

CoNEXT 2020 Call for Papers

The CoNEXT 2020 conference seeks papers presenting significant and novel research results on emerging computer networks and its applications. We especially encourage submissions that present novel experimentation, creative use of networking technologies, and new insights made possible using analysis. We invite submissions on a wide range of networking topics. The list of topics includes (in alphabetical order):

- Big Data platforms with applications to network management, security, measurements
- Content distribution and caching, e.g., CDN, peer-to-peer, overlays
- Design, analysis, and evaluation of network architectures
- Experience and lessons learned by deploying large-scale networked systems
- Internet measurement and modeling
- Internet economics and policy
- Innovative uses of network data beyond communication
- Mobile and wireless Internet protocols and applications
- Networking aspects of datacenters and cloud computing
- Networking aspects of operating systems and virtualization architectures
- Network aspects of Web, Video, and Virtual Reality applications
- Network control and management, including SDN, NFV and network programmability
- Network, transport, and application-layer protocols
- Networking aspects of ubiquitous computing, including Internet-of-Things and Smart Cities
- Networking aspects of online social networks
- Reliability and availability of networks, protocols, and applications
- Reproducibility
- Routing and traffic engineering
- Security and privacy aspects of network applications and protocols
- Topics at the intersection of energy-efficient computing and networking

We are open to other contributions that stretch networking research outside of these topics, present new emerging computing trends, or potentially involve unfamiliar techniques. We ask authors to bear in mind that the main factor of interest of their work will be the implications of their results in networking. As such CoNEXT is, e.g., not looking for papers addressing only the physical layer. Potential authors who are unsure of the scope are encouraged to contact the PC chairs before submission.

Submission

CoNEXT welcomes submission of both long and short papers (2-column, 10pt ACM format). All the submissions should be double-blind and will be peer-reviewed. Per the anonymity guidelines, you must remove any author names.

Long papers are the more traditional form to present technical work and should be no more than 12 pages (up to two additional pages for appendices and unlimited pages for references). Short papers are the preferred vehicle for contributions whose novelty and impact show the same technical excellence, but whose description fits within 6 pages (one additional page for appendices and unlimited pages for references). Short papers will be reviewed with a more open mind towards the scope of evaluation or breadth of topics compared to long papers. Note that position papers, critiques of networking research, and ideas that are not yet fully complete or evaluated are a better fit for the HotNets workshop.

We welcome experience submissions that clearly articulate lessons learned, as well as submissions that refute prior published results.

One-shot major revision

Each paper may be accepted, rejected, or given the option of one-shot “major” revision.

The one-shot revision decision will be followed by a summary of the paper's merits and a list of minimum necessary changes that are required for the paper to be accepted at CoNEXT 2020. The authors will be given a deadline (about a month) to submit a version of their work addressing the issues. The paper will then be subject to the final decision of accept or reject, at which point, the paper will be reviewed to judge whether it addresses the requirements requested, to the extent possible, by the same reviewers as earlier. The reviewers will primarily judge the paper based on whether it has successfully addressed the requirements detailed in the document accompanied by the notification, but will factor in the independent merit of the revision. During this review period, the paper is still considered under review to CoNEXT and therefore cannot be submitted to other conferences unless the authors first withdraw it from consideration.

The one-shot revision option will be given to a select number of papers. Reviewers will be instructed to not offer a one-shot-revision option if they cannot determine that the paper sufficiently meets the bar after successfully addressing the required/proposed changes.

Papers accepted following the one-shot major revision will be included in the program and proceedings of CoNEXT 2020 just as the papers that are accepted without a major revision.

Authors given a one-shot-revision decision will be sent detailed instructions on how to proceed with the major revision. These instructions will include the list of minimum necessary changes required by the PC for the paper to be accepted. Authors receiving a one-shot-revision decision must either respond with a plan for the revision or an intent to withdraw the paper within the deadline (a week after the instructions are sent).

By the revision deadline, the authors must submit the followings:

- A revised version of the paper
- A cover letter explaining the differences between the original submission and the revised version

- An additional version of the paper in which revision changes since the first submission are clearly marked

Early Reject Notification

The review process will consist of multiple rounds of scrutiny. In order to allow authors to submit an improved version of work to other venues, authors of submissions for which there is a consensus on rejection will be notified earlier

Research Reproducibility

We value submissions that are accompanied by clearly defined artifacts not previously available, including traces, original data, source code, or tools developed as part of the submitted work.

CoNEXT 2020 reproducibility committee is responsible to award accepted papers ACM reproducibility badges (for details visit:

<https://www.acm.org/publications/policies/artifact-review-badging>). For accepted papers to be eligible for ACM badging, the authors (1) must opt-in for ACM badging before the paper submission deadline, and (2) send one page to the reproducibility committee that clearly describes the artifacts and provide pointers to the code and other artifacts, within a week after the notification of acceptance. Artifact pointers and description must be included at camera ready.

Ethical concerns

CoNEXT accords great importance to research ethics. Specifically, authors must attest that their work complies with all applicable ethical standards of their home institution(s), including, but not limited to privacy policies and policies on experiments involving humans. Submitting research for approval by one's institution's ethics review body is necessary, but not sufficient. The PC will have its own discussion of the ethics of that work whenever it has concerns about the ethics of a submission. Authors agree to be available at any time during the review process to rapidly respond to queries from the PC chairs regarding ethical standards.

Paper Submission

Important Dates

Abstract Registration: Wednesday, June 17, 2020 (11:59PM Central European Time)

Paper Submission: Wednesday, June 24, 2020 (11:59PM Central European Time)

(hard deadline, no extensions will be given)

Notification of Acceptance: September 14, 2020

Major revision plan due (for papers given the major revision option): September 24, 2020

Major revision due (for papers given the major revision option): October 24, 2020

Final decision for major revisions (for papers given the major revision option): Oct 3, 2020

Camera Ready: Oct 26, 2020 (Oct 31 for papers accepted following the major revision)

Official publication date: December 1, 2020

Conference: December 1-4 (Barcelona, Spain)

AUTHORS TAKE NOTE: The official publication date is the date the proceedings are made available in the ACM Digital Library. This date may be up to two weeks prior to the first day of your conference. The official publication date affects the deadline for any patent filings related to published work.

Contact us

If you have any questions please email the TPC co-chairs: Anja Feldmann (MPI), Dongsu Han (KAIST).