Welcome to CO@Work

ZIB

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MATHEMATICAL ALGORITHMIC INTELLIGENCE
AI IN SOCIETY, SCIENCE, AND TECHNOLOGY (AIS²T)

SEPTEMBER 2020

CO@Work 2020

ZIB

The CO@Work Summer School in a nutshell

- 2 weeks summer school

- Takes only place every five years

- This year's theme: "Algorithmic Intelligence in Practice"

- More than 30 distinguished speakers
  FICO, Google, SAP, Siemens, SAS, Gurobi, Mosek, GAMS, NTT Data, Litic, TU Berlin, FU Berlin, Polytechnique Montréal, RWTH Aachen, the Chinese Academy of Science, University of Southern California, University of Edinburgh, Sabancı Üniversitesi, Escuela Politécnica Nacional Quito, TU Darmstadt, University of Exeter, and many more

- This time > 1,000 registrations and fully virtual

Organized through and in collaboration with:

Berlin Mathematics Research Center
MATH+

Berlin Mathematical School
BMS

TU berlin

MODAL
Mathematical Optimization and Data Analysis Laboratories

CO@Work 2015 @ ZIB

2

The best location you never visited

Berlin: one of Germany's hot spots when it comes to mathematics, optimization, AI, etc

- Mathematics Excellence Cluster Math+ and Berlin Mathematical School (BMS)
- Berlin Institute for the Foundations of Learning and Data (BIFOLD)
- Berlin heavily invests into Artificial Intelligence, Machine Learning, and generally Math
- Very vibrant startup and innovation scene

Zuse Institute Berlin (ZIB)

- Interdisciplinary research institute at intersection of applied mathematics and computer science. Focus: "Interactive Computational Thinking"
- Three divisions: Math for Life and Material Sciences, Mathematical Algorithmic Intelligence, Super Computing

Research Campus MODAL

- Private-Public partnership to translate innovation through mathematics into industry
- Funding volume: > €25m for the next five years, more than 30 industrial partners
- 6 Labs: EnergyLab, MedLab, MobilityLab, NanoLab, HPCLab, SynLab

Berlin Mathematical School (BMS) – consider applying!

- Large Graduate School in and around mathematical topics
- Diverse cohort of PhD students and highly interdisciplinary and interactive setup

Thank you!

- All speakers, exercise session organizers, and breakout session organizers

- Our technical team that made CO@Work possible at this scale, in particular:
  Franziska Schlösser, **Gioni Mexi**, **Christian Salzmann-Jäckel**, **Philipp Wellner**, and **Arne Schröder**

- **Thorsten Koch** who has been leading the CO@Work effort in the past and has also been instrumental this time

- **Timo Berthold** who is the main organizer for this year's CO@Work

- And our Sponsors: