IEEE CAI is a new conference and exhibition with an emphasis on the applications of AI and key AI verticals that impact industrial technology applications and innovations.

IEEE CAI seeks original, high-quality proposals describing the research and results that contribute to advancements in the following AI applications and verticals:

**AI IN HEALTHCARE/LIFE SCIENCES**
Explores the need for improved decision-making to assist medical practitioners as well as additional medical issues including personnel allocation and scheduling, automated sensing, improved medical devices and manufacturing processes, and supply chain optimization.

**AI IN TRANSPORTATION/AEROSPACE**
Focus includes the optimal design of aerospace systems using AI; large- and small-scale transportation systems; deep learning for autonomous driving; and autonomous decision-making in long-term space flight management.

**AI IN ENERGY**
AI tools have a noticeable impact on energy sectors and can be utilized in Power load forecasting, Power generation forecast of renewable energy to improve agility and resilience; Smart Grid Control, and Power Network Security Protection.

**INDUSTRIAL AI**
Addresses robust cyber-security; the effective use of Digital Twins, and Comprehensive Prognostics and Health Management for industrial assets in Aviation, Oil & Gas, and Power Generation, to reduce/eliminate unplanned maintenance events.

**AI FOR EARTH SYSTEMS DECISION SUPPORT**
Examining the use of AI to help with the analysis of complex events and their effect on the future of agriculture, power generation, and other environmental sectors of critical importance to humanity.

**ETHICAL & SOCIETAL IMPLICATIONS OF AI**
We will cover Explainability and Interpretability, to enhance understanding, trust, and informed decision making; Transparency in the AI data, system, and business; Privacy, Governance Risk, and Compliance; Robustness, Security/Resilience to attacks; and Fairness/Bias.

Access all submission details: [https://cai.ieee.org/2023/authors](https://cai.ieee.org/2023/authors)

Papers accepted by IEEE CAI will be submitted to the IEEE Xplore® Digital Library. Selected high-quality papers will be further invited for submission to a journal special issue.

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