# SAN DIEGO SUPERCOMPUTER CENTER
## UNIVERSITY OF CALIFORNIA SAN DIEGO

# A**I**NNOVATION
# **I**NSIGHT
# **I**MPACT

## FOR A **BETTER WORLD.**

# SC23
### Denver, CO | i am hpc.

SDSC Booth #1319 | Colorado Convention Center

## Special Thanks to Our SC23 Partners!

## MONDAY, NOVEMBER 13

**9:05am**
Rooms
704-706
**FAIRIST OF THEM ALL: MEETING RESEARCHERS WHERE THEY ARE WITH JUST-IN-TIME, FAIR IMPLEMENTATION ADVICE**
Christine Kirkpatrick, SDSC

**1:30pm**
Room 406
**TUTORIAL: SCIENTIFIC COMPUTING WITH KUBERNETES**
Igor Sfiligoi, Mahidhar Tatineni, Dmitry Mishin, SDSC

## TUESDAY, NOVEMBER 14

### IMPACT — Morning Session

**10:30am**
**WELCOME**
Frank Würthwein, SDSC

**10:30am**
**WIFIRE: AI FOR ALL HAZARDS RESPONSE AND MITIGATION**
Ilkay Altıntaş, SDSC

**11:00am**
**WIFIRE: FIGHTING FIRES WITH DATA**
Rawaf al Rawaf, SDSC

**11:30am**
**SUPERCOMPUTING: A BOOST FOR WESTERN US WATER SUSTAINABILITY**
Patrick Mulrooney, UC San Diego

### INNOVATION — Afternoon Session

**2:00pm**
**CLOUDBANK PANEL: RESEARCHER SUCCESS STORIES IN THE PUBLIC CLOUD**
Shawn Strande, SDSC; Rick Friedman, AWS; Thomas Leung, GCP; Ahmed Taha, Azure; Robert Loredo, IBM; Santosh Bhatt, Oracle

**2:00pm**
SCinet
Theater
**PANEL: TESTBEDS & SCINET NRP, FABRIC, SLICES-RI AND QUANTUM TESTBED**
Frank Würthwein, SDSC; and Panel

**3:00pm**
**SCIENCE ENABLED BY SDSC'S EXPANSE/PATH SUPERCOMPUTER**
Bob Sinkovits, SDSC; John Gubernat, Dell

**3:30pm**
**THE SDSC VOYAGER MACHINE: A PLATFORM FOR ENABLING AI IN SCIENCE AND ENGINEERING**
Mahidhar Tatineni, SDSC; Max Chung, Supermicro; Milind Pandit, Habana

**4:00pm**
Craft beer
**MEET & GREET**

**4:25pm**
SCinet
Theater
**THE ESNET FRAMEWORK: SHOWCASING P4 APPLICATIONS ON ALVEO CARDS**
Mohammad Firas Sada, IIT

**4:35pm**
SCinet
Theater
**TOWARDS ACCOUNTABLE NETWORK BANDWIDTH UTILIZATION VIA SDN**
Aashay Arora, UC San Diego

**5:15pm**
Rooms
501-502
**BOF: MACHINE LEARNING FROM THE DATA'S PERSPECTIVE: DATA-CENTRIC AI, AI READINESS AND AI REPRODUCIBILITY**
Christine Kirkpatrick, SDSC

## WEDNESDAY, NOVEMBER 15

**10:30am**
DDN #1335
**RESEARCH COMPUTING AT UCSD**
Subha Sivagnanam, SDSC

### INSIGHT — Morning Session

**10:30am**
**FUSION**
Bill Tang, Princeton/PPPL

**11:00am**
**PANEL: AI AND FUSION**
Frank Würthwein, SDSC (moderator); Bill Tang, Princeton/PPPL; Tom Gibbs, NVIDIA

**11:30am**
**DIGITAL TWIN FOR THE TOKAMAK**
Tom Gibbs, NVIDIA

**12:15pm**
Rooms
401-402
**BOF: TOWARDS A NATIONAL AI RESEARCH RESOURCE FOR STRENGTHENING & DEMOCRATIZING AI R&D**
Ilkay Altıntaş, SDSC

**12:15pm**
Rooms
704-706
**BOF: PROVIDING A UNIFIED USER INTERFACE AND EXPERIENCE FOR GEOGRAPHICALLY DISPERSED COMPUTING RESOURCE**
Frank Würthwein, SDSC

**1:00pm**
Intel booth
#617
**AI IN SCIENTIFIC DISCOVERY ON VOYAGER SUPERCOMPUTER**
Mahidhar Tatineni, SDSC

**2:00pm**
Intel booth
#617
**POWERING AMBER MOLECULAR DYNAMICS SIMULATIONS w/ ONEAPI**
Andreas Goetz, SDSC

### INSIGHT — Afternoon Session

**2:00pm**
**THE VALUE OF RESEARCH SCIENCE GATEWAYS AND COMPUTING CYBERINFRASTRUCTURE**
Claire Stirm, SDSC; Susan Tussy, Globus; Sandra Gesing, SGX3; John Strawn, OH-TECH; Rob Quick, CIRC; Sean Cunningham, TACC

**2:30pm**
**GO FAIR US: FAIR WORKFLOWS FOR HPC**
Christine Kirkpatrick, SDSC; Sean Wilkinson, ORNL

**3:00pm**
**ONE SCIENCE PLACE**
Amit Chourasia, SDSC

**3:30pm**
**PROTOTYPE NATIONAL RESEARCH PLATFORM: OPEN INFRASTRUCTURE FOR AN OPEN SOCIETY**
Frank Würthwein, Ilkay Altıntaş, SDSC; James Deaton, Internet2; Manish Parashar, OSTP; Jeremy Evert, SWOSU

**4:00pm**
Craft beer
**MEET & GREET**

## THURSDAY, NOVEMBER 16

**11:00am**
Dell booth
#625
**SCIENCE ENABLED BY EXPANSE, SDSC'S DELL SUPERCOMPUTER**
Bob Sinkovits, SDSC

**12:15pm**
Rooms
601-603
**BOF: A NATIONAL SCIENCE DATA FABRIC TO DEMOCRATIZE DATA ACCESS AND REUSABILITY**
Christine Kirkpatrick, SDSC

**12:15pm**
Rooms
405-407
**BOF: ACCESS RESOURCE PROVIDER FORUM**
Bob Sinkovits, SDSC

**1:30pm**
Rooms
205-207
**PANEL: UNLEASHING THE POWER WITHIN DATA DEMOCRATIZATION: NEEDS, CHALLENGES, & OPPORTUNITIES**
Christine Kirkpatrick, Frank Würthwein, SDSC