Recursive Neural Networks: 
An Alternative to Layered Neural Architectures

The talk introduces a fully recursive perceptron network (FRPN) architecture as an alternative to multilayer perceptron (MLP) with multiple hidden layers networks. The FRPN consists of an input layer, an output layer, and only one hidden layer in which the hidden layer neurons are fully connected with algebraic (instantaneous) connections. The FRPN is particularly attractive as an alternative to deep MLP since the FRPN eliminates the need of obtaining the number of hidden layers and the number of neurons per hidden layer. It will be shown that an FRPN can at least match the computational capabilities of MLP networks while being much simpler in architecture.

Es laden ein die Dozenten der Fakultät für Ingenieurwissenschaften, Informatik und Psychologie.

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gez. PD Dr. F. Schwenker