

DeepLearn 2022 Autumn

7th INTERNATIONAL SCHOOL ON DEEP LEARNING

Luleå, Sweden · October 17-21, 2022

Keynotes



Wolfram Burgard
University of Freiburg
Probabilistic and Deep Learning Techniques for Robot Navigation and Automated Driving



Tommaso Dorigo
Italian National Institute for Nuclear Physics
Deep-Learning-Optimized Design of Experiments: Challenges and Opportunities



Elaine O. Nsoesie
Boston University
AI and Health Equity

Courses



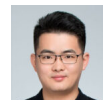
Sean Benson
Netherlands Cancer Institute
[intermediate] Deep Learning for a Better Understanding of Cancer



Daniele Bonacorsi
University of Bologna
[intermediate/advanced] Applied ML for High-Energy Physics



Thomas Breuel
Nvidia
[intermediate/advanced] Large Scale Deep Learning and Self-Supervision in Vision and NLP



Hao Chen
Hong Kong University of Science and Technology
[introductory/intermediate] Label-Efficient Deep Learning for Medical Image Analysis



Jianlin Cheng
University of Missouri
[introductory/intermediate] Deep Learning for Bioinformatics



Nadya Chernyavskaya
European Organization for Nuclear Research
[intermediate] Graph Networks for Scientific Applications with Examples from Particle Physics



Peng Cui
Tsinghua University
[introductory/advanced] Towards Out-Of-Distribution Generalization: Causality, Stability and Invariance



Sébastien Fabbro
University of Victoria
[introductory/intermediate] Learning with Astronomical Data



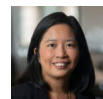
Quanquan Gu
University of California Los Angeles
[intermediate/advanced] Benign Overfitting in Machine Learning: From Linear Models to Neural Networks



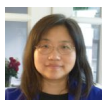
Jiawei Han
University of Illinois Urbana-Champaign
[advanced] Text Mining and Deep Learning: Exploring the Power of Pretrained Language Models



Awni Hannun
Zoom
[intermediate] An Introduction to Weighted Finite-State Automata in Machine Learning



Shirley Ho
Flatiron Institute
[intermediate] Structured Machine Learning for Simulations



Tin Kam Ho
IBM Thomas J. Watson Research Center
[introductory/intermediate] Deep Learning Applications in Natural Language Understanding



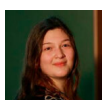
Timothy Hospedales
University of Edinburgh
[intermediate/advanced] Deep Meta-Learning



Shih-Chieh Hsu
University of Washington
[intermediate/advanced] Real-Time Artificial Intelligence for Science and Engineering



Andrew Laine
Columbia University
[introductory/intermediate] Applications of AI in Medical Imaging



Tatiana Likhomanenko
Apple
[intermediate/advanced] Self-, Weakly-, Semi-Supervised Learning in Speech Recognition



Peter Richtárik
King Abdullah University of Science and Technology
[intermediate/advanced] Introduction to Federated Learning



Othmane Rifki
Spectrum Labs
[introductory/advanced] Speech and Language Processing in Modern Applications



Mayank Vatsa
Indian Institute of Technology Jodhpur
[introductory/intermediate] Small Sample Size Deep Learning



Yao Wang
New York University
[introductory/intermediate] Deep Learning for Computer Vision



Zichen Wang
Amazon Web Services
[introductory/intermediate] Graph Machine Learning for Healthcare and Life Sciences



Alper Yilmaz
Ohio State University
[introductory/intermediate] Deep Learning and Deep Reinforcement Learning for Geospatial Localization

More info: <https://irdta.eu/deeplearn/2022au>



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