

Title: Special Session on: Deep Life-Long Learning in Practical Applications

Aim and Scope

Despite that the machine learning, deep learning and AI are recently applied to many applications, they still suffer from many problems and challenges like missing data, incomplete data, data imbalance, difficulty in adaptability to changing data sets etc.

This session aims at the field of lifelong learning, also known as continual or sequential or incremental learning and is concerned with developing techniques and architectures enabling the models to learn sequentially without the need to re-train from scratch.

Therefore, this session would like to bring together researchers from various application areas who are working on practical implementations and deployment of new paradigms in machine learning, deep learning and on life-long learning systems.

Topics of interest

1. Learning from imbalanced data
2. Transfer learning.
3. Zero-shot and Few-shot learning.
4. Online Learning.
5. Semi-supervised Learning
6. Learning from incomplete and missing data
7. Life-Long Learning methods and Practical Applications for:
 - a. Anomaly Detection,
 - b. Cybersecurity
 - c. medical images analysis
 - d. industrial data processing and Industry 4.0
 - e. remote sensing and satellite imagery
 - f. Intelligent assistants
 - g. Chatbots
 - h. Precision Agriculture
 - i. Biometric Systems

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