



All times are US Eastern Time (UTC – 5)

Wednesday March 6, 2024

- 10:00am **Opening**
NDNComm 2024 co-chairs: Lotfi Benmohamed (NIST)
Marc Mosko (SRI)
Davide Pesavento (NIST)
- 10:10am **Session 1: Forwarding and Applications**
Chair: Marc Mosko (SRI)
- Low-Earth-Orbit Satellite Constellations and Named Data Networking, Beichuan Zhang (The University of Arizona)
 - NDN for Data-Intensive Science Experiments: Progress and Future Directions, Edmund Yeh (Northeastern University)
 - NDN based CNI for Kubernetes: Unlocking Secure, Smart, and On-Demand Communication, Tushar Sood (Tata Communications), Mohit Tahiliani (National Institute of Technology Karnataka, Surathkal)
- 11:10am **Session 2: Emerging Applications**
Chair: Christos Papadopoulos (University of Memphis)
- Data-oriented, Decentralized, Daring: Opportunities and Research Challenges for an Information-Centric Web, Dirk Kutscher (HKUST)
 - Naming in Named Data Networking, Lixia Zhang (UCLA)
 - Naming a Microverse of One's Own, Jeff Burke (UCLA)
- 12:00pm Break
- 1:00pm **Session 3: Internet of Things**
Chair: Beichuan Zhang (University of Arizona)
- Analysing NDN and MQTT performance for Industrial IoT Scenarios, Parth Anand (fortiss)
 - Deadline-Aware Named Data Networking for Time-Sensitive IoT Applications, Afia Anjum (University of Texas at Arlington)
 - Developing a Mobile Application for IoT using Named Data Networking (IoT-NDN) with FIWARE, Mohamed Hail (University of Lübeck)
- 2:00pm Break
- 2:20pm **Session 4: Testbed and Applications**
Chair: Susmit Shannigrahi (Tennessee Tech)

- Updates on the NDN Testbed, Varun Patil (UCLA)
- Workspace: A Data-Oriented, Decentralized Collaboration Web App, Xinyu Ma (UCLA)
- Distributed User-Centric mHealth Data-Sharing Application Running on NDN Testbed, Adam Thieme (The University of Memphis)

3:20pm

Break

3:40pm

Panel 1: Building an Open-Source Ecosystem around NDN

Chair: Davide Pesavento (NIST)

Panelists: Randy King (Operant Networks)

Songwu Lu (UCLA)

Christos Papadopoulos (University of Memphis)

Constantin Serban (Peraton Labs)

5:00pm

Day 1 Closing

Thursday March 7, 2024

10:00am

Session 5: Security and Trust Management

Chair: Alex Afanasyev (Florida International University)

- A New API in Support of NDN Trust Schema, Yekta Kocaoğullar (UCLA)
- VerSec Schema Visualization, Varun Patil (UCLA)
- CLedger: A Secure Distributed Certificate Ledger via Named Data, Tianyuan Yu (UCLA)

10:50am

Panel 2: From Local-First to Fully Decentralized Applications

Chair: Lixia Zhang (UCLA)

Panelists: Zhongren Cao (C-3 Comm Systems)

Rahul Gupta (Independent Researcher)

Xinyu Ma (UCLA)

Wilfred Pinfold (OpenCommons)

Tianyuan Yu (UCLA)

12:10pm

Break

1:10pm

Hackathon project pitches

1:50pm

Panel 3: Present and Future of Network Security Framework

Chair: Alex Afanasyev (Florida International University)

Panelists: Marc Mosko (SRI)

Davide Pesavento (NIST)

Jeff White (Dell Technologies)

3:10pm

Break

3:30pm

Session 6: Infrastructure and Services

Chair: Saurab Dulal (Walmart)

- Hydra: An NDN based federated storage system for multi-organizational science data, Susmit Shannigrahi (Tennessee Tech)
- NDN for AI: Starting From A Data-Centric Collective Communication, Teng Liang (Peng Cheng Laboratory)
- Traffic Measurement on the Global NDN Testbed, Davide Pesavento (NIST), Junxiao Shi (NIST)
- NDN Service Framework (NDNSF), Tianxing Ma (University of Memphis)
- Edge Challenges with Data Management and Networking, Jeff White (Dell Technologies)

5:00pm

Closing