



Kolloquiumsvortrag

Montag, 23. Mai 2022, 16:00 Uhr, Raum WE5/05.003

Learning and reasoning with conceptual spaces

Prof. Zied Bouraoui, Artois University, France

Conceptual spaces are geometric representations of knowledge, in which the objects from some domain of interest (e.g. movies) are represented as points in a metric space, and concepts (e.g. comedy) or properties (e.g. scary) are modelled as (possibly vague) convex regions. Conceptual spaces were proposed by Gardenfors as an intermediate representation level between symbolic and connectionist representations. In this talk, I will first present a number of recent strategies for learning conceptual space representations from data, and then show how the learned spaces can be used to support reasoning.