

# Compositional approaches to automata and/or learning

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## Summary

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*TalTech School of Information Technologies, Department of Software Science offers a 4-year PhD position in the field of ICT.*

Research field:	Information and Communication Technology
Supervisor:	Pawel Maria Sobocinski
Availability:	This position is available.
Offered by:	School of Information Technologies Department of Software Science
Application deadline:	Applications are accepted between September 01, 2020 00:00 and October 02, 2020 23:59 (Europe/Zurich)

## Description

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In recent years the importance of structural accounts of learning has grown, given the increasing importance of reliability and explainability of learning systems.

This project will explore ways of applying techniques and concepts from category theory to break up such systems in a compositional fashion, i.e. where the system description is compatible with the underlying semantics. Concrete topics may include applications to supervised learning, reinforcement learning, transfer learning and automata learning and will depend on the background and motivation of the successful candidate.



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