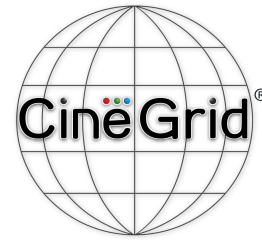




CHASE-CI Workshop & CineGrid Spotlight: AI PROGRAM



Co-sponsored by Pacific Research Platform (PRP) and CineGrid.org
Hosted by Calit2's Qualcomm Institute at UC San Diego
Location: QI auditorium, 1st Floor, Atkinson Hall, UCSD, La Jolla, California
Event Dates: May 14-15, 2018

CHASE-CI Workshop Monday, May 14, 2018

8:00-9:00	Registration and coffee at Atkinson Hall, UCSD campus
9:00-9:45	Welcome, CHASE-CI: A Distributed Big Data Machine Learning Platform Larry Smarr and Ken Kreutz-Delgado, UCSD
9:45-10:30	Comcast's Implementation and Scaling of Kubernetes: David Arbuckle, Comcast
10:30-11:30	PRP's Use of Kubernetes to Manage FIONAs and Ceph in Detail: John Graham, UCSD
11:30-12:00	CHASE-CI GPU-centric Use of Kubernetes, in Detail: Dmitry Mishin, SDSC
12:00-14:00	Lunch Break
12:00-14:00	Optional Hands-on Deep Dive into Containerization: Registration closed CHASE-CI members, <i>Location: VROOM</i> <i>(Note: Lab participants are strongly urged to bring their code to containerize, or show interest in working with sample code in our Jupyter notebook)</i>
14:00-17:15	CHASE-CI Member Research Presentations
14:00-14:20	FIONA8s & Kubernetes for Thousands of Students in Instructional Labs: Adam Tilghman, UCSD
14:20-14:40	Deep Learning Astronomical Survey Data: Shaw Dong, UCSC
14:40-15:00	Land Cover Maps from Satellite Imagery on CHASE-CI: Mai Nguyen, SDSC; Jessica Block, UCSD/Calit2; Daniel Crawl, SDSC; Ilkay Altintas, SDSC/UCSD
15:00-15:15	An Open Source Library for Large Scale Biologically Detailed Spiking Neural Network Simulation: Jeffrey Krichmar, UCI
15:15-15:30	Hyperparameters - The Bane of Current (Deep) Machine Learning: Robert L. Logan IV and Padhraic Smyth, UCI
15:30-15:45	FIONA8 Kubernetes Modifications for Computer Graphics and Vision: Alexandr Kuznetsov and Ravi Ramamoorthi, UCSD
15:45-16:00	Interpretable Deep Learning Models for Genomics: Anna Shcherbina and Anshul Kundaje, Stanford University
16:00-16:15	Short Break
16:15-16:30	GPU-Enabled Kubernetes for VR/Visualization and Point Clouds: Vid Petrovic, UCSD Calit2
16:30-16:45	Using Multicore Computing for Model-Free Point Prediction and Interval Estimation on Locally Stationary Time Series: Srinjoy Das and Dimitris Politis, UCSD
16:45-17:00	Embedded Learning on Neuromorphic Systems - Towards a Unified Computing Network Emre Neftci, UCI
17:00-17:15	The Explainable AI Project's Experience Running on CHASE-CI GPUs: Jürgen Schulze, UCSD
17:15-19:00	Wine and Cheese Reception/Demos Wine & Cheese reception for registered participants, featuring: Jürgen Schulze, Falko Kuester, Tom DeFanti, Joel Polizzi, Eric Lo, Vid Petrovic and Chris McFarland, leading demonstrations in the SunCAVE, DroneLab and VROOM



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CineGrid Spotlight: AI TUESDAY, MAY 15, 2018

8:00-9:00	Registration and coffee/tea at Atkinson Hall, UCSD campus
9:00-9:10	Introduction and Overview: Louise Ledeen, CineGrid.org - Moderator
9:10-9:40	Welcome: The Synergy between CHASE-CI and CineGrid Larry Smarr, Director, Calit2-UCSD/UI
9:40-10:00	Accelerating the VFX Pipeline Through Predictive Forecasting Jean Bolot, Vice President, Research and Innovation, Technicolor AI Lab
10:00-10:20	Cloud-based AI & Cognitive Analytics in Sports Broadcasting Jerry Gutierrez, Global HPC/AI Solution Leader, IBM Cloud
10:20-10:40	AI and Machine Perception at Google Research Tomáš Ižo, Engineering Director, Machine Perception Group, Google Research
10:40-11:00	Machine Learning for Efficient, Just in Time Content Distribution Michelle Munson, CEO/Co-Founder, Eluvio
11:00-11:15	Break
11:15-11:45	CineGrid Spotlight Presenters: Q&A Session
11:45-12:45	Panel: The Confluence of AI/ML Research in the Sciences & Media and Entertainment Moderator: Jeffrey Weekley - Director of Cyberinfrastructure & Research Computing, UC Merced Panelists: CineGrid Spotlight presenters and: Falko Kuester, Calit2 Professor of Visualization & Virtual Reality, UCSD Ravi Ramamoorthi, Ronald L. Graham Professor of Computer Science and Director, Center for Visual Computing, UC San Diego
12:45-13:00	Closing Comments: Tom DeFanti, UCSD
13:00	Adjourn
13:00-14:00	Box Lunch for registered participants (optional)