7th International School on Big Data

■ BigDat 2021 Autumn

Beersheba, Israel - October 10-14, 2021

Kevnotes

Valerie Daggett (University of Washington) - Dynameomics: From Atomistic Simulations of All Protein Folds to the

Discovery of a New Protein Structure to the Design of a Diagnostic Test for Alzheimer's Disease

Maria Girone (European Organization for Nuclear Research) - Big Data Challenges at the CERN HL-LHC

lisa Schurer Lambert (Oklahoma State University) - Research Methods as a Lens: How We Know What We Know

Courses

Paolo Addesso (introductory/intermediate) [introductory] Data Fusion for Remotely Sensed Data

Thomas Bäck & Hao Wang (Leiden University) [introductory/intermediate] Data Driven Modeling and Optimization for

Marcelo Bertalmío (Spanish National Research Council) [intermediate] Novel Vision Models in Image Processing, and

How They Can Improve Artificial Neural Networks

Gianluca Bontempi (Université Libre de Bruxelles) [intermediate/advanced] Machine Learning against Credit-card

Fraud: Lessons Learned from a Real Case

Altan Cakir (Istanbul Technical University) [intermediate] Big Data Analytics with Apache Spark

Michael X. Cohen (Radboud University Nijmegen) [introductory] Dimension Explosion and Dimension Reduction in Brain Electrical Activity

[lan Fisk (Flatiron Institute) [introductory] The Infrastructure to Support Data Science

Michael Freeman (University of Washington) [intermediate] Interactive Data Visualization Using D3 + Observable

David Gerbing (Portland State University) [introductory] Derive Meaning from Data with R Visualizations

Christopher W.V. Hogue (Ericsson Inc.) [introductory] Applied Information Theory for Scalable Database Schema and

Query Templates

Ravi Kumar (Google) [intermediate/advanced] Clustering for Big Data

Victor O.K. Li (University of Hong Kong) [intermediate] Deep Learning and Applications

Wladek Minor (University of Virginia) [introductory/Advanced] Big Data in Biomedical Sciences

José M.F. Moura (Carnegie Mellon University) [introductory] Graph Signal Processing

Panos Pardalos (University of Florida) [intermediate/advanced] Optimization and Data Sciences Techniques for Large

Networks

Valeriu Predoi (University of Reading) [introductory] A Beginner's Guide to Big Data Analysis: How to Connect

Scientific Software Development with Real World Problems

Karsten Reuter (Max Planck Society) [introductory/intermediate] Machine Learning for Materials and Energy

Applications

Ramesh Sharda (Oklahoma State University) [introductory/intermediate] Network-based Health Analytics

Steven Skiena (Stony Brook University) [introductory/intermediate] Word and Graph Embeddings for Machine

Learning

Alexandre Vaniachine (VirtualHealth) [intermediate] Open-source Columnar Databases

🗽 Sebastián Ventura (University of Córdoba) [intermediate/advanced] Supervised Descriptive Pattern Mining

Xiaowei Xu (University of Arkansas, Little Rock) [introductory/advanced] Language Models and Applications

Organizers:



Ben-Gurion University of the Negev



More info: https://irdta.eu/bigdat2021a

