MMDS

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Schedule MMDS 2016

Meetings

Tue, June 21		Data Analysis	*
08:00	09:45	Breakfast and registration	*
09:45	10:00	Welcome and opening remarks	Organizers
10:00	11:00	Meaningful Visual Exploration of Massive Data	Peter Wang
11:00	11:30	Scalable Collective Inference from Richly Structured Data	Lise Getoor
11:30	12:00	A Framework for Processing Large Graphs in Shared Memory	Julian Shun
12:00	02:00	Lunch	*
02:00	02:30	Matrix Column Subset Selection with Missing Data	Aarti Singh
02:30	03:00	Randomized Low-Rank Approximation and PCA: Beyond Sketching	Cameron Musco
03:00	03:30	Restricted Strong Convexity Implies Weak Submodularity	Alex Dimakis
03:30	04:00	Coffee break	*
04:00	04:30	The Stability Principle for Information Extraction from Data	Bin Yu
04:30	05:00	New Results in Non-Convex Optimization for Large Scale Machine Learning	Constantine Caramanis
05:00	05:30	The Union of Intersections Method	Kristofer Bouchard
05:30	06:00	TBD	Alex Smola
06:00	08:00	Dinner reception	*
Wed, June 22		**Industrial Applications**	*
08:30	09:00	Registration	*
09:00	10:00	New Methods for Designing and Analyzing Large Scale Randomized Experiment	Jasjeet Sekhon
10:00	10:30	Cooperative Computing for Autonomous Data Centers Storing Social Network Data	Jonathan Berry
10:30	11:00	Coffee break	*
11:00	11:30	Is manifold learning for toy data only?	Marina Meila
11:30	12:00	Exploring Galaxy Evolution through Manifold Learning	Jake VanderPlas
12:00	02:00	Lunch	*
02:00	02:30	Fast, flexible, and interpretable regression modeling	Daniela Witten
02:30	03:00	Randomized Composable Core-sets for Distributed Computation	Vahab Mirrokni
03:00	03:30	Local graph clustering algorithms: an optimization perspective	Kimon Fountoulakis
03:30	04:00	Coffee break	*
04:00	04:30	Building Scalable Predictive Modeling Platform for Healthcare Applications	Jimeng Sun

04:30	05:00	Using Principal Component Analysis to Estimate a High Dimensional Factor Model with High-Frequency Data	Dacheng Xiu
05:00	05:30	TBD	Alex Shkolnik
05:30	06:00	Learning about business cycle conditions from four terabytes of data	Serena Ng
Thu, June 23		**Algorithmic Methods**	*
09:00	10:00	Top 10 Data Analytics Problems in Science	Prabhat
10:00	10:30	Low-rank matrix factorizations at scale: Spark for scientific data analytics	Alex Gittens
10:30	11:00	Coffee break	*
11:00	11:30	Structure & Dynamics from Random Observations	Abbas Ourmazd
11:30	12:00	Extracting governing equations from highly corrupted data	Rachel Ward
12:00	02:00	Lunch	*
02:00	02:30	Why Deep Learning Works: Perspectives from Theoretical Chemistry	Charles Martin
02:30	03:00	A theory of multineuronal dimensionality, dynamics and measurement	Surya Ganguli
03:00	03:30	Sub-sampled Newton Methods: Uniform and Non-Uniform Sampling	Fred Roosta
03:30	04:00	Coffee break	*
04:00	04:30	In-core computation of geometric centralities with HyperBall: A hundred billion nodes and beyond	Sebastiano Vigna
04:30	05:00	Higher-order clustering of networks	David Gleich
05:00	05:30	Mining Tools for Large-Scale Networks	Charalampos Tsourakakis
05:30	08:00	Dinner reception and poster session	
Fri, June 24		**Statistical Methods**	*
09:00	10:00	Scalable interaction with data: where artificial intelligence meets visualization	Christopher White
10:00	10:30	TBD	Chris Re
10:30	11:00	Coffee break	*
11:00	11:30	Homophily and transitivity in dynamic network formation	Bryan Graham
11:30	12:00	Nonparametric Network Smoothing	Cosma Shalizi
12:00	02:00	Lunch	*
02:00	02:30	Train faster, generalize better: Stability of stochastic gradient descent	Moritz Hardt
02:30	03:00	Stochastic Integration via Error-Correcting Codes	Dimitris Achlioptas
03:00	03:30	PCA from noisy linearly reduced measurements	Amit Singer
03:30	04:00	Coffee break	*
04:00	04:30	Systemwide Commonalities in Market Liquidity	Mark Flood
04:30	05:00	Fast Graphlet Decomposition	Ted Willke
05:00	05:30	TBD	Matt Taddy

MMDS Foundation Inc.

Workshop on Algorithms for Modern Massive Data Sets

✉ (mailto:organizers@mmds-data.c

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(https://www.youtube.com/channel/UC

DiA) (http://www.linkedin.com/gr

Algorithms-Modern-Massive-5140723)

(https://twitter.com/MMDSWorkshop)

(https://www.facebook.com/pages/MM
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