

58th Allerton Conference

Scheduled for Sept 28- Sept 30, 2022

ON COMMUNICATION, CONTROL, & COMPUTING

Call for Papers: Due July 12, 2022

Manuscripts can be submitted from June 10-July 12, 2022 with the submission deadline of July 12th being firm. Please follow the instructions at allerton.csl.illinois.edu.

CONFERENCE CO-CHAIRS | ALEJANDRO DOMINGUEZ-GARCIA AND MAX RAGINSKY

INFORMATION FOR AUTHORS | Regular papers suitable for presentation in 20 minutes are solicited. Regular papers will be published in full (subject to a maximum length of eight 8.5" x 11" pages, in two column format) in the Conference Proceedings. Only papers that are actually presented at the conference and uploaded as final manuscripts can be included in the proceedings, which will be available after the conference on IEEE Xplore. For reviewing purposes of papers, a title and a five to ten page extended abstract, including references and sufficient detail to permit careful reviewing, are required.

IMPORTANT DATES | 2022

JULY 12 — Submission Deadline

AUGUST 8 — Author Notification Authors will be notified of acceptance via email by August 8, 2022, at which time they will also be sent detailed instructions for the preparation of their papers for the Conference Proceedings

AFTER AUGUST 9 — Registration Opens

SEPTEMBER 28 - SEPTEMBER 30 — Conference Dates

September 27 — Opening Tutorial Lectures: 8am-5:30 pm CSL BO2

September 28- September 30 — Conference Sessions at the University of Illinois Allerton Park & Retreat Center. The Allerton House is located 26 miles southwest of the Urbana-Champaign campus of the University of Illinois in a wooded area on the Sangamon River. It is part of the 1,500 acre Robert Allerton Park, a complex of natural and man-made beauty designated as a National natural landmark. Allerton Park has 20 miles of well-maintained trails and a living gallery of formal gardens, studded with sculptures collected from around the world.

Plenary Lecture: September 29 Dr. Todd Coleman Associate Professor Department of Bioengineering, Stanford University

OCTOBER 2 — Final Paper Deadline Final versions of papers that are presented at the conference must be submitted electronically in order to appear in the Conference Proceedings and IEEE Xplore.

PAPERS PRESENTING ORIGINAL RESEARCH ARE SOLICITED IN THE AREAS OF:

- Biological Information Systems
- Coding Techniques and Applications
- Coding Theory
- Data Storage
- Information Theory
- Multiuser Detection and Estimation
- Network Information Theory
- Sensor Networks in Communications
- Wireless Communication Systems
- Intrusion/Anomaly Detection and Diagnosis
- Network Coding
- Network Games and Algorithms
- Performance Analysis
- Pricing and Congestion Control
- Reliability, Security and Trust
- Decentralized Control Systems
- Robust and Nonlinear Control
- Adaptive Control and Automation
- Robotics
- Distributed and Large-Scale Systems
- Complex Networked Systems
- Optimization
- Dynamic Games
- Machine Learning and Learning Theory
- Signal Models and Representations
- Signal Acquisition, Coding, and Retrieval
- Detection and Estimation
- Learning and Inference
- Statistical Signal Processing
- Sensor Networks
- Data Analytics
- Power System Control and Optimization

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The Allerton Conference is co-sponsored by the **Coordinated Science Lab** and the **Department of Electrical and Computer Engineering**.

WEBSITE | allerton.csl.illinois.edu EMAIL | smccu4@illinois.edu