



FACETS-ITN

<http://www.facets-itn.eu>

FACETS Initial Training Network

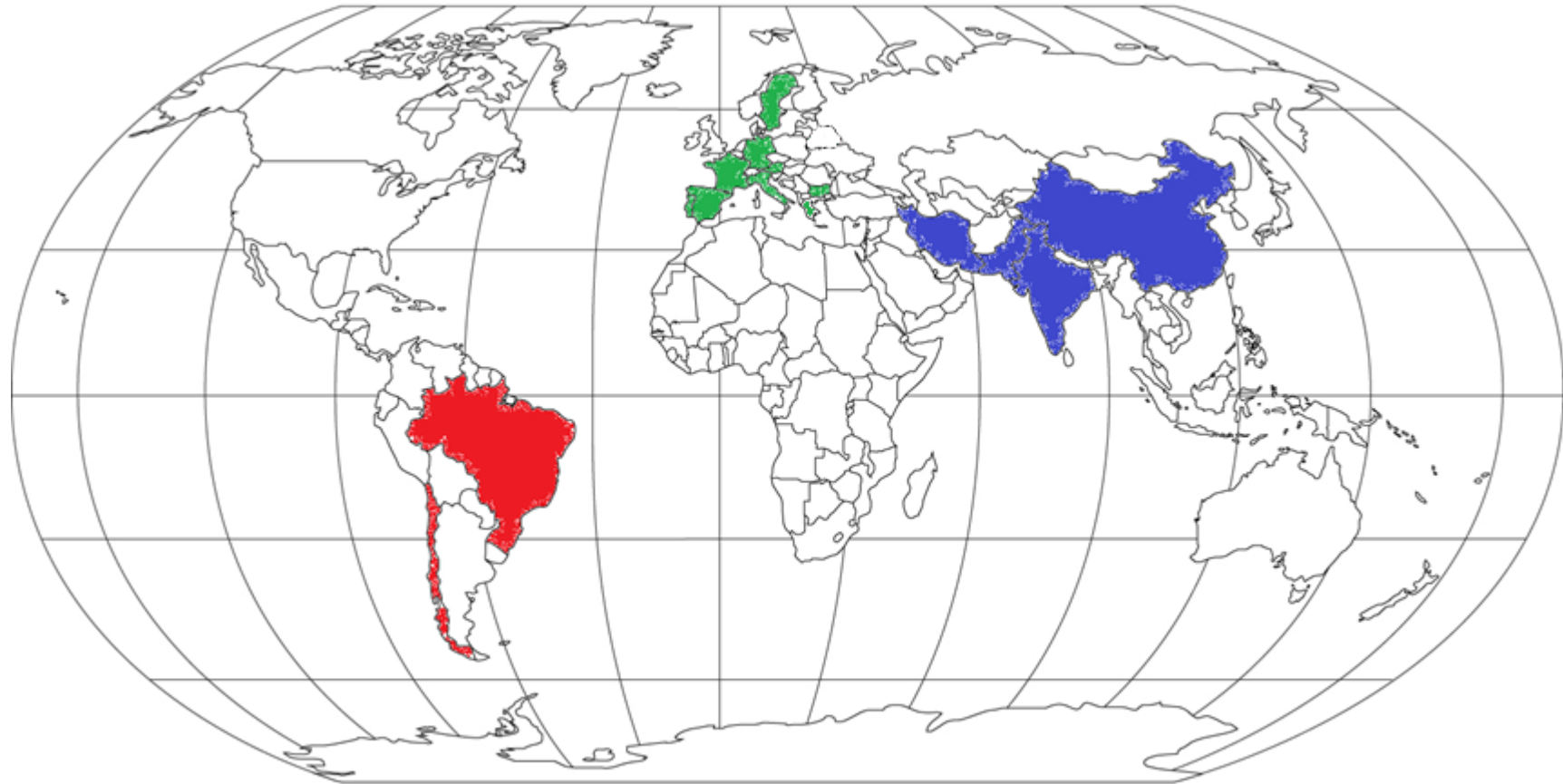
3rd FACETS-ITN Student Conference: Neuro-Inspired Data Processing for Imaging and Medical Applications



FACETS-ITN Institutes



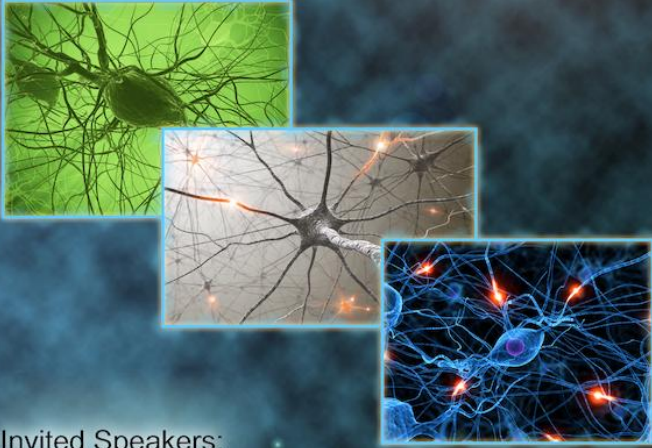
FACETS-ITN Students – Country of Origin



1st Student Conference

FACETS-ITN student conference

**Cell Types and Synaptic Wiring:
Functional Consequences for the Cortex**








Invited Speakers:

Thomas Klausberger (Medical University of Vienna)
Almut Schüz (Max Planck Institute for Biological Cybernetics, Tübingen)
Claus Hilgetag (Jacobs University, Bremen)
Ido Davidesco (Weizmann Institute of Science, Rehovot)

12 September 2011, Lecture Hall of the Kirchhoff Institut für Physik,
Im Neuenheimer Feld 227, Heidelberg, Germany

More information and registration under facets-itn.eu

- Cell Types
- there are actually more than inhibitory and excitatory neurons

2nd Student Conference

2nd FACETS-ITN Student Conference

Barcelona, Spain 27 September 2012

Applications of Neuromorphic Hardware

Invited speakers :

- Marc-Oliver Gewaltig (EPFL)
- Bernabé Linares-Barranco (IMSE)
- Guy Paillet (Cognimem Technologies)
- Narayan Srinivasa (HRL Laboratories)

More information under facets-itn.eu
FREE for the first 10 students to register

- Where can we apply neuromorphic engineering?
 - Imaging
 - Autonomous Control
 - Robots



Technology Transfer and Applications

- What can we do with our technology/research?



Technology Transfer and Applications




Technology Transfer and Applications


- medical applications would be nicer?





Today: 3rd Student Conference

3rd FACETS-ITN Student Conference

 **FACETS-ITN**
www.facets-itn.eu
FACETS Initial Training Network

 **MARIE CURIE**


 **SEVENTH FRAMEWORK PROGRAMME**


 **ATL**

Stockholm, Sweden 10 - 11 June 2013


Neuro-Inspired Data Processing for Imaging and Medical Applications


Measure


 Pyramidal neuron

 Activity in monkey


Model


 Spiking activity

 Orientation mapping

 Lighting vs estimated position

Implement

 Single neuron

 Spike trains from hierarchical network

Student talks:


- Neurobiology of Cells and Networks
- Modelling of Neural Systems
- Neuromorphic Hardware
- Computational Principles
- Learning and Plasticity

Invited speakers:

Dr. Edwin Johnson
Director, Stockholm Brain Institute

Dr. Robin Johnson
Director of Research, Advanced Brain Monitoring Inc.

Dr. Marte Thuen
Chief Scientific Officer, NordicNeuroLab AS

More information and registration: facets-itn.eu 

- Where can we apply neuroscience?
- How can we transfer ideas and technology to useful products?

NordicNeuroLab

- Marte Thuen, Chief Technology Officer
- fMRI: functional Magnetic Resonance Imaging



nordicneurolab.com



Advanced Brain Monitoring

- Robin Johnson, Advanced Brain Monitoring
- accelerated learning



advancedbrainmonitoring.com



Stockholm Brain Institute

- Edwin Johnson
- coordinating Swedish brain research



