

MLSP2018

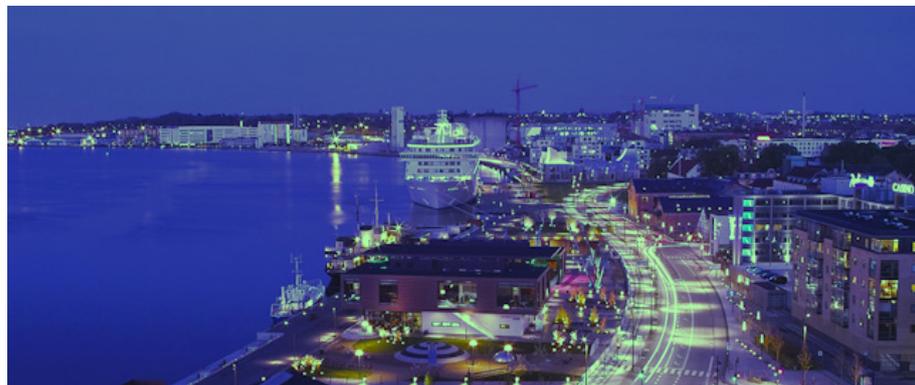
IEEE International Workshop on
MACHINE LEARNING FOR SIGNAL PROCESSING

SEPTEMBER 17-20, 2018 AALBORG, DENMARK

MLSP2018.CONWIZ.DK

Organizing committee

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CALL FOR PAPERS

Machine learning, as the driven force of this wave of AI, provides powerful solutions to many real-world technical and scientific challenges. The 28th MLSP workshop, an annual event organized by the IEEE Signal Processing Society MLSP Technical Committee, will present the most recent and exciting advances in machine learning for signal processing through keynote talks, tutorials, as well as special and regular single-track sessions. Prospective authors are invited to submit papers on relevant algorithms and applications including, but not limited to:

- Learning theory and modeling
- Neural networks and deep learning
- Bayesian Learning and modeling
- Sequential learning, sequential decision methods
- Information-theoretic learning
- Graphical and kernel models
- Bounds on performance
- Source separation and independent component analysis
- Signal detection, pattern recognition and classification
- Tensor and structured matrix methods
- Machine learning for big data
- Large scale learning
- Dictionary learning, subspace and manifold learning
- Semi-supervised and unsupervised learning
- Active and reinforcement learning
- Learning from multimodal data
- Resource efficient machine learning
- Cognitive information processing
- Bioinformatics applications
- Biomedical applications and neural engineering
- Speech and audio processing applications
- Image and video processing applications
- Intelligent multimedia and web processing
- Communications applications
- Other applications including social networks, games, smart grid, security and privacy

Schedule

Paper submission deadline	May 14, 2018
Review notification	June 18, 2018
Decision notification	July 6, 2018
Camera-ready paper deadline and advance registration	July 31, 2018

Sponsored by



MLSP2018 Competition is being organized in conjunction with the workshop. The goal of the competition is to advance the current state-of-the-art in theoretical and practical aspects of machine learning and signal processing domains.

The **MLSP Best Student Paper Award** will be granted to the best paper for which a student is the principal author and presenter.

New **MLSP Networking event** MLSP Networking will be organized as a new initiative to focus on stimulating collaboration among participants to solve grand societal challenges using machine learning and signal processing.

Prospective authors are invited to submit a paper using the electronic submission procedure at mlsp2018.conwiz.dk. Accepted papers will be published on a password-protected website that will be available during the workshop. The presented papers will be published in and indexed by IEEE Xplore, and selected papers will be invited to submit extended versions to a special issue of the Springer Journal of Signal Processing Systems.

An independent **Satellite Workshop** on machine learning for audio processing will be held at DTU, Copenhagen on Sept. 21, 2018.