Call For Papers

Special Session: Automation of Intellectual Tasks via Machine Learning for Data Science
Keywords:
Conference: The 2022 International Conference on Cyber-physical Social Intelligence (ICCSI)

Date: October 21-24, 2022	**Meeting mode**: Hybrid
Location: Nanjing, China	**Web site:** https://iccsi2022.agist.org

The scantiness of human labor in various fields poses a real challenge, showing the necessity of adopting machine learning (ML) to address various tasks in data science applications. As an example in medicine (also related to biotechnology and pharmacology), the ratio of patients-to-nurse in COVID-19 is way greater than the ratio of nurse-to-patients. As a result, that led to community efforts to provide auxiliary tools using ML, addressing various tasks from detecting COVID-19 to identifying effective drugs to treat the disease. Another example (in finance) is the difficulty to rank stocks (or other assets) from the most profitable to the least profitable ones, attributed to the inexistence of highly accurate knowledge base to guide traders. Such difficulty led to scientific attempts of several algorithmic trading tools. However, existing tasks in various fields need much performance improvements to meet the expected satisfaction of addressed communities. Moreover, the number of tasks in such fields is still growing and the demand for auxiliary tools using ML is inevitable. This special issue aims at providing an in-depth discussion of the latest academic and industrial research findings of intellectual automation using ML.

Topics of interest include, but are not limited to:

Methods and Algorithms
- Artificial Intelligence
- Machine Learning
- Deep Learning
- Data Mining
- Computer Vision
- Big Data Visualization, Modeling and Analytics

Applications
- Bioinformatics
- Medical Imaging
- Finance
- Blockchain
- Banking
- Manufacturing
- Transportation
- E-Commerce
- Cybersecurity
- Smart City
- Sustainable Computing

Important Dates:

May 15, 2022,	Full paper submission
July 1, 2022,	Acceptance/Rejection notification

August 31, 2022,   Final camera-ready papers due

Special Session Co-chairs:

Turki Turki (King Abdulaziz University,Saudi Arabia), email tturki@kau.edu.sa

Zhi Wei (New Jersey Institute of Technology, USA), email zhiwei@njit.edu

Paper Publication in Special Issues

Accepted papers of registered authors will be invited to submit an improved version to: Cells (JCR 2020: 6.6).

Special issue on Computational methods for advancing data analysis pertaining to cells.

Article processing charge (APC) is paid by authors or their institutions.