

SoutheastCon 2022

Mobile, Alabama



CALL FOR PAPERS

March 31 – April 03, 2022

SoutheastCon is the annual IEEE Region III conference that promotes all aspects of theory and applications of electrical and computer engineering. Sponsored by IEEE Region III, this event will attract researchers, industry professionals, and students from across the globe and especially from the southeastern U.S. The conference will feature Tutorial Sessions and Workshops along with the Technical Program. Submit your research paper or proposal for a tutorial or workshop at the conference website <http://www.ieeesoutheastcon.org>



CALL FOR TUTORIALS, WORKSHOPS & DEMONSTRATIONS

Proposals are solicited for tutorials, workshops and demonstrations (TWD) for IEEE SoutheastCon 2022. While TWD proposals for any topic will be considered, the following topics are of particular interest:

- ◆ **Power**
- ◆ **Communications & Electromagnetics**
- ◆ **Computing Systems**
- ◆ **Signal Processing**
- ◆ **Microelectronics, Devices & Sensors**
- ◆ **Artificial Intelligence & Predictive Modeling**
- ◆ **Cybersecurity**
- ◆ **Software Engineering**
- ◆ **Miscellaneous**

Important Due Dates

Paper Submission:	November 01, 2021
TWD Proposal Submission:	November 01, 2021
Notification to Authors:	January 05, 2022
Registration Deadline:	January 21, 2022
Publication-ready Version:	March 05, 2022

TWD Proposal Submission Guidelines

Proposals should be no longer than two pages and should include:

- ◆ Abstract (limit 500 words)
- ◆ Outline of the TWD
- ◆ Proposed length of the TWD (1 hour, 2 hours, 4 hours or 8 hours or another duration)
- ◆ Résumé(s) of the instructor(s)
- ◆ Budget including fees to be requested from attendees and required by instructor(s)
- ◆ Any other pertinent information or clarification

Please send electronic copies (PDF only) of proposals for TWD to the Technical Program Chair:

Dr. Edmund Spencer
espencer@southalabama.edu



IEEE

Region III SoutheastCon 2022

Technical Paper Submission Information

IEEE SoutheastCon 2022 will distinguish regular papers from posters; a regular paper appears as a complete work in the proceedings and is presented in a technical session at the conference, whereas a poster is published as a two-page extended abstract and presented as a poster.

Paper Format and Template

All papers must be submitted in *final form* so that all revisions (if any) are minor.

IEEE SoutheastCon 2022 adopts IEEE standard conference proceedings format. All submissions should be written in English with a maximum length of **six** printed pages using the US letter format and following the IEEE conference template. Papers exceeding six pages will be subject to immediate rejection. Papers must be submitted as a single PDF file. Templates for Conference Proceedings in Microsoft Word or LaTeX formats are available at <https://www.ieee.org/conferences/publishing/templates.html>

All submitted papers will be checked for plagiarism in addition to being peer reviewed (with a target of three reviews per paper). Authors of submitted papers must be available to review other submissions. Only papers accepted and actually presented at IEEE SoutheastCon 2022 will be included in the final electronic proceedings and indexed as IEEE publications.

See the IEEE Web Pages on **Intellectual Property Rights, Plagiarism and Multiple Submissions** for further guidance:

http://www.ieee.org/publications_standards/publications/rights/index.html

http://www.ieee.org/publications_standards/publications/rights/plagiarism.html

http://www.ieee.org/web/publications/rights/Multi_Sub_Guidelines_Intro.html

To be published in the IEEE SoutheastCon 2022 Conference Proceedings and IEEE Xplore, at least one author of an accepted paper is required to register for the conference at the full or limited (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the Technical Program Committee Chair grants permission for a substitute presenter. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full or limited conference registration is valid for up to three papers.

Conference Registration

Register for **SoutheastCon 2022** at
<https://www.ieeesoutheastcon.org>



IEEE SoutheastCon 2022 invites prospective authors to submit their original technical work in any area of electrical and electronics engineering, science, and technology. Topic areas for the technical program include, but are not limited to, the following:

Power

Power Systems
Renewable Energy
Smart Grid and Microgrids
Energy Harvesting and Wireless Power Transfer
Electric Vehicles and Charging
Power Electronics
Machines
Magnetics

Communications and Electromagnetics

Communications and Networking
Optics and Optoelectronic Systems
Electromagnetics, Microwaves, and Radar Systems
Inter-and-intra-vehicle Communications
Other communications and electromagnetics topics

Computing Systems

Cyber-Physical Systems and Robotics
Systems Architecture (memory hierarchy, memory, storage, Network on Chip)
Smart, Autonomous and Embedded Systems
Cybersecurity and Information Assurance
High-Performance Computing (HPC) Systems
Future Novel Computing Platforms such as Quantum, Neuromorphic, and Bio-inspired Computing

Signal Processing

Audio and Acoustic Signal Processing
Remote Sensing and Radar Signal Processing
Image and Video Processing
Multichannel and Multidimensional Signal Processing
Compressed Sensing and Sampling
Information Theory and Applications

Microelectronics, Devices, and Sensors

VLSI Systems and Integrated Circuits
Analog/Mixed Signal Circuits and Systems
Novel Devices—Beyond CMOS, Nano and Hybrid Systems, Emerging Devices, Circuits
Sensors
Nanotechnology
Electronic Materials

Artificial Intelligence and Predictive Modeling

Computer Vision Applications
Artificial Intelligence in Biology, Medicine and other Technological Systems
Supervised, Unsupervised, and Reinforcement Learning
Pattern Recognition and Intelligence
Natural Language Processing and Speech Recognition
Recommendation Systems and Collaborative Filtering
Big Data and Data Analytics

Miscellaneous

Education
Biomedical Circuits and Systems
Consumer Electronics
Future Trends



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