

June 15

WEDNESDAY

OPENING CEREMONY (8:30 - 9:00)

Conference Chair Welcome
Broadcast Technology Society President Welcome
Welcome to the University of the Basque Country

KEYNOTES - ROOM "BAROJA" (9:00 -11:00)

Samina Husain (BTS)	The Relevance, Resilience, and Role of Broadcast Television
Madeleine Noland (ATSC)	ATSC 3.0 Adoption and Evolution
Emily Dubs (DVB)	New DVB solutions for a time of transition

COFFEE BREAK - ROOM "CHILLIDA" (11:00 -11:30)

PARALLEL SESSIONS 1A (11:30-12:50) Room: "BAROJA" ATSC	PARALLEL SESSIONS 1B (11:30-12:50) Room: "ARRIAGA" MULTIMEDIA I	PARALLEL SESSIONS 1C (11:30-12:50) Room: "LABOA" FUTURE DTT
Paper: 14 - Fred Engel - ATSC 3.0 as a Use Case for Public Safety Communications Paper: 48 - Hoiyoon Jung - Core-Layer Performance Comparison of ATSC 3.0 LDM-MIMO System in Mobile Environment Paper: 79 - Seok-Ki Ahn - Improvement of L1 Signaling Protection Based on ATSC 3.0 LDPC Codes Paper: 58 - Haechan Kwon - Laboratory tests for ATSC 3.0-centric combination of cross-polarized MIMO and LDM with varying XPDs Paper: 136 - Eneko Iradier - Signal Isolation in Full-Duplex Inter-Tower Communication Networks: Field Trials	Paper: 13 - Mohammed Amine Togou - An Elastic DASH-based Bitrate Adaptation Scheme for Smooth On-Demand Video Streaming Paper: 22 - Abid Yaqoob - Flexible Tiles in Adaptive Viewing Window: Enabling Bandwidth-Efficient and Quality-Oriented 360° VR Video Streaming Paper: 117 - Matteo Anedda - Targeted Advertisement in HbbTV Multimedia Contents Paper: 32 - Yining Feng - Adaptive Video Streaming Based on Learning Intrinsic Reward Paper: 67 - Han Qin - Temporally Dependent Rate-Distortion Optimization for AV1 Encoder	Paper: 134 - Rufino Cabrera - Opportunistic PLP: Maximizing the Spectrum Usage in DTT Paper: 4 - Zhihong Hong - Blind RF Self-Interference Cancellation for In-Band Distribution Link in ATSC 3.0 Paper: 12 - Kotoko Furuya - Verification of Low-Latency Channel for Advanced ISDB-T Paper: 56 - Scholastique Aïzo - Applying ATSC 3.0 NUC-2D constellations to DVB-T2: an improved performance case study Paper: 21 - Guozhi Chen - Minimizing Age of Synchronization in No-buffer Wireless Networks with Random Arrivals

LUNCH (13:15 -14:45)

PARALLEL SESSIONS 2A (14:45 -16:05) Room: "BAROJA" FUTURE DTT II	PARALLEL SESSIONS 2B (14:45 -16:05) Room: "ARRIAGA" FIELD TRIALS	PARALLEL SESSIONS 2C (14:45 -16:05) Room: "LABOA" MULTIMEDIA II
Paper: 55 - Fadi Jerji - Designing Non-Uniform Constellations using an Artificial Immune System Paper: 86 - Julio Omi - Performance Analysis of TV 3.0 Over-the-Air Physical Layer Protocols Paper: 115 - Yu Xue - Combining LDM and MIMO for Mixed Broadcast-Broadband Service Delivery Paper: 94 - Allan Chaubet - Analysis of the Transport Layer Candidate Technologies for the TV 3.0 Project Paper: 66 - Lorenzo Fanari - Channel Coding for the Control Plane in Broadcast Networks	Paper: 11 - Marta Fernández - Empirical Analysis of Time Variability of Electromagnetic Exposure due to Mobile Communications Paper: 59 - Sungjun Ahn - Empirical Modeling of UHF Wireless Channel in HPHT SFNs: Based on Seoul Metropolitan Case Paper: 90 - Sungho Jeon - Nationwide Integrated 24/7 Monitoring System for ATSC 3.0 Single Frequency Broadcast Network Paper: 57 - Dreyelian Morejón - Cost efficient spectrum monitoring platform for advanced management and optimization of wireless systems Paper: 82 - Yong Zhao - Latency Analysis and Field Trial for 5G NR	Paper: 35 - Roberto Viola - Assessment of the effects of 5G MEC cache on DASH adaptation algorithms Paper: 27 - Chetna Singhal - EVB360: Efficient 360-Degree Video Broadcast in Next-Generation Cellular Networks Paper: 78 - Mengying Liu - Subjective quality assessment of one-to-one videotelephony services Paper: 167 - Torbjörn Einarsson - Elastic Frame Protocol - an open-source alternative to MPEG-2 TS Paper: 7 - Yun Zhou - Efficient Network Utilizing Feature Redundancy for Single Image Super-Resolution

COFFEE BREAK - ROOM "CHILLIDA" (16:05-16:30)

POSTER SESSION 3D - ROOM "CHILLIDA" (16:30 -17:30)

Paper: 1 - Xiaoyin Zhao - Multi independent logical cells under 5G Radio Access Network Sharing of mobile operators Paper: 2 - Jingyi Cao - Hiding Among Your Neighbors: Face Image Privacy Protection with Differential Private k-anonymity Paper: 3 - Xiao Li - Research on 5G Shared Network Access Residency Strategy Paper: 8 - Chenghao Lei - Cost and QoS Balanced Service Function Graph Scaling Algorithm for Cloud-Edge Collaborative Multimedia IoT Paper: 9 - Shi Wang - Risk-Aware Computation Offloading and Resource Allocation for Multimedia Services in FiWi HetNets Paper: 10 - Bowen Gao - Network Traffic Classification Based on Domain Adaptive Migration for Multimedia Services in Smart City Networks Paper: 15 - Xiaohao Mo - Wideband Sparse Spectrum Sensing With the Virtual Grid Model Paper: 18 - Xinyue Zhao - An Intelligent Mining Method of Alarm Knowledge Based on Multimedia Software-defined Network Paper: 23 - Xinyu Hou - Information Directed Learning Algorithm for Minimizing the Queue Length Paper: 25 - Yuqiao He - Scheduling Algorithms for Minimizing the Age of Synchronization in Wireless Networks with Random Updates under Throughput Constraints	Paper: 26 - Peiyi Zhao - On Bit Mapping for Golden Angle Modulation in the Presence of Strong Phase Noise Paper: 30 - Wei Sun - Blind Quality Assessment for in-the-Wild Images via Hierarchical Feature Fusion Strategy Paper: 39 - Fengshuang Li - An Optimal Block-Scheduling Algorithm for Pipelined Block-Parallel LDPC Decoder Paper: 45 - Mingshi Wen - Failure Prediction Based VNF Migration Mechanism for Multimedia Services in Power Grid Substation Monitoring Paper: 51 - You Zhou - On Energy Cyclic Replenishment of Combined UAV for Live Broadcast Paper: 52 - Shenyang Zhu - Wireless Channel Recognition by CNN Paper: 60 - Wei Liu - Real-Time Intelligent Machine-Vision Assisted Industrial-Informatics System Paper: 61 - Jinkyu Kang - Wireless Self-Energy Recycling for Unmanned Aerial Vehicle-based Terrestrial Broadcasting Paper: 65 - Yuri Batov - High Power Amplifier Nonlinearity Models and Digital Predistortion Techniques in DVB-S2X Paper: 68 - Yujie Yan - Trustworthiness Measurement for Multimedia Domain Knowledge Graph	Paper: 70 - Peng Yu - Active Cell Outage Detection Algorithm for Broadband Services in 5G Cloud Radio Access Networks Paper: 71 - Analysis and Implementation of MIMO Antenna Miniaturization Paper: 72 - Ye Wang - Design and Implementation of Traffic Scheduling Algorithm for Time-Sensitive Network Paper: 74 - Xinwu Hou - Joint Parameterized Resource Allocation for IAB Networks with Deep Reinforcement Learning Paper: 75 - Jia Hou - Extend Abstract: Coverage Requirements Analysis of 5G Voice Services Paper: 76 - Xiaobo Li - Dynamic Traffic Anomaly Detection for Broadband Smart Grid Services in Software Defined Networks Paper: 80 - Jinyang Yu - Research on Coverage and Capacity of 5G VoNR Paper: 81 - Xiaohang Xu - Interleaved Floor MIMO Solution in 5G Indoor System Paper: 83 - Fan Hong - Deep Reinforcement Learning based Mode Selection and Power Allocation Scheme for Convergent Power-Efficient Network Paper: 87 - Han Guo - Research on Handover Technology in 5G NSA and SA Hybrid Network
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End of Conference Day 1