

HSCMA 2008 - Technical Program
May 6 - Day Focusing on Issues Related to Microphone Arrays

9.00 - 9.45	Welcome Session
9.45 - 10.30	First Keynote: Biing-Hwang (Fred) Juang - Georgia Inst. of Technology, Atlanta, GA, USA "Bringing Source Intelligence to Acoustic Signal Processing"
10.30 - 10.45	<i>Coffee Break</i>
10.45 - 12.45	Special session n. 1 - Microphones, Array Topology, and Array Processing (chaired by Gary Elko - MH Acoustics LLC, USA) 1) Jens Meyer and Gary W. Elko "Handling Spatial Aliasing in Spherical Array Applications" 2) Boaz Rafaely "Spatial Sampling and Beamforming for Spherical Microphone Arrays" 3) Nicolas Epain and Jerome Daniel "Pushing the Frequency Limits of Spherical Microphone Arrays" 4) Ramani Duraiswami, Nail A. Gumerov and Adam O'Donovan "Spherical Arrays near Boundaries" 5) Akihiko Sugiyama, Thanh Phong Hua, Regine Le Bouquin Jeannes, Gerard Faucon "A Comparative Study of Adaptation-Mode Control for Generalized Sidelobe Cancellers in Human-Robot Communication"
12.45 - 14.15	<i>Lunch</i>
14.15 - 16.15	Special session n. 2 - Unsupervised Microphone Arrays for Hands-free Speech Communication (chaired by Shoji Makino - NTT Communication Science Labs, Japan) 1) Herbert Buchner and Walter Kellermann "A Fundamental Relation between Blind and Supervised Adaptive Filtering illustrated for Blind Source Separation and Acoustic Echo Cancellation" 2) Patrick A. Naylor, Xiang (Shawn) Lin, and Andy W. H. Khong "Near-common Zeros in Blind Identification of SIMO Acoustic Systems" 3) Maria G. Jafari, Mark D. Plumbley, Mike E. Davies "Speech Separation using an Adaptive Sparse Dictionary Algorithm" 4) Shoko Araki, Masakiyo Fujimoto, Kentaro Ishizuka, Hiroshi Sawada, and Shoji Makino "A DOA Based Speaker Diarization System for Real Meetings"
16.15 - 16.45	Short oral presentation of posters (2' per paper)
16.45 - 18.30	Poster session n. 1 - Microphone Arrays Signal Processing (chaired by Walter Kellermann - Univ. of Erlangen-Nuremberg, Germany) <i>(including coffee break)</i>
20.00	<i>Welcome Cocktail</i>

May 7 - Day Focusing on Issues Related to HSC

9.00 - 9.15	Introduction to the second day
9.15 - 10.00	Second Keynote: David Nahamoo and Michael Picheny - IBM T.J. Watson Research, Yorktown Heights, NY, USA "Coping with Data Addiction in the Quest for Robust Speech Recognition"
10.00 - 10.15	<i>Coffee Break</i>
10.15 - 12.15	Special session n. 3 - ASR Robustness, both With and Without Arrays (chaired by Satoshi Nakamura - NICT/ATR, Japan) 1) Jasha Droppo "Single Channel Enhancement for Speech Recognition" 2) Richard M. Stern, Evandro Gouvea, Chanwoo Kim, Kshitiz Kumar, and Hyung-Min Park "Binaural and Multiple-microphone Signal Processing motivated by Auditory Perception" 3) Michael Seltzer Bridging the GAP: Towards a Unified Framework for Hands-free Speech Recognition using Microphone Arrays" 4) John Mc Donough and Matthias Wölfel "Distant Speech Recognition: Bridging the Gaps"
12.15 - 12.45	Short oral presentation of posters (2' per paper)
12.45 - 14.15	<i>Lunch</i>
14.15 - 16.15	Special session n. 4 - Communication and Interaction in Smart Environments (chaired by Sadaoki Furui - Tokyo Institute of Technology, Japan) 1) Steve Renals, Thomas Hain, and Herve Boulard "Interpretation of Multiparty Meetings: the AMI and AMIDA Projects" 2) Gerasimos Potamianos, Jing Huang, Etienne Marcheret, Vit Libal, Rajesh Balchandran, Mark Epstein, Ladislav Seredi, Martin Labsky, Lubos Ures, Matthew Black, and Patrick Lucey "Far-field Multimodal Speech Perception and Conversational Interaction in Smart Spaces" 3) Hiroshi G. Okuno and Kazuhiro Nakadai "Computational Auditory Scene Analysis and its Application to Robot Audition" 4) John H. L. Hansen, Wooil Kim, and Pongtep Angkititrakul "Advances in Human-machine Systems for In-vehicle Environments"
16.15 - 18.00	Poster session n. 2 - Hands-free Speech Recognition and Speech Communication (chaired by Maurizio Omologo - FBK-irst, Italy) <i>(including coffee break)</i>
19.00	<i>Transfer to the site of the Social Dinner Event</i>
20.00	<i>Gala Dinner</i>

May 8 - Microphone Arrays and HSC - Convergence of Research towards Industrial Applications

9.00 - 9.15	Introduction to the third day
9.15 - 10.00	Third Keynote: Gerhard Schmidt - Harman/Becker Automotive Systems, Ulm, Germany "Recent Trends for Improving Automotive Speech Communication Systems"
10.00 - 12.45	Demo session <i>(including coffee break)</i>
12.45 - 14.15	<i>Lunch</i>
14.15 - 14.45	Short oral presentation of posters (2' per paper)
14.45 - 16.30	Poster session n.3 - Further topics in Hands-free Speech Communication (chaired by Dirk Slock - Eurecom Institute, Sophia Antipolis Cedex, France) <i>(including coffee break)</i>
16.30 - 17.15	Final panel and concluding remarks
17.30	Welcome + Opening Talk by Maurizio Omologo
17.45 - 18.15	Introduction to the DICIT Project (M. Omologo)
20.00	DICIT event: Welcome at Grand Hotel Trento
May 9 9.00 - 16.00	DICIT Workshop at FBK-irst