



## **Fakultät für Ingenieurwissenschaften und Informatik**

### **Informatik-Fachvortrag**

**Mittwoch, den 10. Juni 2009, 14 Uhr c.t.**  
Universität Ulm, Oberer Eselsberg  
Gebäude O27, Raum 2203

**Herr Prof. Dr. Herbert Jaeger**  
Computational Science, Jacobs University Bremen gGmbH

spricht zum Thema

### **An introduction to Echo State Networks, and maybe more**

The talk introduces the "Echo State Networks" (ESN) approach to the supervised training of recurrent neural networks. ESNs are characterized by two properties: (1) a large recurrent neural network is used as a "reservoir" of excitable complex dynamics; this network is not changed by learning; (2) only the weights of output connections are learnt. It works!

The talk will give an introduction to (by now) standard concepts and theory of the field, plus, depending on how fast we can proceed, a presentation of current research. If time does not suffice to enter deeper into this lovely area, which is likely, I'll be around and gladly offer an extra more in-depth session after the official talk.

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

Ulm, den 26.05.2009

gez. Prof. Dr. G. Palm