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## Introduction to the SICFP'25 Special Issue

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Liselott Ericson, Peter Krus and Samuel Karnell

*Linköping University, Sweden*

It is a great pleasure to introduce this special issue based on contributions from the 19th Scandinavian International Conference on Fluid Power (SICFP'25). This special issue presents seven selected papers that were originally presented at SICFP'25, held in June 2025 at Linköping University, Sweden, and have been revised and extended by the authors to reflect their latest research results.

SICFP is a well-established international conference that provides a forum for the presentation and discussion of scientific and technological advances in fluid power and fluid-mechatronic systems. The conference is organized biannually and alternates between Linköping University and Tampere University, fostering long-term collaboration between academia and industry within the fluid power community. SICFP'25 was organized by the Division of Fluid and Mechatronic Systems at Linköping University and took place under the motto “Shaping the Future of Fluid Power.”

The conference covered a broad range of topics regarding fluid power, including component and system development, intelligent and data-driven methods, and issues related to noise and vibration. From the numerous high-quality contributions presented at the conference, the papers selected for this special issue were picked after the peer-review rating of the submissions and represent a subset of particularly relevant and promising work that aligns well with the scope of this journal.

