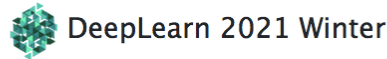





# 4th International School on Deep Learning


























Milan, Italy – January 11–15, 2021



## Keynotes

-  Nello Cristianini (University of Bristol) – **Data, Intelligence and Shortcuts**
-  Petia Radeva (University of Barcelona) – **Uncertainty Modeling and Deep Learning in Food Analysis**
-  Indrė Žliobaitė (University of Helsinki) – **Any Hope for Deep Learning in Deep Time?**

## Courses

-  Ignacio Arganda-Carreras (University of the Basque Country) [introductory/intermediate] **Deep Learning for Bioimage Analysis**
-  Mikhail Belkin (Ohio State University) [intermediate/advanced] **Understanding Deep Learning through the Lens of Over-parameterization**
-  Thomas G. Dietterich (Oregon State University) [introductory/intermediate] **Safe and Robust Artificial Intelligence: Robustness, Calibration, Rejection, and Anomaly**
-  Georgios Giannakis (University of Minnesota) [advanced] **Ensembles for Interactive and Deep Learning Machines with Scalability, Expressivity, and Adaptivity**
-  Sergei V. Gleyzer (University of Alabama) [introductory/intermediate] **Machine Learning Fundamentals and Their Applications to Very Large Scientific Data: Rare Signal and Feature Extraction, End-to-end Deep Learning, Uncertainty Estimation and Realtime Machine Learning Applications in Software and Hardware**
-  Çağlar Gülçehre (DeepMind) [intermediate/advanced] **Deep Reinforcement Learning**
-  Balázs Kégl (Huawei Technologies) [introductory] **Deep Model-based Reinforcement Learning**
-  Ludmila Kuncheva (Bangor University) [intermediate] **Classification of Non-i.i.d. Data**
-  Vincent Lepetit (ENPC ParisTech) [intermediate] **Deep Learning and 3D Geometry**
-  Geert Leus (Delft University of Technology) [introductory/intermediate] **Graph Signal Processing: Introduction and Connections to Distributed Optimization and Deep Learning**
-  Andy Liaw (Merck Research Labs) [introductory] **Deep Learning and Statistics: Better Together**
-  Abdelrahman Mohamed (Facebook AI Research) [introductory/advanced] **Recent Advances in Automatic Speech Recognition**
-  Sayan Mukherjee (Duke University) [introductory/intermediate] **Integrating Deep Learning with Statistical Modeling**
-  Hermann Ney (RWTH Aachen University) [intermediate/advanced] **Speech Recognition and Machine Translation: From Statistical Decision Theory to Machine Learning and Deep Neural Networks**
-  Lyle John Palmer (University of Adelaide) [introductory/advanced] **Epidemiology for Machine Learning Investigators**
-  Razvan Pascanu (DeepMind) [intermediate/advanced] **Understanding Learning Dynamics in Deep Learning and Deep Reinforcement Learning**
-  Jan Peters (Technical University of Darmstadt) [intermediate] **Robot Learning**
-  José C. Príncipe (University of Florida) [intermediate/advanced] **Cognitive Architectures for Object Recognition in Video**
-  Björn W. Schuller (Imperial College London) [introductory/intermediate] **Deep Signal Processing**
-  Sargur N. Srihari (University at Buffalo) [introductory] **Generative Models in Deep Learning**
-  Gaël Varoquaux (INRIA) [intermediate] **Representation Learning in Limited Data Settings**
-  René Vidal (Johns Hopkins University) [intermediate/advanced] **Mathematics of Deep Learning**
-  Ming-Hsuan Yang (University of California, Merced) [intermediate/advanced] **Learning to Track Objects**

## Organizers:



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Institute for Research Development, Training and Advice (IRDTA) – Brussels/London

More info: <https://irdta.eu/deeplearn2021w/>



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