

Tentative Outline

Special Thematic Issue for the journal Recent Advances in Computer Science and Communications

Title of the Thematic Issue: “Scientific Research and Intelligent Automation in Industry 5.0”

Guest Editor: *Dr. Fazlullah Khan*

- **Scope of the Thematic Issue:**

We are entering a world of Industry 5.0 through scientific research and technological innovation, where traditional processes are being transformed with automated and more efficient systems. As a result, the world is considered the “global” stage for ecological changes and the digital transition of the planet. The real challenge is to combine intelligent automation and technological innovation through scientific research with environmental protection to design a better society and economy: it is a unique opportunity. A sustainable world is also resilient and prosperous. It should be stronger during crises and innovative in the ways of doing business. The climate crisis, the digital revolution, and intelligent automation are two profound and irreversible global transformations that must now be tackled with a worldwide vision through scientific research.

Scientific research and intelligent automation are the greatest allies of a sustainable world. Without research and automation, there can be no sustainability (environmental, technological, economic, social). We can make the world a better place through scientific research, innovative technologies, digitization, and automation. In this way, we can efficiently utilize natural resources to protect the environment. What technological innovations, research, and automation can support the environment? The present Special Issue aims to investigate these issues. Both theoretical and experimental studies are welcome, as well as comprehensive reviews and survey papers

Keywords: Smart technologies, Sustainability, Intelligent automation, Scientific methods, Industry 5.0, Digitization, Scientific research and environment protection

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Industry 5.0 and smart manufacturing
- Digitalization and green technologies
- Sustainability, Innovation, and technologies for manufacturing
- Energy efficiency and resource management
- Systems of Automation and Control
- Computation Intelligence and Electronic systems
- Computer Engineering and Robotics

Schedule:

- ✧ Thematic issue submission deadline:
- ✧ Submission Deadline 30 November 2022
- ✧ Decision Deadline: 31 December 2022
- ✧ Revision Submission: 31 January 2023
- ✧ Publication: First Quarter 2023

Contacts:

Guest Editor Name: Prof. Fazlullah Khan

Affiliation: Abdul Wali Khan University Mardan, Pakistan

Email: fazlullah.mcs@gmail.com

Guest Editor Name: Prof. Mian Ahmad Jan

Affiliation: Northwestern Polytechnical University, Xi'an, China
Email: mianjan@nwpu.edu.cn

Guest Editor Name: Dr. Nabeela Awan
Affiliation: Nagaoka University of Technology, Japan
Email: nabila.fazal@ieee.org