

APSIPA 2016 Technical Program

Ver 14

Tuesday, 13th Dec. 2016								
13:00~17:00	Registration (Convention Lobby)							
14:00~17:30	Tutorial Sessions							
14:00~17:30	Tutorial 1 (Ballroom 1) Recent R&D Trends and Outlook on Brain-Computer/Machine Interface (BCI/BMI) Technique Sung Chan Jun				Tutorial 2 (Ballroom 3) Multi-microphone Speech Recognition Shinji Watanabe, Xiong Xiao, Marc Delcroix			
18:00~20:00	Welcome Reception (Ballroom 1)							
Wednesday, 14th Dec. 2016								
08:30~18:00	Registration (Convention Lobby)							
09:00~09:30	Opening Ceremony (Ballroom 1)							
09:30~10:30	Keynote 1 (Ballroom 1) How did "DRC-HUBO+" win the DARPA Robotics Challenge? – Robust Computer Vision Algorithms for "DRC-HUBO+" Prof. In So Kweon, KAIST, Korea							
Chair	Ming-Ting Sun, University of Washington							
10:30~11:00	Coffee Break							
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
11:00~12:20	W01	W02	W03	W04	SS01	SS02	SS10(10:50~12:30)	SS08
Session Title	Speech Processing and Synthesis with Deep Network	Communications and Networks	Digital Signal Processing - filter design and adaptive filtering	Depth Estimation and Applications	Graph Signal Processing for Advanced Imaging Problems	Advanced Video Processing, Assembly and Analysis	Light field acquisition, processing and representation	Recent topics in theory and applications of sampling and sensing
Paper ID	79 140 154 160	24 95 27	67 99 52 74	5 7 98 121	155 169 292 293	128 159 183	60 90 96 171 244	170 221 233 297
Chair	Chin-Hui Lee	Chung-Nan Lee	Kenji Suyama	Hsueh-Ming Hang	Yuichi Tanaka	Zongming Guo	Xin Jin	Akira Hirabayashi Sinuk Kang
12:20~14:00	Lunch (Convention Lobby)				TC Meeting: SIPTM	TC Meeting: SLA	TC Meeting: WCN	Friend Lab. 01
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
14:00~15:40	Overview 1	W05	W06	W07	SS21-1	SS16	SS17-1	SS15(13:50~15:50)
Session Title	(O2) Visual Correspondence Estimation, (O3) Pattern Learning in Closed-Form (O4) DBN-based human identification	Compressed Sensing and Applications	Acoustics and Speech Processing with Deep Network	Salient Object Detection and Applications	Multi-view and 3D video system technologies - 1	Human Visual/Audio/Image and Biomedical Information Processing and its Applications	Advanced Image Processing and Computer Vision Techniques - 1	Recent topics in biosignal processing for behavior and cognition
Paper ID	130(O2) 41(O3)	91 177 119	127 136 178 280	15 82 210 300	135 232 258	109 184 194 195 267	51 147 166 200	22 49 204 282 284 285
Chair	Hakil Kim	Sinuk Kang	Jong Won Shin	Jae-Young Sim	Wen-Nung Lie	Kosin Chamnongthai	Chang-su Kim	Toshihisa Tanaka
15:40~16:10	Coffee Break							
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
16:10~17:50	W08	W09	W10	W11	SS21-2	SS18	SS17-2	SS12
Session Title	Image/Video Restoration and Enhancement	Speech Recognition	Image Processing - retrieval, classification, segmentation, hyper-spectral images	Image and Security	Multi-view and 3D video system technologies - 2	Video Compression and Communications	Advanced Image Processing and Computer Vision Techniques - 2	Computer-Assisted Language Learning
Paper ID	11 301 302 14 125	29 32 153 164 239	35 205 114 218	53 251 295	145 219 234 287	148 149 152 185	47 207 229 272	139 227 246 268 298
Chair	Byung Cheol Song	Yuuki Tachioka	Jian-Jiun Ding	Ngai-Fong Law	Jitae Shin	Byung Tae Oh	Jewon Kang	Haizhou Li
18:00~20:30	Board Meeting (Mara)							
Thursday, 15th Dec. 2016								
08:30~18:00	Registration (Convention Lobby)							
09:00~10:00	Keynote 2 (Ballroom 1) Fun with Music Processing Research Prof. Shigeki Sagayama, Fellow of IEICE, Meiji University, Japan							
10:00~10:30	APSIPA Assembly (Ballroom 1)							
10:30~11:00	Coffee Break							
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
11:00~12:20	T01	T02	T03	T04	SS22-1	SS20	SS14	T05
Session Title	Speech Processing with Deep Network	Computational Imaging and Photography	Sensors and Applications	Human Action/Gait/Face Recognition	Multimedia Security and Forensics - 1	High Efficiency Video Coding and Processing Technology for the Emerging applications	Oriental Multilingual Speech Processing and Oriental Language Recognition (OLR) Challenge	Stereo Image Matching, Disparity Estimation and Coding
Paper ID	104 196 266 28	45 66 71 189	20 36 188	8 23 226 279	13 17 117 167	97 143 190 262	220 241 269 242	101 277 290 299
Chair	Lei Xie	Homer Chen	Ji Won Yoon	Dongbo Min	Xiangui Kang	Supavadee Aramwith	Dong Wang	Sangkeun Lee
12:20~14:00	Lunch (Convention Lobby)				TC Meeting: BioSIPS	TC Meeting: IVM	TC Meeting: SPS	Friend Lab. 02

	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
14:00~15:40	Overview 2	T06	T07	SS03	SS22-2	SS09	SS19(13:50~15:50)	SS07(13:50~15:50)
Session Title	(O5) Free-view TV, (O6) RD optimization in video coding, (O11) Audio watermarking: a quick overview	Speech Emotion	Array Processing, Multiple Signal Analysis and Applications	Advanced topics in Multi-Dimensional Image Processing and its Applications	Multimedia Security and Forensics - 2	New Trends on Signal Processing for Active Control of Sound	Image/video compression and saliency detection	Advanced Machine Learning Techniques for Classification and Detection from Multimedia Data
Paper ID	281(O8)	137 146 238 123	55 75 165 142	254 255 259 263 278	191 201 224 294	37 134 199 202 275	59 108 133 144 175 187	40 138 150 181 192 283
Chair	Yo-Sung Ho	Hong Kook Kim	Shunsuke Yamaki	Yoshimitsu Kuroki	Xiangui Kang	Yoshinobu Kajikawa Chuang Shi	Chunyu Lin	Shang-Hong Lai Chia-Wen Lin
15:40~16:10	Coffee Break							
16:10~17:40	Plenary Industrial Forum							
18:30~21:00	Banquet (Ballroom 1)							
Friday, 16th Dec. 2016								
08:30~15:00	Registration (Convention Lobby)							
09:00~10:00	Keynote 3 (Ballroom 1) Two Historic Shipwrecks – 3D Imaging Survey and 3D Reconstruction Processing Prof. Andrew Woods, Curtin University, Australia							
Chair	Wan-Chi Siu, Hong Kong Polytechnic University							
10:00~10:30	Coffee Break							
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
10:30~11:50	F01	F02	F03	F04	F05	F06	F07	F08
Session Title	High Efficiency Video Coding	Image Processing and Recognition with Convolutional Network	Speech Processing and Recognition	Screen Content Coding and other compression methods	Signal and Image Processing for Bio and Medical Applications	Object Recognition and Identity Recognition	Language Processing 1	Music Processing
Paper ID	33 34 56 157	212 16 106 107	57 186 256	21 84 217 89	247 252 265	115 48 68 63	80 64 65	46 61 208 211
Chair	Jewon Kang	Nam Ik Cho	Keiichi Funaki	Dong-Gyu Sim	Chang-Su Kim	Sanghoon Lee	Kazumasa Yamamoto	Li Su
11:50~13:30	Lunch (Convention Lobby)					Technical Board Meeting	Conference Board Meeting	Friend Lab. 03
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
13:30~15:10	Overview 3	F09	F10	F11	SS04	SS13	SS05	SS11
Session Title	(O1) Forensics with image and vision, (O7) Liveness detection (O8) Sound field control	Audio Processing and Audio Scene Classification	Voice Conversion and Speech Enhancement	Image and Video Processing - image matching, correspondence, shadow, stabilization	Recent topics in neural signal processing and brain-machine/computer interfaces	Identity recognition using speech, visual, and multimedia processing techniques	Recent topics on array signal processing for wireless communications	Advanced Signal Processing and Machine Learning for Audio and Acoustic Applications
Paper ID	70(O7)	62 228 203 88 168	92 174 85 94 231	72 81 86 162 214	112 176 193 223 276	87 122 245 248 273	39 243 253 257 296	25 179 197 206 222
Chair	Woon-Seng Gan	Christian Ritz	Masanobu Abe	Kiyoshi Nishikawa	Hiroshi Higashi	Qin Jin Ming Li	Kazunori Hayashi	Shoji Makino Hiroshi Saruwatari
15:10~15:40	Coffee Break							
	Ballroom 1	Ballroom 2	Ballroom 3	Ballroom 4	Biyang	Chuja	Mara	Udo
15:40~16:40	Overview 4	F12	F13	F14	F15		F16	
Session Title	(O9) Indoor GPS, (O10) MIMO ANC System	Image Quality	Speaker Recognition	Speech and Security	Mathematics for Signal Processing - residue number system, graph models		Language Processing 2	
Paper ID	291(O9)	58 83 110	76 240 249	26 43 180	236 286		111 289 100	
Chair	Wonjun Kim	TBD	Dong Wang	Xiong Xiao	Anthony Kuh		TBD	
16:40~17:30	Closing Ceremony (Ballroom 1)							
18:00~21:00	Board Meeting & Appreciation Dinner (by invitation only)							