

## Satellite meeting: Information processing with recurrent dynamical systems: theory and experiment

**Thursday 6 september 2012**

### Program

9:10-9:30	Benjamin Schrauwen (UGent)	Introduction and motivation for the workshop
9:30-10:05	Laurent Larger (invited)	Optoelectronic demonstrations of Reservoir Computing with nonlinear delay dynamics
10:05-10:40	Robert Legenstein (invited)	Noise can replace the teacher in reservoir computing systems
10:40-11:10	<i>Coffee</i>	
11:10-11:30	Joni Dambre (UGent)	Linear and non-linear memory capacity of dynamical systems
11:30-11:50	S. Ortín, L. Pesquera, J. M. Gutiérrez (contributed)	<i>Memory and nonlinear mapping in Reservoir Computing with two uncoupled nonlinear delay nodes</i>
11:50-12:10	Daniel Brunner (IFISC)	All optical reservoir computer
12:10-12:30	Lennert Appeltant (VUB)	memory boosting, constructed mask, and multiple nodes
	<i>Lunch</i>	
14:00-14:35	Andrew Adamatzky (invited)	On prototyping of non-linear media computers: crystallization, finders and slime
14:35-15:10	Peter Bienstman (invited)	photonics reservoir computing with InP and SOI chips
15:10-15:30	Simon Brodeur and Jean Rouat (contributed)	<i>Regulation toward Self-Organized Criticality in a Recurrent Spiking Neural Reservoir</i>
15:30-15:50	Francois Duport (ULB)	All optical reservoir computer
16:00-16:30	<i>Coffee</i>	
16:30-16:50	Anteo Smerieri (ULB)	Analog reservoir computer with analog readout
16:50-17:20	Round Table discussion	
19:00-22:00	<i>Supper</i>	

