



First International
Symposium on the
Tsetlin Machine

Grimstad / Norway / 20-21 June 2022

Call for Papers

The emerging paradigm of Tsetlin machines makes a fundamental shift from arithmetic-based to logic-based machine learning. At the core, finite-state machines, based on learning automata, learn patterns using logical clauses, and these constitute a global description of the task learnt. In this way, the Tsetlin machine introduces the concept of logical interpretable learning, where both the learned model and the process of learning are easy to follow and explain. As a result, it reduces the expertise needed to apply ML techniques efficiently in various domains. The paradigm has enabled competitive accuracy, scalability, memory footprint, inference speed, and energy consumption across diverse tasks, including classification, convolution, regression, natural language processing (NLP), and speech understanding.



Topics of Interest

Topics of interest include (but are not limited to):

- Tsetlin Machines
- Learning automata
- Novel AI Algorithms
- Explainable and Interpretable AI
- Energy-efficient AI Systems Design
- New AI Applications including signal and image processing
- Intelligent Data Preprocessing

Important Dates

- Paper Submission deadline: March 18, 2022
- Notification to authors: April 22, 2022
- Camera-ready submission deadline: May 20, 2022

Submitted manuscripts should closely reflect the final papers as they will appear in the Proceedings, and should not exceed 8 pages for regular papers and 4 pages for system demos in two-column IEEE proceeding format.

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