International Conference on Data-Processing and Networking (ICDPN-2026)

Date: 25th -26th September, 2026

ORGANISED BY : Institute of Technology and Business in České Budějovice, Near Prague, Czech Republic, Europe (Venue).

************** CALL FOR PAPERS ***************

SPECIAL SESSION ON [Data Engineering 5.0: AI, Automation, and Analytics]

SESSION ORGANIZERS:

- **Vinod Kumar , School of Engineering & Applied Science, George Washington University, Washington, DC, USA , +1 (571) 473-9592, vinod.kumar@gwu.edu**
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- **Ms. Reena Jindal Assistant Professor Department of Computer Applications Panipat Institute of Engineering & Technology Panipat, India , Mobile number: 9812020020 Email ID: shinglareena@gmail.con**

EDITORIAL BOARD: (Optional)

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SESSION DESCRIPTION:

This special session explores the emerging paradigm of **Data Engineering 5.0**, where artificial intelligence, intelligent automation, and advanced analytics converge to build adaptive, scalable, and self-optimizing data ecosystems. The session focuses on next-generation data architectures and engineering practices that enable seamless data ingestion, processing, governance, and analytics across heterogeneous and high-velocity data environments. Key themes include AI-driven and autonomous data pipelines, automated data quality and metadata management, real-time and streaming analytics, cloud-native and edge-based data platforms, and the integration of DataOps, MLOps, and AnalyticsOps. Emphasis is placed on how automation and intelligence enhance reliability, scalability, security, and efficiency of data systems.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:
- Data Engineering 5.0 frameworks and architectures
- AI-driven and autonomous data pipelines

- Intelligent data ingestion, integration, and orchestration
- Automation in data quality, validation, and cleansing
- Cloud-native, serverless, and lakehouse data platforms
- Data mesh and data fabric architectures
- Real-time, streaming, and event-driven analytics
- Advanced analytics using machine learning and deep learning
- Generative AI for data engineering and analytics automation
- Automated feature engineering and model lifecycle management

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **[Data Engineering 5.0: AI, Automation, and Analytics]** *on or before* **[30th JULY 2026]**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at **https://www.icdpn-conf.com/Downloads**. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**Data Engineering 5.0: AI, Automation, and Analytics** at the top (above paper title) of the first page of your paper.

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