# Special Session on Cyber Social Computing and Cyber-Enabled Applications (CSC&CEA)

**Description**

This special session aims to explore the latest advances and emerging challenges in Cyber Social Computing and Cyber-Enabled Applications, particularly driven by the increasing complexity of online interactions, data heterogeneity, and the convergence of AI with social systems. We welcome contributions that develop novel models, algorithms, systems, and applications addressing human-centric computing, affective computing, collective behavior, social network dynamics, personalized education, trustworthy interaction, and cross-domain applications empowered by cyberspace technologies. This session seeks to connect interdisciplinary researchers and practitioners to exchange insights, foster innovation, and build collaborations for shaping the next generation of intelligent, resilient, and socially-aware cyber systems.

We invite original, unpublished submissions—including work-in-progress, short papers, and position papers—on topics related (but not limited) to the following areas:

This special session will be held in conjunction with CyberSciTech 2025(2025 IEEE Cyber Science and Technology Congress, Japan, Oct. 21-15, 2025).

**CSC&CEA Topic**

➢ Social behavior modeling and group dynamics analysis via GNNs, LLMs, and multi-agent systems
➢ Influence estimation and behavioral cascade prediction using contrastive learning and causal inference
➢ Community structure mining and dynamic evolution tracking in large-scale networks
➢ Adversarial perturbations and robustness evaluation for social systems
➢ Misinformation detection and credibility reasoning with knowledge-enhanced and explainable models
➢ Cross-platform, cross-modal information diffusion and multimodal content understanding (text, image, meme, video)
➢ Trust modeling, reputation systems, and interpretable AI techniques in cyber social environments
➢ Privacy-preserving representation learning and federated social computing
➢ Human-AI collaboration in cyber-enabled social decision-making
➢ Pretrained foundation models and fine-tuning techniques for social computing tasks
➢ Ethical AI design, fairness auditing, and bias mitigation in socially aware algorithms
➢ Cyber-enabled applications in smart learning, digital health, civic engagement, and crisis response
➢ Emotional communication mechanisms in cyber social environments
➢ Prediction of social behaviors driven by affective computing and Emotional intervention and governance in in cyber social environments
➢ Personalized smart education services based on social data

**CSC&CEA Submission & Publication**

Interested authors can submit a full technical paper between 4-6 pages. All submissions should follow the IEEE CS format. (https://edas.info/N33760 ） Accepted and presented papers will be published in the proceedings of CyberSciTech 2025 by IEEE CPS (IEEE Digital Library and EI-indexed). At least one author of each accepted paper is required to register and

present their work at CyberSciTech 2025. Otherwise, the paper will not be included in the proceedings. Selected excellent papers, after further extension and revision, will be recommended to special issues of prestige international journals (SCI/EI indexed).

**Important Dates**
- Submission due: June 27, 2025
- Acceptance notification: August 11, 2025
- Camera-ready manuscript due: September 12, 2025

**Organizer**
- Weimin Li, Shanghai University, China
- Qun Jin, Waseda University, Japan