

Session Chair:

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Special Session Chair on Theme: “Artificial Intelligence and Data Science”

Descriptions:

Artificial Intelligence (AI) and Data Science extract knowledge from structured data and unstructured data by applying scientific processes and techniques drawn from different domains like statistics, cognitive science, computing, information science and heuristic approach. This information is applied to make various intelligent systems which ultimately help in decision making, forecasting as well as in the pattern recognition. Combining AI and data science provides a new dimensionality to solve any engineering problems and currently it is utilizing to create model for business and diagnostics. Data Science focuses on collecting, categorizing, strategizing, analyzing and interpretation of data. It is a specialized area that deals with the development of data driven solutions, data visualization tools and techniques to analyze big data. It also incorporates the concepts of machine learning and deep learning model building for solving various computational and real world problems.

Topics of Interest:

- Data Acquisition, Preprocessing and Understanding
- Data Processing (data mining, clustering/classification, data modeling, data summarization)
- Data Visualization (data reporting, data visualization, decision making)
- Data Analysis (exploratory/confirmatory, predictive analysis, regression, text mining, qualitative analysis, statistical analysis)
- Data Maintenance (data warehousing, data cleansing, data staging, data processing, data architecture)
- Statistical and Mathematical Data Modeling
- Ethics and Privacy behind the Data
- Data Science Toolkits.
- Big Data Analysis and Applications.
- Business Intelligence and Data Analytics.
- Data, AI Monetization and Products.
- Applied Data Science and AI.
- Intelligent and Adaptive Recommender Systems.

- Human-Centered AI and Data Science.
- Data Science and AI for Parallel and Distributed Computing.
- Data Science and AI for Autonomous Vehicles.
- Social Networks Analysis.
- Data Science and AI for Web-related User Behaviors.
- Data Science and AI for Detecting, Preventing, and Predicting Web Data Anomalies.
- Intelligent Agents and Systems.
- Evolutionary Algorithms in Data Science and AI.
- Applied Neural Networks and Deep Learning in Data Science and AI.
- Statistical Learning for Data Science.
- AI in Image Processing and Computer Vision.