

# Logic-based Learning of Interpretable Knowledge from Raw Data (Invited talk)

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## Abstract

In this talk, I will overview the state-of-the-art of logic-based machine learning for learning different classes of logic-based programs, (e.g., non-monotonic, non-deterministic and preference-based). I will then present how the advanced features of this family of systems can help the development of innovative neuro-symbolic AI solutions that combine statistical learning for fast “low-level” perception from unstructured data, with “high-level” symbolic learning of interpretable knowledge in a range of tasks. I will show that our neuro-symbolic solutions outperform differentiable baseline systems in accuracy and data efficiency.

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