

**THE 4TH IEEE INTERNATIONAL
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Special Session on

**“Learning control for human-robot interaction in elderly
care”**

Organized by

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Call for Papers

Theme: Traditional control systems used in robots that are mainly geared to the industrial manufacturing purpose are no longer effective in robots used in eldercare, since serving an elderly people requires more complicated motions and safety issues need to be taken into consideration as well while the robot is interacting with elderly. The purpose of this special session is to investigate the learning control and its application in human-robot interaction used in elderly care, and also to bring all researchers together to present the recent and latest advances and technologies in this field in order to further summarise and improve the methodologies on this topic.

Topics of interest include, but are not limited to:

- Learning control design for elderly care robotics
- Control stability analysis of human-robot interaction
- Modelling of human-robot interaction
- Mechatronics-based control in robotics
- Advanced intelligent control development for elderly care robotics
- Methods and tools for learning control design
- Case studies from human-robot interaction