Important Dates

Submission Deadline for Proceeding Track:	Aug 28, 2023
Submission Deadline for Recent Spotlight Track:	Oct 10, 2023
Final Decisions Released:	Nov 20, 2023
Camera Ready Deadline:	Dec 5, 2023
Main Conference Date:	Jan 3-6, 2024

Overview

- The **Conference on Parsimony and Learning (CPAL)** is an annual research conference focused on addressing the **parsimonious, low dimensional structures that** prevail in machine learning, signal processing, optimization, and beyond.
- *We envision the conference as a general forum where researchers in machine learning, applied mathematics, signal processing, optimization, hardware & systems, and all associated science and engineering applications can gather, share insights, and ultimately work towards a common data-centric understanding of modern parsimonious learning frameworks.*

Topics of interest

- **Models and Algorithms:** parsimonious training and inference algorithms for deep networks; compact and efficient neural network architecture design; robust model; interpretability; generative models; distributed and federated learning; etc.
- **Data:** modern signal models; dataset parsimony; representation learning with structured data; etc.
- **Theory:** generalization, optimization, robustness, and approximation in deep learning; theories for classical sparse coding; fairness, privacy and bias concerns; etc.
- **Hardware and Systems:** accelerating sparse computation; resource-efficient learning; etc.
- **Applications and Science:** parsimonious AI for science and engineering; theoretical neuroscience and cognitive science foundations for parsimony; other cross-disciplinary applications; etc.

Call for Papers

Submission instruction: https://cpal.cc/cfp/
Submission site: OpenReview-CPAL 2024
Submission format: CPAL LaTeX style files

(1) **Proceeding track (archival):** The submission and review stage is double-blind. Full proceedings papers can have up to 9 pages with unlimited pages for references and appendix.

(2) **"Recent Spotlight" Track (non-archival)**: The submission and review stage is single-blind. Submit a conference-style paper up to 9 pages, with extra pages for references. We permit under-review or concurrent submissions.

Invited Speakers

Dan Alistarh, IST Austria/Neural Magic
Tom Goldstein, University of Maryland
Yingbin Liang, Ohio State University
Robert D. Nowak, University of Wisconsin-Madison
Dimitris Papailiopoulos, University of Wisconsin-Madison
Jong Chul Ye, KAIST

Organization Team (See Website)

General Chairs

Yi Ma, UC Berkeley
Gitta Kutyniok, LMU Munich
Harry Shum, HKUST/IDEA
René Vidal, UPenn

Program Chairs

Yuejie Chi, Carnegie Mellon University
Gintare Karolina Dziugaite, Google DeepMind
Qing Qu, University of Michigan
Atlas Wang, UT Austin

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