

EMbeDS 2019 WORKSHOP

Economics and Management
in the era of Data Science

26-27 NOVEMBER 2019



Department
of Excellence
2018 - 2022

Registration form: <https://www.embeds.santannapisa.it/form/register-embeds-2019-workshop-%E2%80%93-nov-26-27-2019>

Sant'Anna School of Advanced Studies Piazza Martiri della Libertà n.33, Pisa - Aula Magna

26 NOVEMBER

08:45am-09:15am Coffee and registration

Morning: Introduction and presentations by EMbeDS recruits.

09:15am-09:30am **Francesca Chiaromonte**, EMbeDS Scientific Coordinator. *A few words about EMbeDS.*

09:30am-11:00am **EMbeDS recruits, Session I**

Chair: Nicola Belle'

Caterina Sganga, DIRPOLIS. *Intellectual property and data ownership: balancing exclusivity and access.*

Chiara Seghieri, Institute of Management. *Assessing access, quality and equity of care using observational data: current research and future directions.*

Andrea Vandin, Institute of Economics and Department of Applied Mathematics and Computer Science, DTU Technical University of Denmark. *Speeding up simulation of large-scale dynamical networks by aggregation* (in remote).

11:00am-11:30am Coffee break

11:30am-01:00pm **EMbeDS recruits, Session II**

Chair: Alessandro Nuvolari

Anna Maria Murante, Institute of Management. *Co-producing services and health.*

Francesco Lamperti, Institute of Economics. *Climate risks in complex economies: are there opportunities beyond costs?*

Paola Cantarelli, Institute of Management. *Behavioral public management: A focus on work motivation in mission-driven jobs.*

Daniele Giachini, Institute of Economics. *Market Learning.*

01:00pm-2:00pm Light lunch

Afternoon: Scientific sessions organized by young EMbeDS researchers.

02:00pm-03:30pm **New perspectives on climate change economics and big data**

Chairs: Matteo Coronese and Francesco Lamperti

Guido Cervone, Department of Geography & Institute for Cyber Science. The Pennsylvania State University. *Remote sensing target recognition using image spectroscopy and deep learning.*

Simone Vantini, MOX-Department of Mathematics. Politecnico di Milano. *Object-Oriented Data Analysis for Climate Change and Energy Economics.*

Chiara Lo Prete, Department of Energy and Mineral Engineering. The Pennsylvania State University. *California's cap-and-trade program and emission leakage in the electricity sector: an empirical analysis.*

Klaus Keller, Department of Geosciences, the Pennsylvania State University, will join the discussion in remote

03:30pm-05:00pm **The value of big data in healthcare**

Chairs: Daniel Lungu and Anna Maria Murante

Bin Yu, Departments of Statistics & Computer Science. University of California Berkeley. *Iterative Random Forests (iRF) with applications to biomedical problems.*

Francesca Ieva, Department of Mathematics. Politecnico di Milano, *The broken promise of Big Data in Healthcare and the new challenges of Health Analytics.*

Till Bärnighausen, Heidelberg Institute of Global Health. (in remote)

05:00pm-5:30pm Coffee break

05:30pm-7:00pm **Prediction, learning and inference: data science from theory to practice**

Chairs: Giorgio Tripodi and Daniele Giachini

Nicolò Cesa-Bianchi, Dipartimento di Informatica e Data Science Research Center, Università degli Studi di Milano. *Nonstochastic Bandit Problems on Graphs.*

Michael Lechner, Swiss Institute of Empirical Economic Research, University of St. Gallen. *Modified Causal Forests for Estimating Heterogeneous Causal Effects.*

Christian Brownlees, Department of Economics and Business, Universitat Pompeu Fabra. *Community detection in partial correlation networks models.*

27 NOVEMBER

09:45am-10:15am Coffee and registration

Morning: Keynote Public Lecture.

10:15am-10:30am **Sabina Nuti**, Rector of Sant'Anna, *Introduction*

10:30am-12:30am **Bin Yu**, Departments of Statistics & Computer Science. University of California Berkeley. *Veridical Data Science*

Chair: Andrea Mina

12:30pm-2:00pm Light lunch

Afternoon: Perspectives from institutional and private sector stakeholders.

02:00pm-04:30pm **Perspectives from institutional stakeholders**

Chair: Giovanni Dosi

Giovanni Felici, European Research Council Executive Agency and Consiglio Nazionale delle Ricerche, *The European Research Council Grants: funding opportunities for frontier science.*

Fosca Giannotti, Istituto di Scienza e Tecnologie dell'Informazione, Italian National Research Council (CNR), Pisa. *Explainable Machine Learning for Trustworthy Artificial Intelligence*

Denise Amram, Sant'Anna School of Advanced Studies. *Predictive Jurisprudence: an interdisciplinary project.*

Paolo De Rosa, Italian Digital Team.

Aldo Ravazzi Douvan, Ministero dell'Ambiente.

04:30pm-05:00pm Coffee break

05:00pm-07:00pm **Perspectives from private stakeholders**

Chair: Fabio Iraldo

Piero Altoè - Business Development Manager South-Europe and Middle-East, NVIDIA.

Paolo Carnevale, Executive Director, Fondazione ENI Enrico Mattei.

Antonio Pelliccia, Business Development Healthcare & Life Science, IBM Italia. *AI in Healthcare & Life Science: examples and challenges.*

Gian Luca Cattani, R&D Director and Member of Board of Directors, MAPS Group. *Data Driven Governance: Combining Administrative and Clinical Information for a Better Healthcare.*

07:00pm-07:15pm **Francesca Chiaromonte**, EMbeDS Scientific Coordinator. *Goodbyes.*