



## SEMINAR ON ARTIFICIAL INTELLIGENCE AND LOGICS

# Neuro-symbolic: Approaches and applications

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Fabiano has Ph.D in Artificial Intelligence from the Universidade de São Paulo (USP). Has experience in research and development of Automatic Speech Recognition (ASR) and Speech Synthesis. Currently, Fabiano is doing a post-doctorate with Marcelo Finger, where they focus on neuro-symbolic artificial intelligence methods and their applications.

With the awakening and success of deep learning in recent years, other concepts have also become more attractive, in particular the concept of neuro-symbolic AI where the motivation is that one concept can remedy the weaknesses of the other generating a model with the best of two worlds. In this presentation, we will talking about Logic Tensor Networks (LTN), Recursive-Reverse-Recursive Neural Networks (R3NN) and special compositions of Long Short Term Memory (LSTM) that are powerfull concepts used in most part of neuro-symbolic works currently. We will talk about the central idea in each of them, debating their strengths and weaknesses. We will also show some applications, as well as its performance.



Auditório Antonio Gilioli -  
Bloco A  
14:00  
Válido como AAC

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