

	16 Dec 2019	17 Dec 2019	18 Dec 2019
9:00-9:35	Opening (Chair: Prof. Guangzheng Yu, SCUT) Welcome (Prof. Richard So, HKUST) Opening Address (Dean Ricky Lee, HKUST)	Keynote: Binaural Audio – From ideals to reality by Brian Katz (CNRS) Chair: Tom Ho (S&V Samford)	Keynote Speech Processing with Computer Vision Techniques by Qifeng Chen (HKUST) Chair: Calvin Zhang (Incus)
9:35-9:55	Keynote: Supporting Binaural Audio in Creative Applications by Rebecca Stewart (Imperial College)	P7: Sponsor session: Tencent Media Lab by Simeon Shang S&V Samford by Tom Ho INCUS by Calvin Zhang CapeLab by Wei Zhang	P15: DNN-based approach for estimating direction of arrival of indoor sound source with a microphone array by Rongliang Liu, Nengheng Zheng (Shenzhen University)
9:55-10:15	photo taking and logistics announcement	P8: Effect of early reflections on virtual sound source localization in vehicle: based on a two-loudspeaker reproduction system by Linda Liang and Guangzheng Yu (South China University of Technology)	P16: Improving monaural speech enhancement at low signal-to-noise ratios: a deep-learning based detector for noise under-estimation by Yue Wei (Incus Ltd.)
10:15-10:45	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>
10:45-11:20	Keynote: Studying Bilateral Advantage in Prosthetic Hearing by Fei Chen (Southern University of Science and Technology) Chair: Wei Zhang (CapeLabs)	Keynote: Advances in Spherical Harmonics based Spatial Acoustics by Thushara Abhayapala (The Australian National University) Chair: Simeon Shang (Tencent Media Lab)	P17: Huijun-Preliminary study on overfitting in deep-learning speech separation model by Jun Hui (HKUST)
11:20-11:40	P1: Acoustic scene classification via combination of neural networks by Wucheng Wang & Yanxiong Li (South China University of Technology)	P9: A Voting Strategy of Classifiers for Acoustic scene Classification by Mingle Liu & Yanxiong Li (South China University of Technology)	P18: A Deep Learning Approach to Speech Enhancement under Real Noisy Environments by Yannan WANG (Tencent Media Lab)
11:40-12:00	P2: Collecting azimuths of sound source azimuth localization experiment: a graphical user interface based direction recording method by Dong Cui and Guangzheng Yu (South China University of Technology)	P10: Deep Neural Network-based Music Segment Detection in Long Audio Recordings by Buddhika Karunaratne and Albert Y.S. Lam (Fano Labs and University of Hong Kong)	Closing Remark: Richard So (HKUST)
12:00-14:00	<i>Lunch (outside)</i>	<i>Lunch (on-site) and Sponsored lunch for Keynote speakers and Industry sponsors.</i>	
14:00-14:35	Keynote: Spatial Sound ---- History, Principle, Progress and Challenge by Bosun Xie (South China University of Technology) Chair: He Wang (HKUST)	Keynote: A Novel Text Driven 3D Speech Animation System By Zengfu Wang (University of Science and Technology of China) Chair: Albert Lam (HKU)	
14:35-14:55	P3: Optimal modular neural network model for multisensory integration by He Wang (HKUST Shenzhen Research Institute)	P11: Comparisons of anthropometric parameters and head-related transfer functions between typical Chinese head and KEMAR manikin by Zhenyu Guo, Yigang Lu, Zhelin Li, Youming Fan and Guangzheng Yu (South China University of Technology)	
14:55-15:15	P4: A low computation complexity real-time implementation on DSP of monaural speech enhancement based on MMSE estimator by Fengzhi Tu (Incus Ltd.)	P12: A Pilot Study on Combination Methods for Audio Source Extraction With Reverberation by Yudong He, Jun Hui and Richard So (HKUST)	
15:15-15:45	<i>tea time</i>	<i>tea time</i>	
15:45-16:20	Keynote: Noise Robust Signal Processing Strategy Based on Deep Neural Networks for Cochlear Implants by Nengheng Zheng (Shenzhen University) Chair: Yanxiong Li (SCUT)	Keynote: Elevation Perception and Control in 3D Audio Reproduction by Junfeng Li (Chinese Academy of Sciences) Chair: Richard So (HKUST)	
16:20-16:40	P5: Facing the noise over-estimation issue for monaural speech enhancement: the recover mask for time-frequency units learned by bi-LSTM by Bohan Chen (HKUST Shenzhen Research Institute)	P13: Current spread inspired vocoder for cochlear implants by Kai Dang (Incus Ltd.)	
16:40-17:00	P6: Vocoder Simulation of Spatial Direction Identification by Bilateral Cochlear Implants with The Temporal Limits Encoder by Yangyang Wan, Nengheng Zheng and Qinglin Meng (Shenzhen University, South China University of Technology)	P14: Sound Localization Ability of Bilateral Severe or Profound Sensorineural Hearing Loss Patients with Different Hearing Intervention Patterns by Donghua Huang, Guangzheng Yu, Hongming Huang, Yan Huang, zhenyu Guo, Yunye Huang and Peina Wu (GD Provincial People's Hospital, GD Academy of Medical Sciences, and South China University of Technology, Shantou University Medical College)	
17:00 - 17:20		P14b: High Efficient Speech Super Resolution based on Deep Neural Networks and Adaptive Filtering by Wei XIAO (Tencent Media Lab)	
		Transportation to the restaurant	
18:00-20:00	Reception for keynote speakers	Banquet	