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<i>James Kates, Kathryn Arehart, University of Colorado, Boulder, United States</i>	
WAA-6.4: A Realtime, Open-Source Speech-Processing Platform for Research in Hearing Loss Compensation	1900
<i>Harinath Garudadri, University of California, San Diego, United States; Arthur Boothroyd, San Diego State University, United States; Ching-Hua Lee, Swaroop Gadiyaram, Justyn Bell, Dhiman Sengupta, Sean Hamilton, Krishna Chaithanya Vastare, Rajesh Gupta, Bhaskar D. Rao, University of California, San Diego, United States</i>	

WAA-7: Hardware Design for Machine Learning (Invited)

WAA-7.1: Minimizing Area and Energy of Deep Learning Hardware Design Using Collective Low Precision and Structured Compression	1907
<i>Shihui Yin, Gaurav Srivastava, Shreyas K. Venkataramanaiah, Chaitali Chakrabarti, Visar Berisha, Jae-sun Seo, Arizona State University, United States</i>	
WAA-7.2: Sub-uJ Deep Neural Networks for Embedded Applications	1912
<i>Paul Whatmough, Arm Research / Harvard University, United States; Sae Kyu Lee, Gu-Yeon Wei, David Brooks, Harvard University, United States</i>	
WAA-7.3: A Method to Estimate the Energy Consumption of Deep Neural Networks	1916
<i>Tien-Ju Yang, Yu-Hsin Chen, Massachusetts Institute of Technology, United States; Joel Emer, Massachusetts Institute of Technology/Nvidia, United States; Vivienne Sze, Massachusetts Institute of Technology, United States</i>	
WAA-7.4: Minimum Energy Quantized Neural Networks	1921
<i>Bert Moons, Koen Goetschalckx, Nick Van Berckelaer, Marian Verhelst, KU Leuven, Belgium</i>	

WAb-1: Theory of Structured Waveforms

WAb-1.1: HiHTP: A Custom-Tailored Hierarchical Sparse Detector for Massive MTC	1929
<i>Gerhard Wunder, Ingo Roth, Rick Fritschek, Jens Eisert, FU Berlin, Germany</i>	
WAb-1.2: Lossless Natural Sampling for PWM Generation	1935
<i>Noyan Sevuhtekin, Andrew Singer, University of Illinois at Urbana-Champaign, United States</i>	
WAb-1.3: Dimension Spreading for Coherent Opportunistic Communications	1940
<i>Jordi Borras, Technical University of Catalonia, Spain; Josep Font-Segura, Universitat Pompeu Fabra, Spain; Jaume Riba Sagarra, Gregori Vázquez Grau, Technical University of Catalonia, Spain</i>	

WAb-2: Speech Processing

WAb-2.1: Real-World Evaluation of Multichannel Audio Enhancement Using Acoustic Pilot Signals	1947
<i>Ryan Corey, Andrew Singer, University of Illinois at Urbana-Champaign, United States</i>	
WAb-2.2: Robust Real-time Sound Pressure Level Stabilizer for Multi-Channel Hearing Aids Compression for Dynamically Changing Acoustic Environment	1952
<i>Yiya Hao, Ram Charan Chandra Shekar, Gautam Shreedhar Bhat, Issa M.S. Panahi, University of Texas at Dallas, United States</i>	

WAb-2.3: A Framework for Speech Enhancement Using Extreme Learning Machines1956
Babafemi Odelowo, David Anderson, Georgia Institute of Technology, United States

WAb-3: Signal Processing over Graphs and Networks

WAb-3.1: Time Estimation for Heat Diffusion on Graphs1963
Oguzhan Teke, P. P. Vaidyanathan, California Institute of Technology, United States

WAb-3.2: Partial Embedding Distance for Networks1968
Weiyu Huang, Alejandro Ribeiro, University of Pennsylvania, United States

WAb-3.3: A Graph Diffusion LMS Strategy for Adaptive Graph Signal Processing1973
Roula Nassif, Cédric Richard, Université Nice Sophia Antipolis, France; Jie Chen, Northwestern Polytechnical University, China; Ali H. Sayed, University of California, United States

WAb-4: Deep Learning and Applications

WAb-4.1: Interleaver Design for Deep Neural Networks1979
Sourya Dey, Peter A. Beerel, Keith M. Chugg, University of Southern California, United States

WAb-4.2: On Noise Reduction for Handwritten Writer Identification1984
Karl Ni, Patrick Callier, Bradley Hatch, Jonathan Mastarone, James Cline, In-Q-Tel, United States

WAb-4.3: Association of Emitter and Emission Using Deep Learning1989
Trevor Landeen, Jake Gunther, Todd Moon, Utah State University, United States; David Ohm, Robert North, KickView, United States

WAb-5: Array Signal Processing Algorithms

WAb-5.1: MUSIC and Ramanujan: MUSIC-like Algorithms for Integer Periods Using1997
Nested-Periodic-Subspaces
Srikanth V. Tenneti, P. P. Vaidyanathan, California Institute of Technology, United States

WAb-5.2: Underwater Acoustic Source Localization using Unimodal-constrained Matrix2002
Factorization
Junting Chen, Urbashi Mitra, University of Southern California, United States

WAb-5.3: Leveraging Massive MIMO Spatial Degrees of Freedom to Reduce Random Access2007
Delay
Fatima Ahsan, Ashutosh Sabharwal, Rice University, United States

WAb-6: Neural Signal Processing

WAb-6.1: Data-Driven Estimation of Mutual Information using Frequency Domain and its2015
Application to Epilepsy
Rakesh Malladi, LinkedIn and Rice University, United States; Don Johnson, Rice University, United States; Giridhar Kalamangalam, Nitin Tandon, University of Texas Health Science Center, United States; Behnaam Aazhang, Rice University, United States

WAb-6.2: An Autoregressive Approach to Inference in Populations of Correlated Stochastic2020
Neurons
Alireza Sheikhattar, University of Maryland, College Park, United States; Siamak Sorooshyari, Ellipsis Health, United States; Behtash Babadi, University of Maryland, College Park, United States

WAb-6.3: Multiplicative Updates for Optimization Problems with Dynamics2025
Abbas Kazemipour, Behtash Babadi, Min Wu, University of Maryland, United States; Kaspar Podgorski, Shaul Druckmann, Janelia Research Campus, United States

WAb-7: Video Processing

WAb-7.1: Multi-Object Detection and Tracking via Kernel Covariance Factorization in2033
Thermal Video
Guohua Ren, Ioannis Schizas, University of Texas at Arlington, United States

WAb-7.2: Interactive Image and Video Classification using Compressively Sensed Images2038
Jaclynn Stubbs, Sandia National Laboratories, University of New Mexico, United States; Marios Pattichis, University of New Mexico, United States; Gabriel Birch, Sandia National Laboratories, United States

WAb-7.3: Motion-Aware Video Quality Assessment2042
Marina Georgia Arvanitidou, Thomas Sikora, Technische Universität Berlin, Germany

AS16-: Presented at Asilomar 2016

AS16-1: Flash Memories in High Radiation Environments: LDPC Decoder Study2049
Frederic Sala, Clayton Schoeny, Shahroze Kabir, University of California, Los Angeles, United States;
Dariusz Divsalar, Lara Dolecek, Jet Propulsion Laboratory, California Institute of Technology, United States

AS16-2: On Spatial Security Outage Probability Derivation of Exposure Region Based2054
Beamforming with Randomly Located Eavesdroppers
Yuanrui Zhang, Youngwook Ko, Roger Woods, Queen's University Belfast, United Kingdom; Alan Marshall, University of Liverpool, United Kingdom; Joseph R. Cavallaro, Kaipeng Li, Rice University, United States