



Ethics and standards for human-robot partnerships at work

It is becoming commonplace for robotics to be introduced into workplaces to assist people with manual tasks. Advanced safety monitoring and response systems have brought about a new generation of smaller power and force limited robots but have also made it possible for many larger scale robotic systems to now work alongside or even directly with people without the traditional need for hard physical segregation. This means human workforces will increasingly be relieved of the 'dull, dirty and dangerous' tasks that make work unhealthy and monotonous. Instead, the implementation of robot assistance should make their roles be more skilful, safe and satisfying. However, are human-robot processes being introduced / enforced with sufficient understanding of potential social and ethical impacts? Are current standards adequate for these new work practices?

This special session aims to gather multidisciplinary contributions to share, discuss and challenge ideas and expectations, reflect current thinking, and report progress in this area. We encourage empirical and theoretical submissions from all perspectives: technological, human, regulatory, etc.

Topics of interest include, but are not limited to the following:

- New technology implementation and integration strategies
- Responsible and user-centred design in work environments
- Standards and regulatory frameworks
- Issues and impacts of autonomous systems
- Managing change from human-human to human-robot teams

Submissions: We invite authors to submit papers of 6-12 pages including figures but excluding references. All papers for this special session must be submitted in the ICRES format as described at: <https://clawar.org/icres24/instructions-to-authors/>. Please ensure reference to this special session is declared at the top of the page.

Submission of papers: April 1 2024

Submission of final version: June 1st.

At least one author of each accepted paper must attend the session to present the paper

Organizer: Sarah Fletcher
Centre for Robotics and Assembly
Cranfield University, UK

Contact: s.fletcher@cranfield.ac.uk