

Technical Program

A Paper Search (Papers/AbstractSearch.asp) function is also available.

Sunday, November 3

15:00 - 19:00

Registration

Merrill Hall
(RegularProgram.asp?location=Merrill+Hall)

16:00 - 18:00

Student Paper Contest (StudentPaperContest.asp)

Merrill Hall
(RegularProgram.asp?location=Merrill+Hall)

17:00 - 18:00

Keynote: Nikos Sidiropoulos - Canonical Identification: A Principled Alternative to Neural Networks (Keynote.asp)

Nautilus (RegularProgram.asp?location=Nautilus)

19:00 - 21:00

Welcoming Reception

Merrill Hall
(RegularProgram.asp?location=Merrill+Hall)

Monday, November 4

07:30 - 09:00

Breakfast

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

08:00 - 18:00

Registration

08:15 - 09:45

MA1a: Conference Welcome and Plenary Session (Plenary.asp)

Chapel (RegularProgram.asp?location=Chapel)

09:45 - 10:15

Coffee Social

10:15 - 11:55

MA1b: Beyond Massive MIMO (Invited)

Nautilus (RegularProgram.asp?location=Nautilus)

(Papers/PublicSessionIndex3.asp?Sessionid=1049)

MA2b: Advances in Sequential Estimation, Sampling, and Testing

Surf & Sand

(Invited) (Papers/PublicSessionIndex3.asp?Sessionid=1033)

(RegularProgram.asp?location=Surf+%26+Sand)

MA3b: New Perspectives on Multiple Access (Invited)

Triton (RegularProgram.asp?location=Triton)

(Papers/PublicSessionIndex3.asp?Sessionid=1008)

MA4b: Deep Learning for Inverse Problems (Invited)

Heather (RegularProgram.asp?location=Heather)

(Papers/PublicSessionIndex3.asp?Sessionid=1032)

MA5b: Graph Signal Processing: Advances in Sampling, Filtering, Reconstruction (Invited)

Scripps (RegularProgram.asp?location=Scripps)

(Papers/PublicSessionIndex3.asp?Sessionid=1057)

MA6b: Compilation for Spatial Computing Architectures (Invited)

Toyon (RegularProgram.asp?location=Toyon)

(Papers/PublicSessionIndex3.asp?Sessionid=1000)

MA7b: Modeling, Optimization, and Machine Learning for Computational Imaging (Invited)

Acacia (RegularProgram.asp?location=Acacia)

(Papers/PublicSessionIndex3.asp?Sessionid=1064)

MA8b1: Audio, Video, and Speech Processing

Merrill (RegularProgram.asp?location=Merrill)

(Papers/PublicSessionIndex3.asp?Sessionid=1106)

MA8b2: DOA Estimation, Beamforming, and Localization
(Papers/PublicSessionIndex3.asp?Sessionid=1091) Merrill (RegularProgram.asp?location=Merrill)

MA8b3: Array Processing for Signal Detection and Classification
(Papers/PublicSessionIndex3.asp?Sessionid=1090) Merrill (RegularProgram.asp?location=Merrill)

12:00 - 13:00

Lunch

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

13:30 - 15:10

MP1a: MIMO for mmWave and THz (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1048) Nautilus (RegularProgram.asp?location=Nautilus)

MP2a: Distributed Learning in Multi-Agent Environments (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1055) Surf & Sand
(RegularProgram.asp?location=Surf+%26+Sand)

MP3a: Optimization Methods for Wireless Communications
(Invited) (Papers/PublicSessionIndex3.asp?Sessionid=1020) Triton (RegularProgram.asp?location=Triton)

MP4a: Geometric Deep Learning 1 (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1034) Heather (RegularProgram.asp?location=Heather)

MP5a: Compressive Sensing and Line Spectral Estimation (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1031) Scripps (RegularProgram.asp?location=Scripps)

MP6a: Signal Processing Advances in Neural Modeling (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1063) Toyon (RegularProgram.asp?location=Toyon)

MP7a: Mathematical Data Science (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1022) Acacia (RegularProgram.asp?location=Acacia)

MP8a1: Architectures and Implementations
(Papers/PublicSessionIndex3.asp?Sessionid=1105) Merrill (RegularProgram.asp?location=Merrill)

MP8a2: Wireless Networks
(Papers/PublicSessionIndex3.asp?Sessionid=1104) Merrill (RegularProgram.asp?location=Merrill)

MP8a3: Networks: Models and Systems
(Papers/PublicSessionIndex3.asp?Sessionid=1103) Merrill (RegularProgram.asp?location=Merrill)

15:30 - 17:10

MP1b: Millimeter-Wave MIMO Systems with Low-Complexity
Processing (Invited) Nautilus (RegularProgram.asp?location=Nautilus)

(Papers/PublicSessionIndex3.asp?Sessionid=1017)

MP2b: Distributed Optimization in Networked Settings (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1056) Surf & Sand
(RegularProgram.asp?location=Surf+%26+Sand)

MP3b: Tensor Modeling and Processing (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1014) Triton (RegularProgram.asp?location=Triton)

MP4b: Geometric Deep Learning 2 (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1060) Heather (RegularProgram.asp?location=Heather)

MP5b: Advances in Bayesian Machine Learning (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1026) Scripps (RegularProgram.asp?location=Scripps)

MP6b: Neuromorphic Computing (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1003) Toyon (RegularProgram.asp?location=Toyon)

MP7b: Geometric and Topological Methods (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1024) Acacia (RegularProgram.asp?location=Acacia)

18:30 - 21:30

Conference Cocktail/Social - The Cocktail/Social takes the place of
Monday's dinner. No charge for conference attendees and a guest.

Merrill Hall
(RegularProgram.asp?location=Merrill+Hall)

Tuesday, November 5**07:30 - 09:00**

Breakfast

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

08:00 - 18:00

Registration

08:15 - 09:55

TA1a: Machine Learning for Channel Coding (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1016)
TA2a: Spectrum Sharing (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1013)
TA3a: Distributed MIMO (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1051)
TA4a: Statistical Signal Processing and Big Data Analysis (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1036)
TA5a: Signal Processing Advances in Neuroimaging I (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1066)
TA6a: Computer Arithmetic (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1002)
TA7a: Adaptive Beamforming and Interference Mitigation (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1009)
TA8a1: Convex and Non-Convex Optimization and Phase Retrieval
(Papers/PublicSessionIndex3.asp?Sessionid=1070)
TA8a2: Compressive Sensing and Sparsity
(Papers/PublicSessionIndex3.asp?Sessionid=1073)
TA8a3: Estimation and Adaptive Filtering
(Papers/PublicSessionIndex3.asp?Sessionid=1074)
TA8a4: Transmission and Beamforming Schemes
(Papers/PublicSessionIndex3.asp?Sessionid=1085)

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10:15 - 11:55

TA1b: Short-Packet Communications (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1018)
TA2b: Signal Processing for Multiple-Antenna Systems with
Coarsely Quantized Signals (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1053)
TA3b: Optimization of MIMO Systems (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1050)
TA4b: Theory of Deep Learning (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1037)
TA5b: Neuroscience-inspired Machine Learning (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1065)
TA6b: VLSI Systems for Communications (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1004)
TA7b: Automotive Radar (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1010)
TA8b1: Communication Systems
(Papers/PublicSessionIndex3.asp?Sessionid=1041)
TA8b2: Learning and Estimation in Imaging
(Papers/PublicSessionIndex3.asp?Sessionid=1069)
TA8b3: Cognitive Radio, Spectrum Sharing, Localization, and
Radar (Papers/PublicSessionIndex3.asp?Sessionid=1044)
TA8b4: System Analysis, Performance Evaluation, and
Optimization (Papers/PublicSessionIndex3.asp?Sessionid=1086)

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12:00 - 13:00

Lunch

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

13:30 - 15:10

TP1a: Vehicle-to-Everything (V2X) Communication for Emerging Applications (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1019)
TP2a: Self-Interference Cancellation in Radio Frequency Transceivers (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1021)
TP3a: MIMO and Cognitive Radar (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1011)
TP4a: Machine Learning and Inverse Problems (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1035)
TP5a: Deep Learning and Neuroscience (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1067)
TP6a: Sparse Arrays, Non-convex Inverse Problems, and Fundamental Limits (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1012)
TP7a: Machine Learning and Optimization in Distributed Networks (Invited) (Papers/PublicSessionIndex3.asp?Sessionid=1058)
TP8a1: Coding and Caching
(Papers/PublicSessionIndex3.asp?Sessionid=1045)
TP8a2: Multi-Sensor Parameter Estimation
(Papers/PublicSessionIndex3.asp?Sessionid=1093)
TP8a3: Array Signaling, Calibration, and Processing
(Papers/PublicSessionIndex3.asp?Sessionid=1094)
TP8a4: Biomedical Imaging and Signal Processing
(Papers/PublicSessionIndex3.asp?Sessionid=1099)

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15:30 - 17:35

TP1b: Reliable and Low-Latency MIMO Communication (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1052)
TP2b: Signal Processing for UAV/UGV Sensing (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1015)
TP3b: MIMO Beamforming and Beamtracking (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1047)
TP4b: Machine Learning Advances in Computational Imaging (Invited) (Papers/PublicSessionIndex3.asp?Sessionid=1062)
TP5b: Inference and Learning in Graphs
(Papers/PublicSessionIndex3.asp?Sessionid=1088)
TP6b: AI/Machine Learning Architectures (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1001)
TP7b: Optimization Methods in Array Processing
(Papers/PublicSessionIndex3.asp?Sessionid=1107)
TP8b1: Architectures for Arithmetic and Signal Processing Systems
(Papers/PublicSessionIndex3.asp?Sessionid=1007)
TP8b2: Online and Active Learning and Adaptive and Cognitive Systems (Papers/PublicSessionIndex3.asp?Sessionid=1078)
TP8b3: Matrix and Tensor Methods
(Papers/PublicSessionIndex3.asp?Sessionid=1092)

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17:35 - 23:00

Open Evening - Enjoy the Monterey Peninsula

Wednesday, November 6

07:30 - 09:00

Breakfast

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

08:00 - 12:00

Registration

08:15 - 09:55WA1a: Hardware-Aware MIMO Transmission Strategies
(Papers/PublicSessionIndex3.asp?Sessionid=1081)

Nautilus (RegularProgram.asp?location=Nautilus)

WA2a: Advances in Neural Modeling
(Papers/PublicSessionIndex3.asp?Sessionid=1097)Surf & Sand
(RegularProgram.asp?location=Surf+%26+Sand)WA3a: Modulation and Coding
(Papers/PublicSessionIndex3.asp?Sessionid=1040)

Triton (RegularProgram.asp?location=Triton)

WA4a: Deep Learning Theory (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1023)

Heather (RegularProgram.asp?location=Heather)

WA5a: Game-Theoretic Learning in Networks (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1059)

Scripps (RegularProgram.asp?location=Scripps)

WA6a: Machine Learning in Communications
(Papers/PublicSessionIndex3.asp?Sessionid=1071)

Toyon (RegularProgram.asp?location=Toyon)

WA7a: Imaging and Multimedia (Invited)
(Papers/PublicSessionIndex3.asp?Sessionid=1025)

Acacia (RegularProgram.asp?location=Acacia)

WA8a1: Estimation, Inference, and Learning
(Papers/PublicSessionIndex3.asp?Sessionid=1079)

Merrill (RegularProgram.asp?location=Merrill)

WA8a2: Image Processing and Applications
(Papers/PublicSessionIndex3.asp?Sessionid=1029)

Merrill (RegularProgram.asp?location=Merrill)

WA8a3: Signal Processing and Applications
(Papers/PublicSessionIndex3.asp?Sessionid=1030)

Merrill (RegularProgram.asp?location=Merrill)

WA8a4: 5G and Beyond
(Papers/PublicSessionIndex3.asp?Sessionid=1043)

Merrill (RegularProgram.asp?location=Merrill)

10:15 - 11:30WA1b: IoT and Cell-Free Massive MIMO
(Papers/PublicSessionIndex3.asp?Sessionid=1038)

Nautilus (RegularProgram.asp?location=Nautilus)

WA2b: Estimation, Optimization, and Learning
(Papers/PublicSessionIndex3.asp?Sessionid=1082)Surf & Sand
(RegularProgram.asp?location=Surf+%26+Sand)WA3b: Ultra-Reliable and Low-Latency Communication
(Papers/PublicSessionIndex3.asp?Sessionid=1039)

Triton (RegularProgram.asp?location=Triton)

WA4b: Machine Learning
(Papers/PublicSessionIndex3.asp?Sessionid=1080)

Heather (RegularProgram.asp?location=Heather)

WA5b: Age of Information: Advances
(Papers/PublicSessionIndex3.asp?Sessionid=1089)

Scripps (RegularProgram.asp?location=Scripps)

WA6b: Signal Processing Advances in Neuroimaging II
(Papers/PublicSessionIndex3.asp?Sessionid=1098)

Toyon (RegularProgram.asp?location=Toyon)

WA7b: Signal Processing Methods for Radar
(Papers/PublicSessionIndex3.asp?Sessionid=1096)

Acacia (RegularProgram.asp?location=Acacia)

WA8b1: Deep Learning
(Papers/PublicSessionIndex3.asp?Sessionid=1068)

Merrill (RegularProgram.asp?location=Merrill)

WA8b2: Detection and Estimation Algorithms
(Papers/PublicSessionIndex3.asp?Sessionid=1084)

Merrill (RegularProgram.asp?location=Merrill)

WA8b3: Neural Signal Processing
(Papers/PublicSessionIndex3.asp?Sessionid=1100)

Merrill (RegularProgram.asp?location=Merrill)

WA8b4: Machine Learning
(Papers/PublicSessionIndex3.asp?Sessionid=1077)

Merrill (RegularProgram.asp?location=Merrill)

12:00 - 13:00

Lunch - This meal is not included in the registration.

Crocker Dining Hall
(RegularProgram.asp?location=Crocker+Dining+Hall)

Last updated Thursday, August 23, 2018

Site by Conference Management Services, Inc. (<http://www.cmsworldwide.com/>)

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