

Call for Papers

47th Annual IEEE Conference on Local Computer Networks

Hybrid: In-Person and Virtual Conference

(Hosted in Edmonton, Canada)

September 26-29, 2022

<https://www.ieeelcn.org>



The IEEE LCN conference is the premier conference on the leading edge of theoretical and practical aspects of computer networking. LCN is a highly interactive conference that enables an effective interchange of results and ideas among researchers, users, and product developers. For the past 46 years, major developments from AI-enabled high-speed networking to application-focused IoT networks have been reported at this conference. Topics of interest include, but are not limited to:

- Personal and wearable networks
- Wireless ad hoc & sensor networks
- Information-centric networking
- Embedded networks
- Opportunistic networking
- Delay-tolerant networks
- Cognitive radio networks
- Vehicular networks
- Smart Grid communications
- Underwater sensor networks
- Cyber-physical systems
- Social networks
- Mobile and ubiquitous networking
- Green networking
- Overlay and peer-to-peer networks
- Local-area and metropolitan-area networks
- Storage-area networks
- Routing and transport protocols
- Big Data Networking
- Cloud computing and networking
- Software Defined Networking and Network Function Virtualization
- Internet of Things
- Link technologies
- Adaptive networking applications
- Authentication, authorization, accounting
- Security and privacy
- Cross-layer optimization
- Mobility and Location-dependent services
- Multimedia and real-time communication
- Machine-to-machine communications for smart environments
- Smart Cities
- Network traffic characterization and measurements
- Network management, reliability and QoS
- Performance evaluation of networks
- Test beds for network experiments
- Network coding
- Optical and high-speed access networks
- E-Health networking
- AI-enabled networking

In addition to the main conference track, the LCN Symposium provides an opportunity to present early work in-progress that shows exciting promise. The aim of the Symposium is to enable timely discussion of novel ideas and challenging future directions on emerging topics in networking.

Submissions in areas such as, but not limited to, the following are encouraged:

- **Edge/Fog Computing**
- **AI for Networking**
- **Smart Cities**

Authors are invited to submit papers describing original, previously unpublished work, not currently under review by another conference, workshop, or a journal. Full Regular papers (maximum 8 pages, 10-point font in IEEE format) should present novel perspectives within the general scope of the conference. Short papers (up to 4 pages) are an opportunity to present preliminary or interim results on hot topics in a poster session. Symposium papers (maximum 6 pages) enable timely discussion of novel ideas and challenging future directions on emerging topics in networking. Both full and short papers are published in the proceedings and IEEE Xplore. All papers must include title, complete contact information for all authors, abstract, and keywords on the cover page. IEEE reserves the right to remove papers from IEEE Xplore that are not presented at the conference.

The IEEE LCN 2022 will also feature a demo session with the aim of providing demonstrations that validate important research issues and/or show innovative prototypes. More information can be found on the conference Web site.

Furthermore, the IEEE LCN 2022 will include a Doctoral track session in support of graduate student's research. The goal of the Doctoral Track is to engage graduate students, especially Ph.D. students, that work in the general area of networking to actively participate and contribute to the 47th IEEE LCN Conference. More information can be found on the conference Web site.

Paper submission: Papers must be registered on EDAS and submitted in PDF format. Detailed submission instructions are available at the conference website. Direct any questions to LCN Program Chairs:

Sharief Oteafy (SOTEAFY@depaul.edu) and Eyuphan Bulut (ebulut@vcu.edu)

or to the LCN Symposium Chair: Kanchana Thilakarathna (kanchana.thilakarathna@sydney.edu.au).

Important dates:

Paper registration: ~~April 1~~, April 24th, 2022

Paper submission: ~~April 8~~, April 24th, 2022

Notification: June 15, 2022

Final paper: July 15, 2022.

General Chair: Lyes Khoukhi, ENSICAEN, Normandie Univ., France

Program Chair: Sharief Oteafy, DePaul Univ, USA

Program Co-Chair: Eyuphan Bulut, Virginia Commonwealth Univ., USA,

Symposium Chair: Kanchana Thilakarathna, The Univ. of Sydney, Australia