

Annual Conference of the IEEE Industrial Electronics Society (IECON 2022)

Special Session on

“Emerging Topics in Ethics of Assistive Robots”

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Call for Papers

Assistive robots are designed to restore, maintain, and even improve people’s daily functions so as to ensure people’s mental and physical soundness. Various kinds of robots are now commercially available. While they are expected to help people, those new technologies may lead to changes in social interactions and care practices associated with positive or negative emotions for employees, thus to the implementation of new technologies in an organization may lead to changes in social interactions, thus in noticeable cultural changes. In recent years, the development of human-assistive technologies has been focusing also on psychological impact on users, social roles played by a robot, ethical issues related to the design and use of the technologies, and other issues. To provide a place to deal with these emerging topics and exchange ideas, we organize a special session to discuss engineering aspects, societal impact, robot ethics and case studies with a special focus on the above mentioned issues of robotics, intelligent systems, and human-support systems and technologies considering its users’ true happiness, code of ethics and impact in society.

Topics of interest include, but are not limited to:

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| 1 | Ambient Intelligence |
| 2 | Engineering Machine Ethics in Assistive Robotics |
| 3 | Ethically Driven Robotics and Automation Systems |
| 4 | Ethical Questions in Sensing and Recognition |
| 5 | Explainability, Transparency and Bias in AI-Driven Robotic Systems |
| 6 | Health-Care Systems |
| 7 | Human Understanding |
| 8 | Human Performance and Modelling |
| 9 | Industrial Cyber-Physical Systems and Societal Implications |
| 10 | Engineering Trust and Ethics in Assistive Robotics |
| 11 | User-Centered Design |
| 12 | Societal Impact of Assistive Robotics |

Submissions Procedure:

All the instructions for paper submission are included in the conference website: <https://iecon2022.org/>

Deadlines:

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| Full paper submission: | April 15, 2022 |
| Paper acceptance notification: | June 17, 2022 |
| Camera-ready paper submission: | July. 29, 2022 |