The IEEE International Symposium on Broadband Multimedia Systems and Broadcasting 2021, the 16th in the series, will be held in August 4-6, 2021, Chengdu, China. The symposium is the premier forum for the presentation and exchange of technical advances in the rapidly converging areas of multimedia broadcasting, telecommunications, consumer electronics, and networking technologies.

Conference Website: www.bmsb2021.com ; BTS BMSB

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The symposium seeks unpublished technical papers on topics, including but not limited to:

1. Multimedia Transmission
- Channel modelling & Simulation
- Channel coding, modulation, multiplexing
- Advanced signal processing for transmission
- MISO and MIMO processing
- Channel estimation and equalization
- Antenna technologies
- Propagation and coverage
- Terrestrial and satellite delivery
- Mobile TV and advanced HD Radio
- Field Trials and test results
- Next generation of broadcasting standards and systems
- 5G: New Radio & New Core
- LTE Advanced Pro
- Making better use of the spectrum
- UAV communication and route planning
- Resources allocation
- Machine learning for communications

2. Multimedia Networking
- IPTV and streaming
- Internet TV and OTT
- LTE eMBMS, MooD & SC-PTM
- VoD, interactivity, datacasting
- Multimedia NFV & SDN
- Machine learning techniques for traffic and performance monitoring
- Congestion control in AI-enabled BMS
- AI-enabled networking and QoS provisioning

3. Multimedia Signal Processing
- Multimedia coding: image, video, audio, 3D point cloud, mesh, light field image/video
- Error resilient and concealment
- Retrieval and indexing
- Multimedia information security
- Synthetic imaging and rendering
- Scalable video coding & Content adaptation
- Artificial intelligence based multimedia coding
- Explainable AI, fairness, accountability, privacy, transparency and ethics in media processing

4. Multimedia Service, Quality and Content
- Multimedia for connected cars
- Multimedia IoT
- Multimedia datacasting
- Multimedia security
- Broadcast applications to Smart Cities
- Performance evaluation techniques
- Quality evaluation and dataset
- Audience measurement & behavior study
- Application systems: DTV, surveillance, telemedicine
- Quality of Experience
- Distributed or edge/fog-based multimedia service
- Cloud−based multimedia service
- Future broadcasting services
- Convergence of Broadcast and Broadband
- Cloud and Content management

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Prospective authors are invited to submit extended summary (around 1000 words) or full paper (6 pages maximum) to https://cmt3.research.microsoft.com/BMSB2021/ **(available Nov. 2020)**
Each submission should include at least two keywords chosen from the topics mentioned above. All accepted and presented papers will be submitted for inclusion in IEEE Xplore®.
Awards of the best paper and the best student paper will be presented.

Submission of extended summary/full paper: March 1, 2021
Notification of acceptance: May 17, 2021
Submission of camera-ready papers: June 18, 2021
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