SDPNGS 2023 Workshop June 5th, Rodos Palace Luxury Convention Resort, Rhodes (Greece) Salon Des Roses B	
Time (Local, Rhodes (Greece)	
14.00 – 14.10	Welcome and Introduction to the panel (Miguel Ángel Vázquez)
14.10 – 14.40	Data-Enhanced Satellite Communication Systems: the industry perspective. Panelists: • Gabriele Infantolino (Telecommunications Satellite Payload System Engineer at OHB) • Gabriele Giordana (Mission Autonomy Engineer at AIKO) • Leticia Alonso (Ground Segment Telecom Engineer at GMV Aerospace and Defence) • Moderator: Miguel Ángel Vázquez (Senior Researcher at CTTC).
14.40 – 15.30	Paper session Oral '**Space Systems**' (Chair: Miguel Ángel Vázquez).
14.40 – 14.50	**SITE DIVERSITY SWITCHING PREDICTION AT Q BAND USING DEEP LEARNING TECHNIQUES IN SATELLITE COMMUNICATIONS**; Maria Kaselimi (National Technical University of Athens), Anargyros Roumeliotis (National Technical University of Athens), Apostolos Papafragkakis (National Technical University of Athens), Athanasios Panagopoulos (National Technical University of Athens), Nikolaos Doulamis (National Technical University of Athens).
14.50 – 15.00	**CNN-BASED ON-BOARD INTERFERENCE DETECTION IN SATELLITE SYSTEMS: AN ANALYSIS OF DATASET IMPACT ON PERFORMANCE**; Saed Daoud (University of Luxembourg); Geoffrey Eappen (University of Luxembourg); Flor Ortiz (University of Luxemburg); Eva Lagunas (SnT, University of Luxembourg); Wallace A. Martins (University of Luxembourg); Symeon Chatzinotas (University of Luxembourg).
15.00 – 15.10	**ON HYBRID FREE-SPACE OPTIC-RADIO SYSTEMS AS ENABLERS OF 6G SERVICES OVER NON-TERRESTRIAL NETWORKS**; Marc Jovan Amay (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC)); Joan Bas (CTTC).
15.10 – 15.20	**MULTI-APERTURE GROUND RECEIVER TO ENHANCE ADAPTIVE OPTICS CORRECTED GEO-FEEDER UPLINKS**; Perrine Lognoné (ONERA), Jean-Marc Conan (ONERA), Ghaya Rekaya (Télécom Paris), Laurie Paillier (ONERA), Nicolas Védrenne (ONERA).
15.20 – 15.30	**IMPROVED GRAPH-BASED USER SCHEDULING FOR SUM-RATE MAXIMIZATION IN LEO-NTN SYSTEMS**; Bilal Ahmad (University of Bologna), Daniel Gaetano Riviello (University of Bologna) , Alessandro Guidotti (CNIT), Alessandro Vanelli-Coralli (University of Bologna).
15.30- 16.00	**Coffee Break**
16.00 – 17.10	Paper session Oral '**NTN Air-Interface**' (Chair: Màrius Caus)
16.00 – 16.10	**NOMA MIMO DOWNLINK IN LEO SATELLITES**; Rei Richter (Bar Ilan University), Itsik Bergel (Bar Ilan University), Yair Noam (Bar Ilan University), Zehavi Ephraim (Bar Ilan University).
16.10 – 16.20	**COOPERATIVE DUAL LEO SATELLITE TRANSMISSION IN MULTI-USER OTFS SYSTEMS**; Marius Caus (CTTC), Musbah Shaat (CTTC), Ana I. Pérez-Neira (CTTC), Malte Schellmann (Huawei), Hanwen Cao (Huawei).

16.20 – 16.30	**TIME VARIANT DOPPLER COMPENSATION FOR TS-UNB**; Samhita Roy (Fraunhofer IIS), Uyen Ly Dang (Fraunhofer IIS), Jakob Kneissl (Fraunhofer IIS), Gerd Killian (Fraunhofer IIS), Raimund Meyer (ComResearch Gmbh), Frank Obernosterer (ComResearch Gmbh).
16.30 – 16.40	**LEARNING MODEL-FREE ROBUST PRECODING FOR COOPERATIVE MULTIBEAM SATELLITE COMMUNICATIONS**; Steffen Gracla (Universität Bremen), Alea Schröder (Universität Bremen), Maik Röper (University of Bremen), Carsten Bockelmann (Universität Bremen), Dirk Wübben (University of Bremen), Armin Dekorsy (University of Bremen).
16.40 – 16.50	**ON THE COMPLEXITY OF NON-COHERENT ACQUISITION OF CHIRP SPREAD SPECTRUM SIGNALS**; Daniel Egea-Roca (Universitat Autònoma de Barcelona); José A. López-Salcedo (Universitat Autònoma de Barcelona (UAB)); Gonzalo Seco-Granados (Universitat Autònoma de Barcelona).
16.50 – 17.00	**FREQUENCY ASYNCHRONOUS NOMA IN LEO SATELLITE COMMUNICATION SYSTEMS**; Joohyun Son (Yonsei university); Jehyun Heo (Yonsei university); Hyunwoo Lee (Yonsei university); Seungwoo Sung (Yonsei university); Minchul Hong (Yonsei University); Hanwoong Kim (Yonsei university); Gayeon Ahn (Yonsei university); Daesik Hong (Yonsei university).
17.00 – 17.10	**ROBUST REFLECTIVE BEAMFORMING FOR NON-TERRESTRIAL NETWORKS UNDER THERMAL DEFORMATIONS**; Damir Rakhimov (TU-Ilmenau), Bile Peng (TU Braunschweig), Eduard Jorswieck (TU Braunschweig), Martin Haardt (Ilmenau University of Technology).
17.10 – 17.40	**KEYNOTE CLOSURE**: **AI-based software tools for designing and operating Ka-band and Q/V-band satellite networks,** Charilaos Kourogiorgas Technical Director at Atheras Analytics.