

Conference

Dynamical Systems and Semi-Algebraic Geometry: Interactions with Optimization and Deep Learning

Da Lat University, July 17 - 21, 2023

$$\text{dist}(x, Z)^\alpha \leq C|f(x)|, |f(x) - f(p)| \leq C|\nabla f(x)|$$

$$\min_{x \in S} f(x)$$

How is AI/Deep Learning related to mathematical fields: Dynamical systems, semialgebraic geometry and Optimization? And to the brain? Our conference aims to explain some of these. The conference is a mixture of physical and online means.

Speakers

- Aris Daniilidis (TU Wien, Austria)
- Andre Longtin (University of Ottawa, Canada)
- Camille Castera (University of Tübingen, Germany)
- Do Sang Kim (Pukyong National University, Busan, Republic of Korea)
- Gue Myung Lee (Pukyong National University, Busan, Republic of Korea)
- James Whittington (Stanford University USA and University of Oxford UK)
- Jinqiao Duan (Illinois Institute of Technology, USA)
- Jonathan Hauenstein (University of Notre Dame, USA)
- Martin Hornkjøl (University of Oslo, Norway)
- Minh Dao (RMIT University, Australia)
- Minh-Son Dao (NICT, Japan)
- Qianxiao Li (National University of Singapore)
- Quoc Tran-Dinh (The University of North Carolina at Chapel Hill, USA)
- Ta Le Loi (Da Lat University, Vietnam)
- Thai Son Doan (Institute of Mathematics, Ha Noi, Vietnam),
- Ting Gao (Huazhong University of Science and Technology, China)
- Volkan Cevher (EPFL, Switzerland)
- Vu Dinh (University of Delaware, USA)
- Vuong Phan (University of Southampton, UK)
- Xiao Wang (Shanghai University of Finance and Economics, China)

Lecture series by

- Aris Daniilidis (TU Wien, Austria)
- Minh-Son Dao (NICT, Japan)
- Jinqiao Duan (Shanghai University of Finance and Economics, China)
- Qianxiao Li (National University of Singapore)
- Ta Le Loi (Da Lat University, Vietnam)

Organisers

- Tuan Hiep Dang (Da Lat University, Vietnam)
- Binh Nguyen (VNU Ho Chi Minh city, Vietnam)
- Tien Son Pham (Da Lat University, Vietnam)
- Tuyen Trung Truong (University of Oslo, Norway)

Local organisers

- Tuan Hiep Dang (Da Lat University, Vietnam)
- Duc Tai Trinh (Da Lat University, Vietnam)

Sponsors

- Research Council of Norway
- VinIF (Vietnam)
- Da Lat University (Vietnam)

Registration

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