Special Session:

Industry of the Future: ethics

Organizers

**Damien Trentesaux, LAMIH UMR CNRS 8201, France,** [**Damien.Trentesaux@uphf.fr**](mailto:Damien.Trentesaux@uphf.fr)

**Stamatis Karnouskos, SAP,** [**karnouskos@ieee.org**](mailto:karnouskos@ieee.org)

**Daswin De Silva, La Trobe University,** [**D.DeSilva@latrobe.edu.au**](mailto:D.DeSilva@latrobe.edu.au)

Description:

Based on the development of Artificial Intelligence models and methods, Future industrial systems will be based upon the design and use of more autonomous, intelligent systems, being resources, products, digital systems interacting or cooperating with humans. This holds also true in the healthcare, logistics and transportation sectors. All these developments should be accompanied by strong attention to ethical and societal issues involved in the design, development, operation and maintenance of such systems and their automation beyond classical key performances indicators expressed in terms of effectiveness or efficiency.

This session is seeking position papers, ideas, interdisciplinary works, critical analysis and comparison, simulations, even with a low degree of maturity. All aspects relevant to ethics can be addressed: ethical behaviour of researchers (ethical design of systems, techno-ethics), study of the ethical behaviour of the artificial system designed (design of ethical systems, machine ethics), impact on society, ethical risks relevant to the over-integration of humans with artificial systems (e.g., operator 4.0), algorithmic bias in AI, and transparency in intelligent autonomous systems and their applications, performance measurement, etc.

Interdisciplinary studies on the applicability of different ethical and societal frameworks in future industrial systems, including legal, philosophical and economic aspects are also of great interest.

Inspiration from sci-fi literature, and other fields relevant to humanities would bring interesting complementary points of view.

This session, supported by the IEEE IES Technical Committee on Technology Ethics and Society (TC-TES <https://tes.ieee-ies.org/>),

Keywords: Ethics, human-machine cooperation, system engineering, artificial intelligence, safety, bias and transparency, technology, society.

**Important dates:**

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| Full paper submission: | May 15, 2023 |
| Notification of acceptance/Rejection: | June 15, 2023 |
| Final camera-ready paper submission: | July 10, 2023 |
| Early registration and fee payment: | July 15, 2023 |
| SOHOMA 2023 Workshop | September 28-29, 2023 |
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More information: [https://sohoma2023.sciencesconf.org](https://sohoma2023.sciencesconf.org/) - Email: [sohoma2023@sciencesconf.org](mailto:sohoma2023@sciencesconf.org)