10th international workshop on Fiber Optics in Access Network Valencia, October 11 and 12, 2022 www.foan.info



Hotel Barcelo Valencia

Day 1: October 11, 2022

9:30 - 10:00: Coffee and registration

ICUMT and FOAN participants

SESSION 1.1. Plenary session / The main room

Note: All presentations will be performed in physical form

10:00 - 10:15: Greetings from sponsors and organizers,

10:15 - 11:00 Invited talk

IoT-edge-cloud continuum a Tactile Internet approach

Carlos Palau Universitat Politécnica de Valenci, Spain

11:00 - 11:45 Invited talk

"Multidimensional optical multiplexing for secure access optical networks" Prof. Gabriella Cincotti, University of Rome, Italy

O&A: 15 minutes for both talk

12:00 - 13:00 Lunch break

SESSION D1.2: Photonics in telecom networks

FOAN Room

13:00 - 13:30 Invited talk

"Challenges of Terrestrial to Satellite Communications: Optical & Timing Consideration"
Tracey Vanik, Head of Photonics Market Research at EPIC, US;

NOTE: Only one online talk at FOAN2022

13:30 14:00 Invited talk

"Programmable photonics hardware for low power consumption networks", Ana Gonzales, Director of Strategic Partnerships, iPRONICS, Spain;

13:30 - 14:10 Panel Discussion

"Photonic Integrated Circuits in Passive Optical Networks"

Panelists: Claudio Porzi, Scuola Superiore Sant'Anna, Italy

Daniel Perez Lopez, CTO and cofounder of iPRONICS, Spain

Bostjan Batagalj, University of Ljubljana,

Moderated by Adrian Torregrosa, Universidad Miguel Hernandez, Spain







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15:00- 15:30 Coffee

FOAN participants

SESSION D1.3: Research issue

Note: All presentation will be in phisical form expect the last (Taiwan strong Covid restriction)

15:30 - 15:50 Regular paper

"Frequency and Bandwidth Tunable Integrated Microwave Photonic Bandpass Filter" Claudio Porzi, Scuola Superiore Sant'Anna, Italy

15:50 - 16:05 Regular paper

"Coexistence Studies for DV-QKD Integration in Deployed RAN Infrastructure" Argiris Ntanos, National Technical University of Athens, Greece

16:05 - 16:20 Regular paper

"Performance Analysis of Mode Division Multiplexing (MDM) Based Hybrid PON FSO System Under Fog Weather Conditions"

Rajan Miglani, Lovely Professional University, India, India

16:20 - 16:40 Regular paper

"Stabilization concept for maintaining maximum suppression of the undesired sideband in radio-over-fiber link using a single add/drop micro-ring resonator"

Kristjan Vuk Baliz, University of Ljubljana, Slovenia

16:40 - 17:00 Regular paper

"Hybrid PONs with RU Interconnection for Future Mobile Networks"
Lung-Wei Chung, National Taiwan University of Science and Technology, Taiwan

20:00 - Welcome reception

Rooms: The location will be determined later







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Day 2: 11. October 2022

09:00 - 9:30 Coffee - Registration FOAN participants

9:30 - SESSION D2.1: TELECOM

Note: All presentations will be performed in physical form

09:30 - 10:30 Operator talk

"GPON / XGS-PON / NG-PON2 Evolution With a Comparison of Wi-Fi 6 Mesh Versus Wi-Fi 5 Mesh in a Residential Building - Experience in T-2"

Gorazd Penko, Head of Reference Laboratory for development P2P/FTTH, xDSL, P2MP/FTTH, xDSL and CPE IAD, T-2 doo Slovenia

10:00 -10:20 Invited talk

"Challenges in Building Broadband Fiber Optic Infrastructure in Rural Areas"

Duško Žutić, Program Leader, Roaming Networks, Croatia;

10:20 - 10:45 Invited talk

"Software-Defined Passive Optical Network With Modular Optical Line Terminal", dr. Jaqup Ratkocery, Director, FTTx Networks at Technetix&UBT, Holland and Kosovo

SESSION D2.2: Regulation challenges in Access and IoT Networks

Note: All presentations will be performed in physical form,

10:45 - 11:10 Regular paper

"Convergence of optical and radio access network"

Vesna Prodnik, CEO, Vafer Ltd. Slovenia

11:10 - 11:35 Invited talk

"Municipalities - new owners of Fiber Optic Networks in Europe"

Cornel Barbut, Dare for Digital Infrastructure, Romania,

11:35 - 12:00 Invited talk

"Data Generated by IoT: What Does the Regulation Say?"

Cristina Contero Almagro, Partner en @ Aphaia, Spain

12:00 - 13:00 Lunch break

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SESSION D2.3: SENSORS

Note: All presentations will be performed in physical form

13:00 - 13:30 Invited talk

"Ultrasensitive nanoplasmonic biosensor based on precisely controlled phase singularity" dr. Shuwen Zeng, French National Centre for Scientific Research (CNRS), France;

13:30 - 14:00 Regular paper

"An Energy Harvesting Technology for MPU-based IoT Device"

Hideaki Kimura, Chubu University, Japan (retired Head of Access lab, NTT)

14:00 - 14:45 Tutorial

"Diverse Optical Fiber Structures for Sensor Applications" prof. Gerd Keiser, Boston University & PhotonicsComm Solutions,

14:45 - 15:00 Regular paper

"Two parameters detecting by using one Silicon core based fiber Bragg Grating" Prof. Yi-Lin Yu, Feng-Chia University, Taiwan

15:00 - 15:15 Presentation only

"Thin-Film PV Cells in Powering Over Singlemode Fiber"

Edvin Skaljo, BH Telecom&University of Sarajevo, Bosnia and Herzegovina

15:15 - COFFEE & FOAN2022 CLOSING SESSION

LOOKING forward to seeing you at FOAN2023

20:00 GALA DINNER

ICUMT and FOAN participants





