

# Call for Papers:

## AI and the Transition to Sustainability

Welcome from Northwest Arkansas, the home of the 16th annual IEEE Green Technologies (GreenTech) Conference. The conference offers an excellent opportunity for presenting technical papers to a gathering of international experts in green technologies promoting secure and sustainable energy systems. The conference serves as a forum for engineers, researchers, and specialists from academia, research centers, and industry worldwide to discuss and present the latest developments and applications related to the challenges of transitioning to sustainable economic practices. Recent advancement in machine learning, pattern recognition and artificial intelligence have enabled the adoption of technologies that reduce the use of fossil fuels in many industries. Greentech 2024 seeks papers and poster presentations in areas related to renewable energy and sustainable industry technologies.

### 2024 IEEE GreenTech Call for Papers

Prospective authors are invited to submit original technical papers for presentation at the conference and publication in the conference proceedings. At least one author of each accepted papers must register at the full (regular) conference rate to be included in the program. Submitted papers should follow the IEEE format and may be up to 5 pages in length. Accepted papers presented by the author at the conference will be included in the GreenTech 2024 proceedings and submitted to the IEEEExplore® digital library.

### Important Dates for paper submissions

- Paper Submission: February 1<sup>st</sup>, 2024 to [EDAS](#)
- Author Decision Notification: February 23<sup>rd</sup>, 2024
- Final Revised Paper and Author Registration: March 8<sup>th</sup>, 2024

### 2024 IEEE GreenTech Call for Poster Abstracts

Students may submit a two-page extended abstract that will be presented at a poster session during GreenTech 2024. The extended abstract should be written in the standard IEEE two-column format. At least one author of each accepted papers must register for the conference at the regular student rate to be included in the program. A listing of the presented posters (title, authors, affiliations and a 400-word summary) will be included as part of the conference proceedings on IEEEExplore®.

### Important Dates for Posters

- Extended Abstract Submission: February 1<sup>st</sup>, 2024
- Extended Abstract Notification: February 19<sup>th</sup>, 2024
- Final Abstract Acceptance and Student Author Registration: March 4<sup>th</sup>, 2024

## 2024 IEEE GreenTech Topic Area Tracks

**The GreenTech Artificial Intelligence for Sustainability Track** invites authors to submit original papers and poster abstracts in areas related to artificial intelligence technologies and applications. Example topics include but are not limited to the following:

- Machine Learning & Deep Learning
- Intelligent and Knowledge Based Systems
- Computer Vision and Pattern Recognition
- Expert Systems
- Agents and Multi-agent Systems
- Natural Language Processing
- Virtual and Augmented Reality
- Intelligent Control and Automation
- Context-aware Pervasive Systems

**The GreenTech Power and Energy Track** invites authors to submit papers and poster abstracts in areas of electric power systems and energy conversion technologies. Example topics include but are not limited to the following:

- Application of Artificial Intelligence in Power Systems Design & Operation
- Transportation Electrification
- Integration of Renewable Energy Resources
- Power System Modelling and Stability Analysis
- Load and Generation Forecasting
- Electricity Markets and Regulations
- Wide Bandgap Semiconductors and Power Electronics
- Energy Storage Technologies and Systems

**The GreenTech Cybersecurity Track** invites authors to submit original papers and poster abstracts in areas of network security related to green technologies and sustainability. Example topics include but are not limited to the following:

- Applications of cryptography
- Artificial intelligence in cybersecurity
- Authentication, access control, and authorization
- Cloud computing security
- Cyber physical systems security
- Digital Forensics
- Embedded systems security
- Hardware security
- Intrusion detection and prevention
- Malware and unwanted software
- Privacy-enhancing technologies
- Security architectures

**The GreenTech Industry 4.0 and Sustainable Business Track** invites authors to submit original papers and poster abstracts in areas related to emerging technologies and practices for sustainable industry, logistics, transportation, agriculture, manufacturing and transportation. Example topics include but are not limited to the following:

- Industry 4.0 Technologies
- Supply Chain Management
- Future of Retail and Consumer Products
- Big Data and Logistics
- AI in Food and Agriculture
- Industrial Internet-of-Things
- Smart Cities
- AI for Sustainable Transportation
- Robotics and Automation

**The GreenTech AI Applications for Sustainable Infrastructure Track** invites authors to submit original papers and poster abstracts in areas related to emerging technologies and practices for sustainable industry, infrastructure and cities. Example topics include but are not limited to the following:

- AI for Transportation Infrastructure
- AI for Inland Waterways and Watershed Management
- AI for Building and Urban Construction
- AI for Telecommunications Infrastructure
- AI for Air Traffic and Airport Management and Construction
- AI for Sea Ports & Harbor Management and Cargo Operations
- AI for Pipelines and Mass Transport Systems

## 2024 GreenTech Program Committee & Contacts

**General Conference Chair:** Robert Saunders, [rfsaunders@ieee.org](mailto:rfsaunders@ieee.org)

**Technical Program Chair:** Khoa Luu, [khoaluu@uark.edu](mailto:khoaluu@uark.edu)

**Conference Treasurer:** Melinda Saunders, [melindap@ieee.org](mailto:melindap@ieee.org)

**Publications Chair:** Roy McCann, [mccann@ieee.org](mailto:mccann@ieee.org)