SDSC

Collaborative Projects Information Day

Save The Date
May 21st, 2021 @ 13:00

Join our Webinar via Zoom link
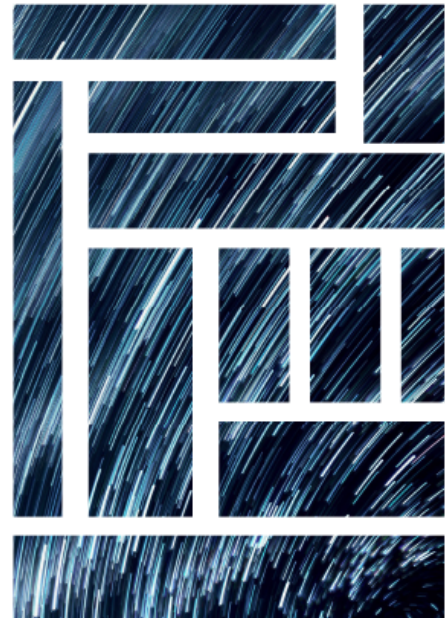
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https://ethz.zoom.us/j/66974678619?pwd=MEZUY2w2NkRnTXdnUkhwVlU5eGhkZz09

13:00 – 13:10   Introduction and Welcome – Dr. Olivier Verscheure (SDSC Executive Director), Prof. Andreas Krause and Prof. Edouard Bugnion (SDSC Academic Supervisors)

13:10 – 13:35   Using machine learning for biomarker discovery in human iPSC neuronal networks (Deep-Ephys) by Dr. Manuel Schröter

13:35 – 14:00   «Wait, how did I/you/they do that again?» Tracking data science provenance and workflows with Renku by Dr. Rok Roskar

14:00 - 14:30   **Lightning talks from PI's of SDSC-funded projects**

Exploring the Moving Arctic Aerosol baseline for improved model predictions by Prof. Julia Schmale

Self-guided Machine Learning Algorithms for Real-Time Assimilation, Interpolation and Rendering of Flow Data by Prof. Thomas Roesgen

Upgrading Toxicological Testing through Machine Learning by Dr. Marco Baity-Jesi and Dr. Kristin Schirmer

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Deep statistical learning-based image analysis for measurement of
socioeconomic development in Sub-Saharan Africa
by Dr. Kenneth Harttgen and Prof. Isabel Günther

Data driven fast optimization of resonant metamaterial structures
by Dr. Bart Van Damme

Development of geometric deep learning approaches for protein prediction
and design by Prof. Bruno Correia and Prof. Pierre Vandergheynst

Aurora: from Air pollUtion souRces tO mortality by Dr. Imad El Haddad

AI-augmented architectural design
by Prof. Matthias Kohler and Prof. Fabio M. Gramazio

ML4FCC Machine Learning for the Future Circular Collider design
by Prof. Mike Seidel and Dr. Tatiana Pieloni

Deep Cloud – A data-driven cloud parameterization for next generation
high-resolution weather and climate models by Prof. Sebastian Schemm

Extracting activity from large 4D whole-brain image data sets
by Prof. Sahand Rahi

Machine learning for Swiss (CH) river flow estimation by Dr. Lukas
Gudmundsson, Prof. Sonia I. Seneviratne and Dr. Massimiliano Zappa

14:30 – 15:00	SDSC announcements & open discussion:
	5th Call for Collaborative Projects (to be published at the end of May)