This special section will focus on (but not limited to) the following topics:

- AI applied to the Design for Assembly/Disassembly (DFA/DFD)
- AI for Assembly and Disassembly Line Balancing Problems (ALBP/DLBP), including single-model, mixed-model and multi-model lines
- AI for Assembly/Disassembly Sequence Planning (ASP/DSP)
- AI for Assembly/Disassembly Line Sequencing and Scheduling (ALS/DLS), including stochastic sequencing and scheduling
- AI for sustainable assembly/disassembly lines
- AI methods and new technologies to increase the workers’ safety in assembly and disassembly lines
- Human-Robot Collaboration (HRC) in assembly and disassembly lines assisted by AI
- Methods and algorithms that combine AI with solutions based on Internet of Things (IoT) and Edge Computing in assembly and disassembly lines
- Applications that combine AI and 5G in next generation efficient and sustainable assembly and disassembly lines

Manuscript Preparation and Submission
Follow the guidelines in “Information for Authors” in the IEEE Transactions on Industrial Informatics http://www.ieee-ies.org/pubs/transactions-on-industrial-informatics. Please submit your manuscript in electronic form through Manuscript Central web site: https://mc.manuscriptcentral.com/tii. On the submitting page #1 in popup menu of manuscript type, select: SS on AI for Efficiency and Sustainability in Assembly/Disassembly Industrial Processes

Submissions to this Special Section must represent original material that has been neither submitted to, nor published in, any other journal. Regular manuscript length is 8 pages.

Note: The recommended papers for the section are subject to final approval by the Editor-in-Chief. Some papers may be published outside the special section, at the EIC discretion.

Timetable:  
Deadline for manuscript submissions: April 30, 2022  
Expected publication date (tentative): October 2022

Guest Editors:  
Dr. Beatrice Lazzerini, Dept. of Information Engineering, University of Pisa, Italy, beatrice.lazzerini@unipi.it  
Prof. Francesco Pistolesi, Dept. of Information Engineering, University of Pisa, Italy, francesco.pistolesi@unipi.it  
Dr. Michela Dalle Mura, Dept. of Civil and Industrial Engineering, University of Pisa, Italy, michela.dallemura@unipi.it  
Prof. Gino Dini, Dept. of Civil and Industrial Engineering, University of Pisa, Italy, gino.dini@unipi.it

Editor-in-Chief: Prof. Dr.-Ing. Ren C. Luo  
tii@ira.ee.ntu.edu.tw  
http://www.ieee-ies.org/pubs/transactions-on-industrial-informatics