

All times are US Eastern Time (UTC – 5)

Thursday March 2, 2023

10:00am	Opening Lotfi Benmohamed (NIST)
10:10am	Panel 1: Lessons Learned
	Chair: Ken Calvert (University of Kentucky)
	Panelists: Alex Afanasyev (Florida International University)
	Jeff Burke (UCLA REMAP)
	Luca Muscariello (Cisco)
	Lan Wang (University of Memphis)
	Beichuan Zhang (University of Arizona)
	Lixia Zhang (UCLA)
11:40am	Session 1: Vehicular and Public Safety
	Chair: Davide Pesavento (NIST)
	• Resilient Edge Ecosystem for Collaborative and Trustworthy Disaster Response (REsCue):
	An Information-Centric Approach, Abde Mtibaa (UMSL)
	 In-vehicle networking with NDN, Zach Threet (Tennessee Tech)
	Secure Truck-Tractor to Trailer Communications based on NDN, Ahmed Elhadeedy
	(Colorado State University)
12:40pm	Break
1:30pm	Session 2: Security
	Chair: Christos Papadopoulos (University of Memphis)
	• To know the road ahead: A Forward-Looking Analysis of Lessons to Learn from IP DDoS, Eric Osterweil (George Mason University)
	Schema-Based Automation of Name-Based Access Control, Alex Afanasyev (Florida
	International University)
	• A Security Bootstrapping Package for Hydra, Tianyuan Yu (UCLA)
	 A Review of Defined Trust Transport (DeftT), Turan Vural (UCLA)
	Identity Authentication Security Strategies using TPM private key storage in an NDN
	Publish/Subscribe Industrial Energy Control System, Randy King (Operant Networks)
3:10pm	Break

3:40pm	Session 3: Applications
	Chair: Susmit Shannigrahi (Tennessee Tech)
	• A Secure mHealth Infrastructure for Real-Time Data transfer with Fine-grained Access
	Control, Saurab Dulal (The University of Memphis)
	A Dataset of NDN Traffic Traces for the Research Community, Davide Pesavento (NIST)
	 NDN Sync API Overview, Varun Patil (UCLA)
	 Steering New Applications Away from Centralized Realization, Lixia Zhang (UCLA)
5:00pm	Day 1 Closing

Friday March 3, 2023

10:00am	Session 4: Forwarding and Applications
	Chair: Lotfi Benmohamed (NIST)
	• iStack: An in-Kernel Networking Stack for Named Data Networking, Tian Song (Beijing
	Institute of Technology)
	Bringing Named Data Networking to Internet Livestreaming, Teng Liang (Peng Cheng
	Laboratory)
	Towards First Data Centric Medium Access Control Multicast Rate Control, Mohammed
	Elbadry (Stony Brook University)
11:00am	Panel 2: Named Data Metaverse
	Chair: Dirk Kutscher (Hong Kong University of Science and Technology)
	Panelists: Jeff Burke (UCLA REMAP)
	Todd Hodes (Eluvio)
	Paulo Mendes (Airbus)
	Michelle Munson (Eluvio)
	12:30pm Break
1:30pm	Panel 3: Time for Standardization?
	Chair: Christos Papadopoulos (University of Memphis)
	Panelists: Randy King (Operant Networks)
	Suzanne Lightman (NIST)
	Luca Muscariello (Cisco)
	Kathyayani Srikanteswara (Intel)
3:00pm	Break
3:15pm	Session 5: Applications and Services
	Chair: Tamer Refaei (MITRE)
	mGuard: a Secure mHealth Data Sharing Infrastructure over NDN, Suravi Regmi (The
	University of Memphis)
	 NDN Opportunities in 5G/6G Core Networks, Junxiao Shi (NIST)
	 N-DISE: NDN-based Data Distribution for Large-Scale Data-Intensive Science
	Experiments, Edmund Yeh (Northeastern University)
	 Edge Information Management - Demand is Only Growing, Jeff White (Dell
	Technologies)

• SPAN-AI federated UCDN PoC - the first commercial ICN network at scale, Rhett Sampson (GT Systems), Jaime Llorca (GT Systems and NYU)

4:50pm Closing

Panel Abstracts:

• Panel 1: Lessons Learned

The "10 years of NDN - Lessons Learned" panel at the 2020 NDNComm emphasized the utility of the basic building block (semantically named, secured data) and the importance of driving the architecture through application building and understanding application needs. In this panel, members will present insights about specific aspects of the NDN architecture, including for example namespace structure and API features.

• Panel 2: Named Data Metaverse

This panel will discuss opportunities and challenges for building Metaverse systems with a Named Data Networking approach. Specific discussion questions include: What are architectural, security-related, and performance-related issues in Metaverse systems today? What communication patterns could be supported by NDN platforms? How can the data-oriented model and decentralized trust establishment help in developing better Metaverse systems and at what layer would NDN technologies help? What are gaps, challenges and research opportunities for NDN evolution to address Metaverse system requirements?

• Panel 3: Time for Standardization?

After 13 years, Named Data networking (NDN), is the only NSF Future Internet Architectures (FIA) project still active. While NDN has substantial research and development under its belt, with running code, hundreds of mostly academic research papers, a global testbed, and a sizable community, it has not yet made an equally strong impact in the commercial space.

Industry adoption typically requires some form of standardization or agreed upon specification. This panel will explore whether such activities are needed to transition NDN into a commercial success. More specifically, the panel will address two questions: (a) is it time to pursue some form of NDN standardization? and (b), if the answer is yes, what is the appropriate path for NDN?

Abstracts for Presentations (compiled in separate document)