DeepLearn 2023 Spring
9th INTERNATIONAL SCHOOL ON DEEP LEARNING
Bari, Italy · April 03-07, 2023

Keynotes

Vipin Kumar
University of Minnesota
Knowledge-Guided Deep Learning: A Framework for Accelerating Scientific Discovery

William S. Noble
University of Washington
Deep Learning Applications in Mass Spectrometry Proteomics and Single-Cell Genomics

Emma Tolley
Swiss Federal Institute of Technology Lausanne
Physics-Informed Deep Learning

Courses

Babak Ehteshami Bejnordi
Qualcomm AI Research
[intermediate/advanced] Conditional Computation for Efficient Deep Learning with Applications to Computer Vision, Mult...

Sergei V. Gleyzer
University of Alabama
[introductory/intermediate] Machine Learning Fundamentals and Their Applications to Very Large Scientific Data: Rare S...

Jacob Goldberger
Bar-Ilan University
[introductory/intermediate] Calibration Methods for Neural Networks

Christoph Lampert
Institute of Science and Technology Austria
[intermediate] Training with Fairness and Robustness Guarantees

Yingbin Liang
Ohio State University
[intermediate/advanced] Bilevel Optimization and Applications in Deep Learning

Xiaoming Liu
Michigan State University
[intermediate] Deep Learning for Trustworthy Biometrics

Michael Mahoney
University of California Berkeley
[intermediate] Practical Neural Network Theory: From Statistical Mechanics Basics to Working with State of the Art Mod...
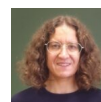
Liza Mijovic
University of Edinburgh
[introductory/intermediate] Deep Learning & the Higgs Boson: Classification with Fully Connected and Adversarial N...

Bhiksha Raj
Carnegie Mellon University
[introductory] An Introduction to Quantum Neural Networks [with Rita Singh, Daniel Justice and Prabh Baweja]

Holger Rauhut
RWTH Aachen University
[intermediate] Gradient Descent Methods for Learning Neural Networks: Convergence and Implicit Bias
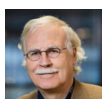
Bart ter Haar Romeny
Eindhoven University of Technology
[intermediate/advanced] Explainable Deep Learning from First Principles

Tara Sainath
Google
[advanced] E2E Speech Recognition [*virtual*]

Martin Schultz
Research Centre Jülich
[intermediate] Deep Learning for Air Quality, Weather and Climate

Adi Laurentiu Tarca
Wayne State University
[intermediate] Machine Learning for Cross-Sectional and Longitudinal Omics Studies

Michalis Vazirgiannis
Polytechnic Institute of Paris
[intermediate/advanced] Graph Machine Learning with GNNs and Applications

Atlas Wang
University of Texas Austin
[intermediate] Sparse Neural Networks: From Practice to Theory

Guo-Wei Wei
Michigan State University
[introductory/advanced] Discovering the Mechanisms of SARS-CoV-2 Evolution and Transmission [*virtual*]

Lei Xing
Stanford University
[intermediate] Deep Learning for Medical Imaging and Genomic Data Processing: from Data Acquisition, Analysis, to Biom...

Xiaowei Xu
University of Arkansas Little Rock
[intermediate/advanced] From Transformer to ChatGPT and beyond: How Large Language Models Revolutionize AI?

More info: https://deeplearn.irdta.eu/2023sp

University of Bari "Aldo Moro"

Rovira i Virgili University

Institute for Research Development, Training and Advice (IRDTA)