



CALL FOR PAPERS
SPECIAL SESSION ON
Large Language Models for Data Analytics and Applications
for ICCAD 2025
July 1-3, 2025, Barcelona, Spain

Session Co-Chairs:

- Prof. Weiwei Jiang, IEEE Member, Assistant professor, School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, China, Email: jww@bupt.edu.cn

- Prof. Ahmad Taher Azar, IEEE Senior Member, Full professor, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Saudi Arabia. Leader of Automated Systems & Soft Computing Lab (ASSCL), Prince Sultan University, Riyadh, Saudi Arabia, Email: aazar@psu.edu.sa

Session description:

The Special Session on Large Language Models for Data Analytics and Applications convenes to delve into the multifaceted realm of large language models (LLMs) and their transformative potential in the domain of data analytics. This session serves as a forum for researchers, practitioners, and industry stakeholders to explore the latest advancements, challenges, and applications of LLMs across diverse fields. By focusing on the intersection of natural language processing and data analytics, the session aims to foster a deeper understanding of how LLMs can revolutionize data-driven decision-making processes and empower innovative applications.

In this special session, participants will scrutinize the fundamentals of LLMs, including their architectures, training methodologies, and evaluation metrics, to elucidate the underlying mechanisms driving their efficacy in processing and understanding natural language data. Furthermore, the session will delve into the practical applications of LLMs in various domains such as natural language understanding, sentiment analysis, information retrieval, and conversational agents, showcasing their versatility and potential impact on real-world problems. Through case studies and empirical analyses, attendees will gain insights into the challenges and limitations inherent in LLMs, such as bias, ethical considerations, and scalability issues, while also exploring strategies to mitigate these challenges.

The topics of interest include, but are not limited to:

- Large Language Models (LLMs)
- Natural Language Processing (NLP)
- Data Analytics
- Text Classification
- Sentiment Analysis

- Information Retrieval
- Question Answering
- Conversational Agents

SUBMISSION

Papers must be submitted electronically for peer review by: **January 31, 2025**
<https://www.iccad-conf.com/submission/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).