



# US-Europe Workshop

## “Reverse Engineering of the Human Brain”

May 23-26, 2010 Grand Hotel Park, Dubrovnik, Croatia

### Workshop Program

#### Sunday May 23, 2010

- 17: 00-19:00 Registration
- 18:00 – 19:00 Preparatory meeting (Organizing Committee, Session Chairs and Recorders only)
- 19:00 – 19:15 Introduction by workshop chairs: Rahmat Shoureshi & Giulio Sandini
- 19:15 – 19:45 Welcome by the funding organizations  
Graham Harrison (NSF), Les Lee (AFOSR), Hugh DeLong (AFOSR), Ana Helman (ESF),  
Eva Hoogland (ESF), Lars Kristiansen (ESF).
- 19:45 – 20:00 Review of workshop program by workshop chairs
- 20:00 – 21:30 Workshop opening cocktail & dinner

#### Monday May 24, 2010

##### Plenary Lectures

- 9:00 – 9:45 *Topic TBD* by J. Wayne Aldridge
- 9:45 – 10:30 *The Neuromorphic Brain* by Rodney Douglas
- 10:30 – 11:00 Coffee Break
- 11:00 – 11:45 *Silicon and Biological Adaptive Neural Circuits* by Gert Cauwenberghs
- 11:45 – 12:30 *Towards a Neurophysiologically Grounded Cognitive Architecture for Cooperative Human Robot Interaction* by Peter Ford Dominey
- 12:30 – 14:00 Lunch Break
- 14:00 – 16:00 Four Parallel Sessions: Identifying the main challenges in
- Engineering Brain Functions (Session 1)**  
Chair: Paul Verschure Recorder: Michael Baratta
- Engineering Brain Circuitry (Session 2)**  
Chair: Cherie Kagan Recorder: Sylvie Renaud
- Scientific Understanding of Brain Functions (Session 3)**  
Chair: Stephen Jackson Recorder: Garrett Stanley
- Scientific Understanding of Brain Circuitry (Session 4)**  
Chair: Dominique Durand Recorder: Stefano Panzeri

## **Monday May 24, 2010**

16:00 – 16:30 Coffee Break

16:30 – 18:00 Continuation of four parallel sessions

18:00 – 18:45 Organizing Committee and Sessions Chairs & Recorders progress meeting

18:00 – 19:30 Break

19:45 – 20:00 Bus transport to Restaurant Nautika

20:00 – 22:00 Workshop Banquet

## **Tuesday May 25, 2010**

9:00 – 10:30 Four 15+5 minute presentations from each Session (plenary)  
Regrouping of participants into 4 interdisciplinary breakout groups addressing the main challenges identified

10:30 – 11:00 Coffee Break

11:00 – 12:30 Four parallel session with re-grouping of members

12:30 – 14:00 Lunch Break

14:00 – 16:00 Continuation of the four parallel sessions

16:00 – 16:30 Coffee Break

16:30 – 18:00 Four parallel sessions on development of a research roadmap

18:00 – 18:45 Organizing Committee, Sessions Chairs & Recorders progress meeting

Open Dinner

## **Wednesday May 26, 2010**

9:00 – 10:30 Four 15+5 minute presentations on research roadmap from each session (plenary)

10:30 – 11:00 Coffee Break

11:00 – 12:30 Finalizing the Research Roadmap (plenary)

12:30 – 13:00 Concluding remarks by co-chairs of the workshop

13:00 – 14:00 Lunch Break

14:00 – 16:00 Organizing Committee, Sessions Chairs and Recorders meet to draft the workshop report

16:00 Workshop adjourned