International Conference on Data-Processing and Networking (ICDPN-2024)

Date: 25th-26th October, 2024

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

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

SPECIAL SESSION ON

Scalable Data Processing Techniques at Enterprises for AI applications

SESSION ORGANIZERS:

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EDITORIAL BOARD:

Prof. (Dr.) Jagadeesh Kannan Raju, Dean (Engineering & Technology), SRM Institute of Science and Technology Tiruchirappalli, India

SESSION DESCRIPTION:

The explosion of enterprise data presents both opportunities and challenges. This special track tackles the crucial aspect of scaling data processing to empower real-world AI applications. We'll delve into the technical underpinnings of scalable architectures, designed to handle the ever-growing volume, velocity, and variety of data within your organization.

Prepare to explore cutting-edge techniques for data ingestion and integration, allowing seamless data flow from disparate sources. We'll dissect distributed processing frameworks that leverage the power of parallel computing to handle massive datasets efficiently.

The session will shed light on building robust data pipelines that automate data movement, transformation, and preparation – the lifeblood of any successful AI project. We'll explore best practices for data governance and security, ensuring data integrity and compliance throughout the processing journey.

Furthermore, this track delves into the intricate relationship between scalable data processing and enterprise systems. We'll examine how to integrate seamlessly with existing IT infrastructure, unlocking the potential of AI within your organization's current technological landscape.

Finally, the session culminates in exploring how these scalable data processing architectures fuel the development and deployment of powerful AI applications. Discover how to train complex models efficiently, leveraging the insights gleaned from your vast data reserves.

Join us for this unparalleled opportunity to unlock the full potential of AI for your business! Through a deep dive into scalable data processing architectures, you'll gain the knowledge and tools to transform your enterprise with the power of intelligent automation.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- High-Throughput Data Ingestion Engines with Kafka & Flume
- Distributed Processing with Spark Frameworks
- Building Automated Data Pipelines with Airflow
- Data Lakehouse for Scalability & Flexibility
- Containerized Data Processing Workflows
- Cloud-Native Scalable Data Pipelines
- In-Memory Computing for Real-Time AI
- Scalable Data Warehousing for Enterprise AI
- Stream Processing for Real-Time Machine Learning
- Data Governance & Security for Scalable Processing
- Microservices for Scalable AI Development
- Optimizing Model Training for Large Datasets
- Scalable Feature Engineering
- CI/CD for Scalable AI Pipelines
- Monitoring & Observability for Scalable Systems

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Scalable Data Processing Techniques at Enterprises for AI applications *on or before* 30th July 2024**. 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 **"Scalable Data Processing Techniques at Enterprises for AI applications"** at the top (above paper title) of the first page of your paper.

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