiménez (University of Extremadura, Spain)

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Yuxiang Zheng, Bishmita Hazarika and Trung Q. Duong (Memorial University of Newfoundland, Canada); Keshav Singh (National Sun Yat-sen University, Taiwan); Vishal Sharma (Queen's University Belfast, United Kingdom (Great Britain)); Octavia A. Dobre (Memorial University, Canada)

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Sultan Çoğay, Mertkan Akkoç and Gokhan Secinti (Istanbul Technical University, Turkey)

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Professor, Computer Science, Technical University of Berlin - Self-Driving Networks: Use Cases, Approaches, and Research Challenges

Monday, October 21 12:30 - 14:00

Break

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Demo Session

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Advantages of Deep Reinforcement Learning in Moving Target Defense for Network Slicing Security

Andreas Andreou (University of Nicosia, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Evangelos K. Markakis (Hellenic Mediterranean University, Greece); Athina Bourdena and George Mastorakis (Hellenic Mediterranean University, Greece)

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Andreas Andreou (University of Nicosia, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Evangelos K. Markakis (Hellenic Mediterranean University, Greece); Athina Bourdena and George Mastorakis (Hellenic Mediterranean University, Greece)

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Jhofre Ojeda (Iquadrat Informatica, S.L., Spain); Dimitrios Amaxilatis (Spark Works Ltd., Ireland); Nikolaos Tsironis (Spark Works Ltd, Ireland); Themistoklis Sarantakos (Spark Works Ltd., Ireland); João Pedro Fonseca (Iquadrat Informatica, S.L., Spain); Gereziher Adhane (Iquadrat Informatica S. L., Spain & UOC, Spain); Golshan Famitafreshi (Iquadrat Informatica, S.L., Spain); Swastika Roy (Iquadrat Informatica, S.L, Spain); Shreya K. Chari, Navideh Ghafouri and Kostas Ramantas (Iquadrat Informatica, S.L., Spain); Christos Verikoukis (University of Patras, Greece)

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Harilaos Koumaras (NCSR Demokritos, Greece); Dimitrios Fragkos (Institute of Communication and Computer Systems (ICCS), Greece & University of Peloponnese, Greece); Vasilis Pitsilis (NCSR Demokritos, Greece); George Makropoulos (NCSR Demokritos & National and Kapodistrian University of Athens, Greece); George Lyberopoulos, Eleni Theodoropoulou, Foteini Setaki and Ioanna Mesogiti (Hellenic Telecommunications Organization, Greece); Dimitris Diakakis (Hellenic Telecommunications Organization S.A. (OTE), Greece); Nikolaos Gkatzios (INFOLYSIS P. C., Greece); Konstantinos Fragkos (Netcomany-Intrasoft, Greece); Vaios Koumaras (INFOLYSIS P. C., Greece)

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Prince O Siaw, Ahmad Aldelemy and Ebenezer Adjei (University of Bradford, United Kingdom (Great Britain)); Aslan N. Moqadam (University of Tabriz, Iran); Joaquim Bastos (Instituto de Telecomunicações, Portugal); John Buckley, Pete Twigg, Rami S Qahwaji, Maryann Hardy and Raed A Abd-Alhameed (University of Bradford, United

Kingdom (Great Britain))

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Optimal Digital Twinning of Random Systems with Twinning Rate Constraints

Caglar Tunc (Sabanci University, Turkey)

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Lorenzo Colombi, Matteo Brina, Michela Vespa, Filippo Tabanelli, Simon Dahdal and Elena Bellodi (University of Ferrara, Italy); Riccardo Venanzi (Universita di Bologna, Italy & University of Ferrara, Italy); Mauro Tortonesi (University of Ferrara, Italy); Massimiliano Vignoli (Bonfiglioli Group, Italy); Cesare Stefanelli (University of Ferrara, Italy)

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Andrea Melis (University of Bologna, Italy); Andrea L. Piroddi (University of Bologna, Italy & University of the People, USA); Ozlem Kaya and Roberto Girau (University of Bologna, Italy)

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Beste Kucuk, Asli Conk and Muge ErelOzcevik (Manisa Celal Bayar University, Turkey)

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Reem Abdelaziz Alshamsi (University of Sharjah, United Arab Emirates); Luca Foschini (University of Bologna, Italy); Isam Mashhour Al Jawarneh (University of Sharjah, United Arab Emirates)

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Chair: Alexandros Kostopoulos (Hellenic Telecommunications Organization S.A. (OTE), Greece)

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Apostolis K. Salkintzis (Lenovo Research); Dimitrios Dimopoulos (Lenovo Research, Greece); Nikolaos Petropouleas (Lenovo Research)

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NTN in 6G: Satellite Emulator as an Enabler for Multi-Connectivity Experiments...N/A

Nikolaos Gkatzios (INFOLYSIS P. C., Greece); Konstantinos Fragkos (Netcomany-Intrasoft, Greece); Vaios Koumaras (INFOLYSIS P. C., Greece)

SUNRISE-6G: Demonstrating 6G Federation Concepts over Distributed Research Infrastructures

Mohammadreza Mosahebfard (i2CAT Foundation, Spain & Universitat Politècnica de Catalunya, Spain); August Betzler (i2CAT Foundation, Spain); Mario Montagud (Universitat de València & i2CAT Foundation, Spain); Daniel Camps (i2CAT, Spain); Adriana Fernández-Fernández (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Christos Verikoukis (University of Patras, Greece)

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Nikos Makris (University of Thessaly & CERTH, Greece); Ilias Syrigos (University of Thessaly, Greece & CERTH, Greece); Theodoros Tsourdinis (University of Thessaly, Greece & Sorbonne University, France); Apostolis Prassas, Ippokratis Koukoulis and Thanasis Korakis (University of Thessaly, Greece)

A Business Analysis Framework for 6G Architectures

Alexandros Kostopoulos and Ioannis Chochliouros (Hellenic Telecommunications Organization S.A. (OTE), Greece); Christos Verikoukis (University of Patras, Greece)

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Chair: Sourlas Vasileios (University of Patras, Greece)

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Lazaros Gkatzikis (ICCS, Greece); Markus Wimmer and Marcel Kern (Nokia Germany, Germany); Amr Rizk (Leibniz University Hannover, Germany); Vasilis Sourlas (ICCS-NTUA, Greece)

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Foteini Setaki, Eleni Theodoropoulou and George Lyberopoulos (Hellenic Telecommunications Organization, Greece); Evgenia Petkova-Rasheva (A1BG, Bulgaria)

PDI Support Classification Schema & Novel PDI enabled solutions for CCAM...N/A

Maria Gkemou (CERTH, Greece)

Towards Trust-aware Automotive Task-offloading...N/A

Vasilis Milionis (ICCS, Greece); Stefanos Vasileiadis (Ubitech, European Union); Pavlos Basaras (Institute of Communication and Computer Systems, Greece); Panagiotis Pantazopoulos (Institute of Communication and Computer Systems (ICCS), Greece); Thanassis Giannetsos (Ubitech Ltd., Greece)

5G-IANA: Establishing an Open 5G Experimentation Platform for Advancing Automotive Innovations in Eu...N/A

Xenofon X.vasilakos (Vasilakos, Greece); Vasilis Sourlas (ICCS-NTUA, Greece); Konstantinos V. Katsaros (Institute of Communication and Computer Systems (ICCS), Greece); Dimitrios Klonidis and Thanos Xirofotos (UBITECH, Greece); Angelos Amditis (Institute of Communication and Computer Systems, Greece)

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Break & Demo Session

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Session 7: Security and Digital Twins in 6G

Room: Hydra

Chair: Fabrizio Granelli (University of Trento, Italy)

A Distributed Trustable AI Engine for Anomaly Detection in 6G Networks: Architecture, Use Cases and

George K Xilouris (NCSR Demokritos, Greece); Panagiotis Trakadas (University of Athens, Greece); Nikolaos Nomikos (National and Kapodistrian University of Athens, Greece); Anastasios E. Giannopoulos (National and Kapodistrian University of Athens, Greece & Four Dot Infinity (FDI), Greece); Harilaos Mandilaris (Four Dot Infinity, Greece); Gerasimos Patsourakis (National and Kapodistrian University of Athens, Greece); Panagiotis Gkonis (National Technical University of Athens, Greece); Vasileios Nikolakakis (National and Kapodistrian University of Athens, Greece)

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Yonatan Melese Worku, Petro Mushidi Tshakwanda and Henok Berhanu Tsegaye (University of New Mexico, USA); Christos Christodoulou (The University of New Mexico, USA); Michael Devetsikiotis (University of New Mexico, USA); Claudio Sacchi (University of Trento, Italy)

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Christian Grasso, Giovanni Schembra, Raoul Raftopoulos and Andrea Caruso (University of Catania, Italy)

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An Overview of Security and Privacy Threats for Massive IoT Applications in the 6G Era

Maria Papaioannou (DTU Compute, Denmark); Georgios Mantas (Instituto de Telecomunicações - Pólo de Aveiro, Portugal); Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)

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AI-assisted Agile Propagation Modeling for Real-time Digital Twin Wireless Networks

Ali Saeizadeh, Miead Tehrani-Moayyed and Davide Villa (Northeastern University, USA); J Gordon Beattie, Jr. and Ian C. Wong (VIAVI Solutions, USA); Pedram Johari and Eric W Anderson (Northeastern University, USA); Stefano Basagni (Northeastern University & The Institute for the Wireless Internet of Things, USA); Tommaso Melodia (Northeastern University, USA)

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AI/ML-Assisted Threat Detection and Mitigation in 6G Networks with Digital Twins: The HORSE Approach

Fabrizio Granelli (University of Trento, Italy); Malak Qaisi (CNIT, Italy); Panagiotis Kapsalis (Martel Innovate, Italy); Panagiotis Gkonis (National Technical University of Athens, Greece); Nikolaos Nomikos (National and Kapodistrian University of Athens, Greece); Iulislou Zacarias and Admela Jukan (Technische Universität Braunschweig, Germany); Panagiotis Trakadas (University of Athens, Greece)

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Room: Galery 1

Chair: Panagiotis Marantis (Industrial Systems Institute & Universitat Politècnica de Catalunya, Greece)

RAN Explainable Anomaly Prediction for 6G Networks

Panagiotis Marantis (Industrial Systems Institute & Universitat Politècnica de Catalunya, Greece); Kostas Ramantas (Iquadrat Informatica, Greece); Christos Verikoukis (University of Patras, Greece)
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Trusted access to 6G testbeds through a security intent-driven Software-Defined Perimeter framework

Carolina Fernández-Martínez (i2CAT Foundation, Spain); Anastasios N. Bikos (Iquadrat Informatica, Spain & Polytechnic University of Catalonia, Spain); Christos Verikoukis (University of Patras, Greece); Muhammad Shuaib Siddiqui (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain)
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Building a real-time physical layer labeled data logging facility for 6G research

Franco Minucci, Raquel Marina Noguera Oishi, Haoqiu Xiong, Dieter Verbruggen, Cel Thys, Rizqi Hersyandika and Robbert Beerten (KU Leuven, Belgium); Achiel Colpaert (IMEC, Belgium & KU Leuven, Belgium); Vida Ranjbar and Sofie Pollin (KU Leuven, Belgium)
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Anastasios N. Bikos (Iquadrat Informatica, Spain & Polytechnic University of Catalonia, Spain); Christos Verikoukis (University of Patras, Greece)
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Benoit Denis (CEA-Leti Minatec, France); Sylvie Mayrargue (CEA-LETI, France)

Sustainable AI for Zero touch network & Service Management with Graph Neural Networks

Maria Eleftheria Vlontzou (Intracom S.A. Telecom Solutions, Greece); Georgios Samaras (Intracom Telecom, Greece); Vasileios Theodorou (Intracom S.A. Telecom Solutions, Greece)
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Chair: Andreas Andreou (University of Nicosia, Cyprus)

Optimizing QoS in Wireless IoT Networks: A Cross-Layer based Experimental Study

Kamran Zia (University of Twente, The Netherlands); Alessandro Chiumento (University of Twente, The Netherlands & Katholieke Universiteit Leuven, Belgium); Paul Havinga (University of Twente, The Netherlands)
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A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services

Tu N. Nguyen, Thai T. Vu, Dillon Horton, Kun Suo, Ahyoung Lee, Jing (Selena) He and Yong Shi (Kennesaw State University, USA)
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David Okore Ukwem and Johan Garcia (Karlstad University, Sweden); Anna Brunstrom (Karlstad University, Sweden & University of Malaga, Spain); Mohammad Rajiullah (Karlstad University, Sweden)
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Davide Tazzioli, Andrea Sabbioni, Armir Bujari and Luca Foschini (University of Bologna, Italy)
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Optimizing Network Cybersecurity: AI-Powered NLP for Natural Language Command Interpretation

Michail Danousis (University of the Aegean, Greece & EIGHT BELLS LTD GREEK BRANCH, Greece); Konstantinos Kaltakis (8Bells, Greece); Alexandros Dimos (8Bells Ltd, Greece); Harry Skianis (University of the Aegean, Greece); Emmanouil Kafetzakis (Eight Bells Ltd., Cyprus); Ioannis Giannoulakis (Eight Bells Ltd, Cyprus)
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SDN-Driven Adaptive Routing Reconfiguration for IoT in Smart Spaces

Andreas Andreou (University of Nicosia, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Evangelos K. Markakis (Hellenic Mediterranean University, Greece); Athina Bourdena and George Mastorakis (Hellenic Mediterranean University, Greece)
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Tuesday, October 22

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Session 10: Agile and Cognitive Cloud-edge Continuum management

Room: Hydra

Chair: Abd Elghani Meliani (Eurecom, France)

MEC Resource Orchestration for Heterogeneous Networks and Services Using Reinforcement Learning

Shreya K. Chari and Luis A Garrido (Iquadrat Informatica S. L., Spain); John S Vardakas (Iquadrat Informatica, Spain); Kostas Ramantas (Iquadrat Informatica, Greece); Christos Verikoukis (University of Patras, Greece)
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Security and Trust Management in Cloud Edge Continuum: AC3 project approach

Sofiane Messaoudi (EURECOM, France); Abd Elghani Meliani (Eurecom, France); Ayoub Mokhtari (EURECOM, France); Adlen Ksentini (Eurecom, France)
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Mario Chamorro-Cazorla (Universidad Complutense de Madrid, Spain); Cristina Catalán-Torrecilla (Univesidad Complutense de Madrid, Spain); Ray Carroll, Ben Capper, Ryan Jenkins and Valeriia Shapoval (Red Hat, Ireland)

A Cloud-Native Approach for Orchestrating 6G-Enabled Services at the Computing Continuum

Ioannis Tzanettis (National Technical University of Athens & Institute of Communication and Computer Systems, Greece); Grigorios Kakkavas (National Technical University of Athens (NTUA) & Institute of Communication and Computer Systems (ICCS), Greece); Alexandros Stylos, Anastasios Zafeiropoulos and Symeon Papavassiliou (National Technical University of Athens, Greece)
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Data Management over Cloud Edge Continuum in the context of AC3

Dimitrios Amaxilatis (Spark Works Ltd., Ireland); Dimitrios Klonidis (UBITECH, Greece); Adlen Ksentini (Eurecom, France); Vrettos Moulos (University of Piraeus, Greece); Souvik Sengupta (IONOS SE, Germany); Nikolaos Tsironis (Spark Works Ltd, Ireland); Christos Verikoukis (University of Patras, Greece)
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Session 11: Federation of 6G Infrastructures & Experimentation Facilities in a "Network of Networks" - 2

Room: Galery 1

Chair: Vasileios Theodorou (Intracom S.A. Telecom Solutions, Greece)

Enhanced 5G/B5G Network Planning/Optimization deploying RIS in Urban/Outdoor Scenarios

Valdemar Farré (Escuela Politécnica Nacional, Ecuador); Juan Carlos Estrada-Jimenez (Luxembourg Institute of Science and Technology, Luxembourg); Jose David Vega Sanchez (Escuela Politécnica Nacional, Ecuador); Juan A. Vásquez Peralvo and Symeon Chatzinotas (University of Luxembourg, Luxembourg)
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Unified API Management as enabler for multiple-platform experimentation in 6G era...N/A

Anastasios-Stavros Charismiadiis (National and Kapodistrian University of Athens, Greece & Fogus Innovations & Services PC, Greece); Dimitris Tsolkas (Fogus Innovations and Services & National and Kapodistrian University of Athens, Greece); Nikos Passas (Fogus Innovations & Services, Greece)

Distributed Identity Model for the Trading of 5G Networks and Beyond

Breno da Costa Paulo and Emma O'Brien (Vicomtech, Spain); Angel Martin (Fundación Vicomtech, Basque Research and Technology Alliance (BRTA), Spain); Adriana Fernández-Fernández and Alfonso Egio (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain)
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Cognitive Continuum: Towards AI-native Federation of Compute and Network Infrastructures...N/A

Vasileios Theodorou (Intracom S.A. Telecom Solutions, Greece); Charalambos Papadakis (Intracom Telecom, Greece); Maria Eleftheria Vlontzou (Intracom S.A. Telecom Solutions, Greece)

Experimenting over a Federated 6G Network Infrastructure: Adaptive 360° Video Streaming

Christian Grasso, Andrea Caruso and Giovanni Schembra (University of Catania, Italy); Juan Brenes, Pietro Giardina and Giada Landi (Nextworks, Italy); Leonardo Lossi (NeXtworks, Italy); Gabriele Scivoletto (Nextworks, Italy)
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Tuesday, October 22 11:00 - 12:30

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Tuesday, October 22 12:30 - 14:00

Break

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Demo Session

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Prototyping a Generic Physical Layer Encryption Scheme for IoT Networks

Georgios Zachos (University of Greenwich, United Kingdom (Great Britain)); Jose Ribeiro (Portugal); Georgios Mantas (Instituto de Telecomunicações - Pólo de Aveiro, Portugal); Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)
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Lightweight Sandboxing for Cloud-native 6G Services and Applications...N/A

Anastassios Nanos, Charalampos Mainas and Christos Panagiotou (NUBIS PC, Greece)

A Simulator for FANETs Using 5G Vehicle-to-Everything Communications and Named-Data Networking

José Manuel Rúa-Estévez and Alicia Meleiro-Estévez (University of Vigo, Spain); Pablo Fondo-Ferreiro (Universidade de Vigo, Spain); Felipe Gil-Castiñeira (University of Vigo, Spain); Brais Sánchez-Rama and Lois Gomez-Gonzalez (CENTUM Research & Technology, Spain)
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NL-COMM: Demonstrating Gains of Non-Linear Processing in Open-RAN Ecosystem

Chathura Jayawardena, Marcin Filo, George Ntavazlis Katsaros and Konstantinos Nikitopoulos (University of Surrey, United Kingdom (Great Britain))
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Integrating a Zero Trust Adaptive Security Framework in Edge based Federated Learning

Paul M Shepherd (University of Aveiro, Portugal); Tasos Dagiuklas and Bugra Alkan (London South Bank University, United Kingdom (Great Britain)); Jonathan Rodriguez (Instituto de Telecomunicações, Portugal)
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Session 12: Advanced Physical Layer Techniques for 6G

Room: Hydra

Chair: Eleni G Stai (NTUA, Greece)

Optimal Power Control for Joint Wireless Information-Energy Transfers in Energy Harvesting Networks

Georgios Kallitsis (National Technical University of Athens, Greece); Vasileios Karyotis (Ionian University &

NETMODE Lab, NTUA, Greece); Eleni G Stai (NTUA, Greece); Symeon Papavassiliou (National Technical University of Athens, Greece)

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Channel Hardening in RIS-Assisted Short-Packet Communication Systems

Aritra Basu (INRS- EMT, Université du Québec, Canada); Mohsen Naseri (INRS, University of Quebec, Canada); Leila Musavian (University of Essex, United Kingdom (Great Britain)); Sonia Aissa (INRS, University of Quebec, Canada)

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Phase Shift Configuration for RIS-based 6G Networks using DRL Technique

Hemalatha Vulchi (Universidad Carlos III de Madrid, Spain & IT - Instituto de Telecomunicações, Aveiro, Portugal); Sherif Adeshina Busari (University of Bradford, United Kingdom (Great Britain)); Jonathan Rodriguez (Instituto de Telecomunicações, Portugal); Ana Garcia Armada (Universidad Carlos III de Madrid, Spain)

pp. 295-300

Jointly Optimizing RRC State Transition and DRX in 5G New Radio

Dionisios Damasiotis (Athens University of Economics and Business & OTE Group of Companies, Greece); Vasilios A. Siris (Athens University of Economics and Business, Greece)

pp. 301-306

Over-the-Air Computation in Cell-Free Massive MIMO Systems

Chen Chen and Emil Björnson (KTH Royal Institute of Technology, Sweden); Carlo Fischione (KTH, Sweden)

pp. 307-312

Session 13: Protocols, Architectures, and Applications for IoT and VR systems

Room: Galery 1

On the Integration of IoT and Cloud Computing for Ultra-Reliable Spectrum Allocation in e-health

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); Athina Bourdena and George Mastorakis (Hellenic Mediterranean University, Greece)

pp. 313-318

Mobile Gateways for LoRa End-Devices: Support Connectivity on the Move

Vasileios Moysiadis (University of Western Macedonia, Greece); Dimitrios N Skoutas and Harry Skianis (University of the Aegean, Greece); Thomas Lagkas (Democritus University of Thrace, Greece); Vasileios Argyriou (Kingston University, United Kingdom (Great Britain)); Panagiotis Sarigiannidis (University of Western Macedonia, Greece)

pp. 319-324

Timely Processing and Offloading of Short Term Tasks in the Internet of Things

Umut Guloglu (Middle East Technical University, Turkey); Leonardo Badia (Università degli Studi di Padova, Italy); Andrea Munari (German Aerospace Center (DLR), Germany)

pp. 325-330

PDPPnet: Prioritized Delay-aware and Peer-to-Peer Task Offloading in Cloud-Edge Continuum with DDDQN

Anastasios E. Giannopoulos (National and Kapodistrian University of Athens, Greece & Four Dot Infinity (FDI), Greece); Ilias Paralikas (Four Dot Infinity, Greece); Sotirios Spantideas (National and Kapodistrian University of Athens & National Technical University of Athens, Greece); Nikolaos Nomikos (National and Kapodistrian

University of Athens, Greece); Panagiotis Trakadas (University of Athens, Greece)

pp. 331-338

A Generalized Multi-Layer IDS for Smart Buildings

Marco Ruta, Pietro Giardina and Giada Landi (Nextworks, Italy); Rosario G. Garroppo (University of Pisa, Italy)

pp. 339-344

Performance evaluation of MLO for XR streaming: Can Wi-Fi 7 meet the expectations?

Marc Carrascosa-Zamacois (Universitat Pompeu Fabra, Spain & Nokia Bell Labs, Germany); Lorenzo Galati Giordano (Nokia Bell Labs, Germany); Francesc Wilhelmi (Nokia, Germany); Gianluca Fontanesi (Nokia Bell Labs, Germany); Anders Jonsson (Pompeu Fabra University, Spain); Giovanni Geraci (Telefonica Research & Universitat Pompeu Fabra, Spain); Boris Bellalta (Universitat Pompeu Fabra, Spain)

pp. 345-350

Tuesday, October 22 15:30 - 16:00

Break & Demo Session

Tuesday, October 22 16:00 - 17:45

Session 14: Distributed Artificial Intelligence-Driven Open & Programmable Architecture for 6G Networks - 2

Room: Hydra

Chair: Golshan Famitafreshi (Universitat Oberta de Catalunya, Spain)

Cloud-Based LLMs for Enhancing BDIX Agents' Decision-Making in Network Control Emergencies

Iacovos Ioannou (University of Cyprus, Cyprus & CYENS Centre of Excellence, Cyprus); Christophoros Christophorou (CYENS Centre of Excellence, Cyprus & UCLan Cyprus, Cyprus); Nagaradjane Prabagarane (Sri Sivasubramaniya Nadar College of Engineering, India); Vasos Vassiliou (University of Cyprus & CYENS Center of Excellence, Cyprus)

pp. 351-358

DiMViDA: Diffusion-based Multi-View Data Augmentation

Giuseppe Di Giacomo (Politecnico di Torino, Italy); Giulio Franzese (Eurecom, France); Tania Cerquitelli (Politecnico di Torino, Italy); Carla Fabiana Chiasserini (Politecnico di Torino & CNIT, IEIT-CNR, Italy); Pietro Michiardi (EURECOM, France)

pp. 359-364

An Innovative Multi-scale Strategy-based Decision Engine for Zero-touch Management and Orchestration

Golshan Famitafreshi (Iquadrat, Spain); Maria Trigka (Industrial Systems Institute, Greece); Dimitrios Selis (Universitat Politècnica de Catalunya & Athena Research & Innovation Center - ISI, Spain); John S Vardakas (Iquadrat Informatica, Spain); Christos Verikoukis (University of Patras, Greece)

pp. 365-370

AI-Driven Zero-Touch Slice Optimization for 6G Networks

Erin E Seder and Giacomo Bernini (Nextworks, Italy); Marius Iordache (Orange, Romania); Razvan Mihai (University Politehnica of Bucharest & Orange Romania, Romania); Juan Brenes (Nextworks, Italy); Cristian Patachia - Sultanoiu (Orange Romania SA & Technical University Gheorghe Asachi of Iasi, Romania); Catalin Brezeanu (Orange Romania, Romania); Marco Ruta and Giada Landi (Nextworks, Italy)

pp. 371-376

Intelligent Computational Offloading Using Lyapunov Optimization and Deep Reinforcement Learning

Gussan Mufti (eBOS Technologies Ltd, Cyprus); Eleni Keliri (EBOS, Cyprus); Marios Sophocleous (eBOS Technologies Ltd, Cyprus); Charalambos Klitis (EBOS Technologies Ltd, Cyprus); Loizos Christofi (eBOS Technologies, Cyprus)
pp. 377-382

Energy Saving in 6G O-RAN Using DQN-based xApp

Qiao Wang (Samsung R&D Institute UK, United Kingdom (Great Britain)); Swarna Bindu Chetty (University of York, United Kingdom (Great Britain)); Ahmed Al-Tahmeesschi (University of York, United Kingdom (Great Britain) & UoY, United Kingdom (Great Britain)); Xuanyu Liang, Yi Chu and Hamed Ahmadi (University of York, United Kingdom (Great Britain))
pp. 383-388

Session 15: Security, Reliability, and Efficiency in next-generation networks

Chair: Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus)

From Concept to Reality: QoS-Based RAN Slicing in Next Generation O-RAN Networks

Amjed H. Mohammed (University of Glasgow, United Kingdom (Great Britain)); Syed Tariq Tariq Shah (University of Essex, United Kingdom (Great Britain) & University of Glasgow, United Kingdom (Great Britain)); Yusuf A. Sambo (University of Glasgow & School of Engineering, United Kingdom (Great Britain)); Muhammad Ali Imran (University of Glasgow, United Kingdom (Great Britain))
pp. 389-395

Navigating Privacy Challenges in Mission Critical Communication: Insights for 6G Networks

Prajnamaya Dass (Barkhausen Institute, Germany); Marcel Graefenstein (Technische Universität Dresden, Germany); Stefan Köpsell (TU Dresden, Germany)
pp. 396-402

Enhancing UAV Path Planning Efficiency Through Accelerated Learning

Joseanne Cristina Ocroch Viana (University Carlos III Madrid, Spain); Lester Ho and Boris Galkin (Tyndall National Institute, Ireland); Holger Claussen (Tyndall National Institute & University College Cork, Trinity College Dublin, Ireland)
pp. 403-408

Power Allocation and Beam Illumination Design for Time-Flexible Satellite Systems

Lin Chen (University of Luxembourg, Luxembourg); Anyue Wang (Luxembourg); Eva Lagunas (University of Luxembourg, Luxembourg); Lei Lei (Xi'an Jiaotong University, China); Symeon Chatzinotas (University of Luxembourg, Luxembourg)
pp. 409-414

Model Poisoning Detection and Dismissal Safeguarding Federated Learning Against Malicious Attacks

Stefano Giordano and Md Auhidur Rahman (University of Pisa, Italy); Akash Chandra Debnath (Noakhali Science and Technology University, Bangladesh)
pp. 415-421

Multiple Redundant Weighted Clustered Scheme with Dynamic Weights Adjustment for Damaged S-UAV

Grace Khayat (University of Nicosia & Mobile Systems Laboratory, Cyprus); Constandinos X. Mavromoustakis (University of Nicosia & University of Nicosia Research Foundation, Cyprus); Jordi Mongay Batalla (Warsaw University of Technology, Poland); Andreas Pitsillides (University of Cyprus (Retired), Cyprus & University of

Wednesday, October 23

Wednesday, October 23 9:00 - 10:30

Session 16: Empowering 6G Networks: First Workshop on Advancements in Research Infrastructures, Adaptive Frameworks and Global Architectural Evolution (Athena 2024) - 1

Room: Hydra

Chair: Harilaos Koumaras (NCSR Demokritos, Greece)

Performance comparison of NWDAF-based security analytics techniques in 5G/B5G networks

Apostolis Garos, Nikos Alabasis, Victoria Katsarou and Georgios Gardikis (Space Hellas S.A., Greece); Dimitris Santorinaios and Maria Christopoulou (NCSR Demokritos, Greece)
pp. 428-431

UniNetProbe: A Comprehensive 5G Research Testbed Framework

Panagiotis Papaioannou, Georgios Christos Tziavas, Dimitris Giannopoulos, Christos Tranoris and Spyros Denazis (University of Patras, Greece)
pp. 432-437

6G-EWOC: AI-Enhanced Fibre-Wireless Optical 6G Network in Support of Connected Mobility

Eleni Theodoropoulou, George Lyberopoulos and Foteini Setaki (Hellenic Telecommunications Organization, Greece); Carina Marcus (Magna Electronics, Spain); Olof Eriksson (Veoneer, Sweden); Bernhard Schrenk (AIT Austrian Institute of Technology, Austria); Pablo García (Beamagine, Spain); Santiago Royo (UPC, Spain); Josep M Fabrega (Centre Tecnologic de Telecomunicacions de Catalunya, Spain); Ricardo Martinez and Ramon Casellas (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC/CERCA), Spain); Josep R. Casas and José A Lázaro (UPC Universitat Politècnica de Catalunya, Spain)
pp. 438-443

Multi-Connectivity Enhancements for the 6G era

Dimitrios Dimopoulos (Lenovo Research, Greece); Apostolis K. Salkintzis (Lenovo Research)
pp. 444-451

Markov Chain-based Model of Blockchain Radio Access Networks

Vasileios Kouvakis and Stylianos E. Trevlakis (InnoCube, Greece); Alexandros-Apostolos A Boulogeorgos (University of Western Macedonia, Greece); Hongwu Liu (Shandong Jiaotong University, China); Theodoros A. Tsiftsis (University of Thessaly, Greece); Octavia A. Dobre (Memorial University, Canada)
pp. 452-457

Towards 6G for Connected Autonomous Vehicles: A Trial Facility Analysis

Shih-Kai Chou (JSI, Slovenia); Jernej Hribar (Jozef Stefan Institute, Slovenia); Ivana Dusparic (Trinity College Dublin, Ireland); Carolina Fortuna (Jozef Stefan Institute, Slovenia)
pp. 458-463

Session 17: Agile and Cognitive Cloud-edge Continuum management - 2

Room: Galery 1

Chair: Amadou Ba (IBM Research Europe, Ireland)

Enhancing Wildlife Monitoring in Variable Network Coverage Areas with Deep RL-based SD-WANs

Luca Borgianni, Cristian Bua, Setayesh Ghadir and Delaram Ghadir (University of Pisa, Italy); Davide Adami (CNIT Pisa Research Unit, University of Pisa, Italy); Stefano Giordano (University of Pisa, Italy)
pp. 464-469

A Mobility-aware Reinforcement Learning Proactive Solution for State Data Migration in Edge Computing

Elias Dritsas (Industrial Systems Institute, Greece); Christos Verikoukis (University of Patras, Greece); Kostas Ramantas (Iquadrat Informatica, Greece)
pp. 470-475

Bridging Cognitive Computing with Multi-Cloud Integration

Souvik Sengupta (IONOS SE, Germany); Sara Madariaga (Arsys Internet SLU, Spain); John Beredimas (NetScaler, Greece); Ali Nikoukar (IONOS SE, Germany); Maria Barros Weiss (Eurescom GmbH, Germany); Asimakis Lykourgiotis (NetScaler & University of Patras, Greece); Athanasios Kordelas (NetScaler, Greece)
pp. 476-482

Kubernetes Network Programmability in the AC3 EU Horizon Research Project...N/A

Ben Capper, Ray Carroll, Ryan Jenkins and Valeriia Shapoval (Red Hat, Ireland)

Edge Computing Resource Allocation based on Trust and Multilateral Bargaining

Sean Tsikteris, Md Sadman Siraj and Aisha B Rahman (Arizona State University, USA); Panagiotis Charatsaris (National Technical University of Athens, Greece); Eirini Eleni Tsiropoulou (Arizona State University, USA); Symeon Papavassiliou (National Technical University of Athens, Greece)
pp. 483-488

Explainable Prediction of End-to-End Latency of Microservices-based Applications...N/A

Amadou Ba (IBM Research Europe, Ireland)

Wednesday, October 23 10:30 - 11:00

Break

Wednesday, October 23 11:00 - 12:30

Session 18: Empowering 6G Networks: First Workshop on Advancements in Research Infrastructures, Adaptive Frameworks and Global Architectural Evolution (Athena 2024) - 2

Room: Hydra

Chair: Panagiotis Karkazis (University of West Attica, Greece)

Roadmap to Secure 6G Networks

Vaios Bolgouras (University of Piraeus, Greece); Aristeidis Farao (InQbit Innovations SRL, Romania); Christos Xenakis (University of Piraeus, Greece)
pp. 489-494

An Empirical Approach for MNOs to Achieve Unhindered 5G 3.5GHz TDD Operation at the Cross Borders

Foteini Setaki (Hellenic Telecommunications Organization, Greece); George Karouzou (OTE, Greece); Evgenia Petkova-Rasheva (A1BG, Bulgaria); Eleni Theodoropoulou and George Lyberopoulos (Hellenic Telecommunications Organization, Greece); Konstantinos Theodoropoulos (Fasmetrics S.A., Greece); Nikos Kostopoulos (Ericsson Hellas SA, Greece); Konstantinos Trichias (6G Smart Networks & Services Industry Association (6G SNS IA), Greece & National Technical University of Athens (NTUA), Greece); Ioanna Mesogiti (Hellenic Telecommunications Organization, Greece)

pp. 495-500

Towards Enabling 5G-NTN Satellite Communications for Manned and Unmanned Rotary Wing Aircraft

Vasileios Leon, Ilias Christofilos, Athanasios Nesiadis and Iosif Paraskevas (Intracom Defense S.A., Greece); Juan Perrela (Alpha Unmanned Systems, Spain); Georgios Ioannopoulos, Alexandros Tasoulis-Nonikas and Mathieu Bernou (OHB Hellas, Greece); Jacques Reading (European Space Agency, The Netherlands)

pp. 501-506

An AI-assisted User-Intent 6G System for Dynamic Throughput Provision

Ilias Alexandropoulos (National Centre of Scientific Research Demokritos, Greece); Vasiliki Rentoula (National Centre for Scientific Research Demokritos, Greece); Dimitrios Fragkos (Institute of Communication and Computer Systems (ICCS), Greece & University of Peloponnese, Greece); Nikolaos Gkatzios (INFOLYSIS P. C., Greece); Harilaos Koumaras (NCSR Demokritos, Greece)

pp. 507-512

Design of a 6G Testbed towards Cyber-Physical Convergence in Remote Driving Applications

Fernando Hernandez-Gobertti (Universitat Politècnica de València, Spain); Raul Lozano (Universitat Politècnica de Valencia, Spain); Nuria Molner (Universitat Politècnica de València & iTEAM Research Institute, Spain); David Gomez-Barquero (Universitat Politècnica de Valencia, Spain)

pp. 513-520

Enhancing Reliability in 6G Networks Based on User-Driven AI

Christos Betzelos, Dimitrios Uzunidis, Eleni Aikaterini Leligkoy and Panagiotis Karkazis (University of West Attica, Greece)

pp. 521-526

Session 19: Addressing 6G Cybersecurity and Privacy Challenges - 1

Room: Galery 1

"Should we sacrifice privacy for security?"...N/A

Maria Christopoulou (NCSR Demokritos, Greece)

Using Network Digital Twins to detect, study and mitigate network attacks...N/A

Antonio Pastor (Telefonica Innovación Digital, Spain); Jose Manuel Manjón (Telefónica Innovación Digital, Spain); Diego Lopez (Telefonica I+D, Spain)

RIGOUROUS: AI-driven Automated Security Orchestration, Trust Management, and deployment...N/A

Antonio Fernando Skarmeta Gomez, Jorge Bernal Bernabe and Pablo Fernández Saura (University of Murcia, Spain); Jose Antonio Parra (Universidad de Murcia, Spain); Diego Sanchez (University of Murcia, Spain)

ePEM: an End-to-End Proactive Secure Connectivity Manager for 6G Orchestrator Solutions

Alessandro Carrega (UNIGE, Italy & CNIT, Italy); Ramin Rabbani (University of Genoa, Italy)

pp. 527-533

Wednesday, October 23 12:30 - 14:00

Break

Wednesday, October 23 14:00 - 15:30

Session 20: Empowering 6G Networks: First Workshop on Advancements in Research Infrastructures, Adaptive Frameworks and Global Architectural Evolution (Athena 2024) - 3

Room: Hydra

Chair: Anna Tzanakaki (National and Kapodistrian University of Athens, Greece)

Design of a Semantic-Aware New Radio PUSCH Encoder for enhanced mobility

Ilias Floudas, Markos Anastasopoulos and Anna Tzanakaki (National and Kapodistrian University of Athens, Greece); Jesús Gutiérrez (IHP - Leibniz-Institut für Innovative Mikroelektronik, Germany)
pp. 534-539

Field Trial Validation of 5G-Connected UAVs towards QoS and Handover Analysis

George Makropoulos (NCSR Demokritos & National and Kapodistrian University of Athens, Greece); Ioannis Manolopoulos and Harilaos Koumaras (NCSR Demokritos, Greece); George Lyberopoulos, Foteini Setaki, Eleni Theodoropoulou and Ioanna Mesogiti (Hellenic Telecommunications Organization, Greece)
pp. 540-545

5G Trusted and Secure Network Deployments and Services: The 5G-TACTIC Approach

Markos Anastasopoulos (National and Kapodistrian University of Athens, Greece); Alexandros Manolopoulos (National Kapodistrian University of Athens, Greece); Anna Tzanakaki (National and Kapodistrian University of Athens, Greece); Ioanna Mesogiti, Eleni Theodoropoulou and George Lyberopoulos (Hellenic Telecommunications Organization, Greece); Charalambos Oxinos (Digital Security Authority of Cyprus, Greece); Cristian Patachia - Sultanoiu (Orange Romania SA & Technical University Gheorghe Asachi of Iasi, Romania); Razvan Mihai (University Politehnica of Bucharest & Orange Romania, Romania); Aggeliki Pragiati and Antonis Panagakis (Hellenic Telecommunications and Post Commission, Greece)
pp. 546-551

Demonstration of Multi-Access 6G Networks with User Mobility Considerations

Alexandros Manolopoulos (National Kapodistrian University of Athens, Greece); Viktoria-Maria Alevizaki, Markos Anastasopoulos and Anna Tzanakaki (National and Kapodistrian University of Athens, Greece)
pp. 552-558

An Innovative Architectural Blueprint Towards Sustainable 6G Systems

Stylianos E. Trevlakis (InnoCube, Greece); Maria Belesioti (Hellenic Telecommunications Organization S.A. (OTE), Greece); Harilaos Koumaras (NCSR Demokritos, Greece); Alexandros Apostolos A. Boulogeorgos (University of Western Macedonia, Greece); Ioannis Chochliouros (Hellenic Telecommunications Organization S.A. (OTE), Greece); Theodoros A. Tsiftsis (University of Thessaly, Greece)
pp. 559-566

Deception mechanisms for cyber-security enhancement in the Internet of Things

Ignacio Lacalle and Salvador Cuñat (Universitat Politècnica de València, Spain); Aristeidis Farao and Christos Xenakis (University of Piraeus, Greece); Dionysios Xenakis (National and Kapodistrian University of Athens, Greece & Fogus Innovations and Services PC, Greece); Carlos E Palau (Universitat Politecnica Valencia, Spain)
pp. 567-573

Session 21: Panel with Interactive Discussion of 6 Panelists

Selected panelists from SNS JU Stream B 01 04 projects

Diego (Telefonica), Harilaos Koumaras (Demokritos), Antonio Skarmeta (UMU), Shuaib Siddiqui (i2CAT), Giorgios Gardikis (SpaceHellas), Orazio Toscano (Ericsson).

Room: Galery 1

Wednesday, October 23 15:30 - 16:00

Break

Wednesday, October 23 16:00 - 17:45

Session 22: Addressing 6G Cybersecurity and Privacy Challenges - 3

Room: Galery 1

Security, Privacy and System-Level Resillience of 6G End-to-End System: Hexa-X-II Perspective...N/A

Pawani Porambage (VTT Technical Research Centre of Finland, Finland)

Security, Privacy and System-Level Resillience of 6G End-to-End System: Hexa-X-II Perspective: PLS...N/A

Bin Han (RPTU Kaiserslautern-Landau, Germany)

Security, Privacy and System-Level Resillience of 6G End-to-End System: Quantum Safe Cryptography...N/A

Antonio Pastor (Telefonica Innovación Digital, Spain); Diego Lopez (Telefonica I+D, Spain); Pawani Porambage (VTT Technical Research Centre of Finland, Finland); Bin Han (RPTU Kaiserslautern-Landau, Germany)

AI Enabled Threat Intelligence for Zero-Trust based Security in 6G networks: iTrust6G Approach...N/A

Muhammad Shuaib Siddiqui (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Maxime Compastie (i2CAT Foundation, Spain); Mir Ghoraishi (Gigasys Solutions, United Kingdom (Great Britain)); Christos Ntanos and Michael Kontoulis (National Technical University of Athens, Greece); Diego Lopez (Telefonica I+D, Spain); Antonio Lioy (Politecnico di Torino, Italy); Evangelos K. Markakis (Hellenic Mediteranean University, Greece); Sheeba Backia Mary Baskaran (Lenovo, Germany)

SAFE-6G: An AI-Assisted User-centric Trustworthy Network...N/A

Harilaos Koumaras (NCSR Demokritos, Greece)

Roadmap for quantum-safe 6G infrastructure...N/A

Diego Lopez (Telefonica I+D, Spain); Antonio Pastor (Telefonica Innovación Digital, Spain); Jose Manuel Manjón (Telefónica Innovación Digital, Spain)