



# Call for Papers

## 46<sup>th</sup> Annual IEEE Conference on Local Computer Networks

*Virtually Hosted in Edmonton, Canada*

*October 4-7, 2021*

*<https://www.ieeelcn.org>*

**Announcement:** Due to the current global COVID-19 situation, LCN 2021 will be held fully online. Rather than take place in Edmonton, Canada, it will instead take place virtually.

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 45 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

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
- Network Intelligence
- Blockchain Networks

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 eight pages, 10 pt font in IEEE format) should present novel perspectives within the general scope of the conference. *Short papers* (up to four pages) are an opportunity to present preliminary or interim results on hot topics in a poster session. *Symposium papers* (maximum six 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.

**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 Chair Lyes Khoukhi (Lyes.khoukhi@ensicaen.fr), LCN Program Co-Chair Sharief Oteafy (SOTEAFY@depaul.edu), or LCN Symposium Chair Florian Tschorsch (florian.tschorsch@tu-berlin.de).

#### Important dates:

Paper registration: May 31, 2021 **NEW**  
 Paper submission: May 31, 2021 **NEW**  
 Notification: June 22, 2021  
 Final paper: July 22, 2021

**General Chair:** Karl Andersson, Luleå Univ. of Techn., Sweden  
**Program Chair:** Lyes Khoukhi, ENSICAEN, Normandie Univ., France  
**Program Co-Chair:** Sharief Oteafy, DePaul Univ, USA  
**Symposium Chair:** Florian Tschorsch, TU Berlin, Germany