

Date	Wednesday		
	Topazio Room	Diamante Room	Rubi Room
UTC-3 (Brazil Standard Time)			
7:00-9:00 a.m.	-	Virtual Session 1: LLM Security and Multi-Agent Autonomous Systems and Drones	Virtual Session 2: RAG & Knowledge Engineering & Video coding
8:50-9:10 a.m.	Registration/Coffee Reception		
9:10-10:10 a.m.	Opening Ceremony and Plenary Session 1	-	-
10:10-10:30 a.m.	Coffee Break Rooms Conferência 1, 2 and Auditório 1		
10:30 a.m.-12:10 p.m.	Session 1: ATSC 3.0 B2X	Session 2: Video Analysis and AI/LLM Applications	Session 3: Point Cloud/3D Systems and QoS
12:10-2:00 p.m.	Lunch Le Monde Restaurant		
2:00-3:40 p.m.	Session 4: BPS, Antenna Array and Heterogeneous SFN	Session 5: XR Systems and Networks	Session 6: Intelligent Communication Systems and Data-Driven Signal Processing
3:40-4:00 p.m.	Coffee Break Rooms Conferência 1, 2 and Auditório 1		
4:00-5:10 p.m.	Session 7: ISDB-T3/S3, 3GPP PTM, and Multicast/Broadcast	Session 8: Streaming and VLC	Session 9: NN/DRL Applications and Microphone Array
7:00-11:00 p.m.	Welcome Reception Nui 360 - Rooftop (outside the conference hotel)		

Diamante Room		
July 8, 2026		
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7:00-9:00 a.m.		
UTC-3 (Brazil Standard Time)		
Virtual Session 1: LLM Security and Multi-Agent Autonomous Systems and Drones		
Chair: Gustavo de Melo Valeira		
Paper ID	Title	Authors
25	Real-Time Deepfake Detection in Live Streams via Interpretable TCN and Quality-Aware Gating	Zui Tao, Liting Zhou, Tianlong Yu, Ting Bi and Gabriel-Miro Muntean
22	DQA-Flow : A Comprehensive Data Quality Assessment Framework and Quantitative Methodology for Large Language Models	Xiaoqing Xia and Xinchu Li
113	Bridging the Gap: A Survey on LLM-Driven High-Performance Kernel Generation and Optimization	Minxin Guo and Yishan Tian
141	Characteristics and Challenges for Tokenized Mobile AI Traffic in 6G	Jincan Xin, Yang Li, Sen Xu, Hua Xu, Pu Song and Xianda Liu
149	Agentic Artificial Intelligence for 6G Networks: Models, Architectures, Use Cases, and Standardization Perspectives	Yu Fu, Sen Xu and Xin Li
65	GCN-Enhanced Heterogeneous Multi-Agent Reinforcement Learning for Multi-UAV Cooperative Task Offloading in Mobile Edge Computing	Yang Yang
57	MapVO: A Loosely Coupled System for GNSS-Denied UAV Navigation by Integrating Visual Odometry and Satellite Image Matching	Pengcheng Zhang, Huan Chen, Junqi Wu and Jian Xiong
73	Multi-Task Learning for UAV Trajectory Prediction and Intent Recognition	Qian Liang, Zhongzheng Wang, Junqi Wu and Jian Xiong

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7:00-9:00 a.m. UTC-3 (Brazil Standard Time)		
Virtual Session 2: RAG & Knowledge Engineering & Video coding		
Chair: Pollyana Notargiacomo		
Paper ID	Title	Authors
45	A Method for Building a RAG System in the Human Resources Domain	Juntao Yu, Xinchu Li and Xiaoqing Xia
83	PromptChain: Rule-Guided Prompt Chain Technology for Noise-Robust Retrieval Filtering	Dan Liu, Shunyu Yao and Yun Shen
84	CrossCheck: Knowledge Conflict Detection via Pre-trained MLM Perplexity	Dan Liu, Shunyu Yao and Yun Shen
85	VerifyFirst: Self-Consistency Verification for Multi-Hop Retrieval	Shunyu Yao, Dan Liu and Yun Shen
86	EvoRAG: An Active Knowledge Graph Construction and Retrieval Framework Based on Dialogue History	Shunyu Yao, Dan Liu and Yun Shen
109	An Edge-AIoT Framework for Real-Time Health Data Broadcasting and Activity Recognition on Resource-Constrained Devices	Ting Wang, Melisa Karaagac, Keren Couton, Nicolas Charpentier, Matthieu Constantin and Ilyas. Alamiidrissi
134	Adaptive Clipping for Convolutional Cross-Component Models in Video Coding	Congfeng Liao, Zhikai Liu, Linchen Xu, Yangkun Lu and Fan Liang
135	Context-Aware Decoder-side Intra Mode Derivation for Next Generation Video Coding	Zhikai Liu, Linchen Xu, Yangkun Lu and Fan Liang

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July 8, 2026		
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10:30 a.m.–12:10 p.m.		
Session 1: ATSC 3.0 B2X		
Chair: Ricardo Rabaça and Eneko Iradier		
Paper ID	Title	Authors
129	Broadcast-based SWIPT Architecture for Disaster Alert and Smart City Control: A Hybrid OFDM-PPM Waveform Strategy	Jeonghyeon Park and Junghoon Kim
31	Detection Performance of SS Bootstrap in B2X Systems	Yecheol Lee, Beomjun Kim, Sehun Park, Jeongchang Kim, Sung-Ik Park, Sunhyoung Kwon, Mark Aitken, Sangsu Kim, Michael Simon, David Starks, Essam Sourour and Sesh Simha
33	Detection of Scaled Bootstraps Using Narrowband Filters for B2X-IoT Devices	Beomjun Kim, Yecheol Lee, Sehun Park, Jeongchang Kim, Sung-Ik Park, Sunhyoung Kwon, Mark Aitken, Sangsu Kim, Michael Simon, David Starks, Essam Sourour and Sesh Simha
34	Performance Evaluation of VFS Symbol Detection in B2X Bootstraps	Yecheol Lee, Beomjun Kim, Jeongchang Kim, Sung-Ik Park, Sunhyoung Kwon, Mark Aitken, Sangsu Kim, Michael Simon, David Starks, Essam Sourour and Sesh Simha
30	Comparison of Bootstrap Designs for ATSC 3.0 and Broadcast-to-Everything Systems	Jeongchang Kim, Yecheol Lee, Beomjun Kim, Sung-Ik Park, Sunhyoung Kwon, Mark Aitken, Sangsu Kim, Michael Simon, David Starks, Essam Sourour and Sesh Simha

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Session 2: Video Analysis and AI/LLM Applications		
Chair:George Maranhão and Gabriel Miro Muntean		
Paper ID	Title	Authors
60	Real-Time Video Anomaly Detection in Smart-City Surveillance Systems Using Deep Learning	Saketh Goud Edigi, Christian Horn and Cristina Hava Muntean
61	Latency-Aware Edge-Cloud Collaborative Framework for Real-Time Video Analytics	Yash Santosh Bidkar, Sean Heeney and Cristina Hava Muntean
4	Beyond Ratings: Multimodal Multimedia Recommendation via FAISS and Generative AI	Shih Yu Chang, Mayank Kapadia and Yiyan Wu
10	Hallucinations Are Not Inevitable: Factual Prompting for Reliable Vision-Language Models	Weijie Qiu, Xiao Hu, Zhuqing Jiang, Tian He, Xiaogang He and Aidong Men

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Session 3: Point Cloud/3D Systems and QoS		
Chair: Fadi Jerji and Jian Song		
Paper ID	Title	Authors
37	PointPCA ³ : Scalable Point Cloud Quality Assessment via Voxelization-based Spatial Sampling	Arthur Henrique Silva Carvalho and Pedro Garcia Freitas
55	Efficient and Robust Deep Joint Source-Channel Coding for Wireless Point Cloud Transmission	Junjie Wu, Lei Luo, Hongwei Guo and Ce Zhu
127	Saliency-Based Local Binary Patterns for Point Cloud Quality Assessment	Ian Mello, Maria Luiza Bezerra and Pedro Freitas
28	Breaking the Mold: Moving Beyond the Score-Centric Blind Image Quality Assessment Framework	Tian He, Zhuqing Jiang, Weijie Qiu, Kewei Wu and Qiaowei Zhang

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2:00–3:40 p.m.		
Session 4: BPS, Antenna Array and Heterogeneous SFN		
Chair: Gustavo de Melo Valeira and Jeongchang Kim		
Paper ID	Title	Authors
27	Nationwide Time Sourcing Based on Terrestrial Broadcast Networks: BPS Project	Sungjun Ahn, Sungho Jeon, Jaekwon Lee, Sunhyoung Kwon and Sung-Ik Park
54	The Broadcast Positioning System (BPS) - a compliment to the Global Positioning System (GPS)	Fred Engel, Sam Matheny, Tariq Mondal, Patrick Diamond, Mark Corl and Andrew Hansen
105	Far-Field Conversion Based Near-Field Beam Training in Extremely Large-Scale Antenna Array Communication Systems	Jingbo Tan and Jintao Wang
14	Average-Mutual-Information-Based Link-Level Performance Analysis for Heterogeneous Single-Frequency Networks	Xiaohan Zhou, Kewu Peng, Jizheng Sun, Chao Zhang and Jian Song
118	Performance Assessment of OTFS Based Broadcast Systems in High Mobility and SFN channels	Abdelmoumen Mouaki Benani and Larbi Talbi

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2:00–3:40 p.m.		
Session 5: XR Systems and Networks		
Chair: Débora C. Muchaluat-Saade and Maurizio Murrone		
Paper ID	Title	Authors
121	An End-to-End Olfactory Pipeline for Artistic XR with Real-Time Gas Sensing and Unsupervised Learning	Anderson Augusto Simiscuka, Matis Picoreau, Gianluca Fadda, Vlad Popescu, Maurizio Murrone and Gabriel-Miro Muntean
93	Machine Learning-Enabled QoE-Aware XR Services over O-RAN-Based 6G Networks	Devanshu Anand and Gabriel-Miro Muntean
99	A Wearable 5G-to-USB Gateway for Standalone VR Headsets in 5G Networks	Edoardo Pilia, Simone Porcu, Gianluca Fadda, Alessia Palladino, Luigi Atzori, Maurizio Murrone and Massimo Farina
116	EnviLoop: A Privacy-Aware Edge-Assisted IoT–XR Multimedia Service Architecture for Smart Venues	Gianluca Fadda, Alessia Palladino, Maurizio Murrone, Nicusor Amarie, Daniel Calaver, Marian Alexandru, Vlad

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Session 6: Intelligent Communication Systems and Data-Driven Signal Processing		
Chair: Boris Kauffmann and Jintao Wang		
Paper ID	Title	Authors
63	Design of Adaptive LDPC-UEP Scheme for AFDM-IM Systems	Senji Liu, Dazhi He, Yin Xu, Aimin Tang, Xinghao Guo, Xiaoyuan Li and Wenjun Zhang
18	Physics-Aware Semantic Communication with Edge LLMs for Unmanned Surface Vehicle Intent Recognition	Yi Han, Guangcong Xie, Abdul Hadi Mayar, Yi Zhong, Ting Bi, Zhenhui Yuan and Gabriel-Miro Muntean
114	Shearlet-UNet Based Adenoid Hypertrophy Grading	Yueqiang Feng, Chang Duan, Siyu Chen, Jiayi Qian, Chunrong Zhao, Sen Yang and Hongwei Guo
32	Continual Learning for Pilot-Free End-to-End Communication via Dynamic Elastic Weight Consolidation	Mi Zhang, Rui Zeng, Jingbo Tan, Jintao Wang and Jian Song
81	Dynamic Optimization of Joint Time-Frequency Precoding for Aircraft-Vehicle MIMO in THz Fast Time-Varying Channels	Mengliang Li and Shuai Han

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4:00–5:10 p.m.		
Session 7: ISDB-T3/S3, 3GPP PTM, and Multicast/Broadcast		
Chair: Francisco Peres and Dazhi HE		
Paper ID	Title	Authors
16	Noise Resilient Phase Synchronization Method for ISDB-S3 over 12-GHz-band Satellite Broadcasting	Masaaki Kojima, Yuki Koizumi and Masashi Kamei
19	Transmitting Station Identification Code for ISDB-T3	Yuki Hirabayashi, Tomoaki Takeuchi and Masahiro Okano
5	Practical Channel Knowledge Map-aided Secure Beamforming for Multicast Systems	Haohan Wang, Xu Shi, Hengyu Zhang and Jintao Wang
20	Hardware Verification of ISDB-T Signal Canceller for Asynchronous LDM Systems	Akihiko Sato, Tomoaki Takeuchi and Masahiro Okano

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4:00–5:10 p.m.		
Session 9: NN/DRL Applications and Microphone Array		
Chair: Josemar Cruz and Hsiao Chun WU		
Paper ID	Title	Authors
64	Behavioral Modeling and Digital Predistortion for Wideband Power Amplifiers based on Mamba Neural Network	Cheng Deng, Dazhi He, Yin Xu, Yunfeng Guan and Kai Ying
90	A QoS-Aware Deep Reinforcement Learning Solution with Adaptive SLA Violation Correction for B5G Network Slicing	Abid Yaqoob, Anderson Augusto Simiscuka, Cristina Hava Muntean and Gabriel-Miro Muntean
124	OFDM PAPR Reduction Using Evolutionary Algorithms	Fadi Jerji and Cristiano Akamine
102	Analysis of Microphone Arrays and Beamforming Techniques for Implementation in Telemedicine Equipment	Caique Passolongo and Vitor Nascimento

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Session 8: Streaming and VLC		
Chair: Pedro Garcia Freitas and Ting Bl		
Paper ID	Title	Authors
29	MAEViT-Enabled Channel Knowledge Map Construction for Visible Light Communication	Wenkai Deng, Baolin Lai, Liwei Tang, Xiaodong Liu, Zhenghai Wang, Yuhao Wang and Xun Zhang
95	Digital Twin Assisted QoE-Aware Video Streaming over 5G New Radio Networks	Pietro Zema, Chiara Suraci, Gabriel-Miro Muntean and Giuseppe Araniti
128	HR-VA360: 3D Human Reconstruction and Viewport-Adaptive 360-Degree Video Streaming for Virtual Reality Content	Syed Mohammad Haseeb Ul Hassan, Muhammad Turab, Attracta Brennan, Gabriel-Miro Muntean and Jennifer McManis