

RIKEN Symposium

The Target oriented Research and Development Brain Science under the Special Coordination Funds
for Promoting Science and Technology by the MEXT

Neuroinformatics Research in Vision

Achievements of project and future perspective

Date: December 4, 2003

Location: Okochi Hall, RIKEN

Organizer: RIKEN BSI

Official Language: English

Theme of the symposium:

Neuroinformatics Research in Vision (NRV) project started in 1999 under the grant for "Target Oriented Research and Development for Brain Science", the Special Coordination Funds for Promoting Science and Technology supported by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), JAPAN. The objective of this project was to establish an Informatics environment for Vision research as a pilot project which would lead to a Neuroinformatics of most possible fields of neuroscience in the future. In this symposium, we would like to show achievements we have made during the period of the NRV project, and we also wish to have an opportunity to discuss future perspectives of Neuroinformatics.

§1 Morning Session *Ch. Masahiro Sokabe (Nagoya University)*

- 10:00 **Opening remarks:** *Shiro Usui (RIKEN BSI)*
- 10:10 **Perspectives on Neuroinformatics:** *Shun-ichi Amari (RIKEN BSI)*
- 10:20 **Overview of NRV project:** *Shiro Usui (RIKEN BSI)*
- 10:40 **Visiome Platform: A Test-bed for Neuroinformatics database system:**
Isao Yamaguchi (Fuji Xerox)
- 11:20 **Visiome Platform at the cellular and local network level:**
Hiroyoshi Miyakawa (Tokyo University of Pharmacy and Life Science)
- 11:55 **Roles of neuroinformatics in visual neurophysiology research:**
Izumi Ohzawa (Osaka University)

§2 Lunch time session

- 12:30 **Poster and demonstration:** *Project members*

§3 Afternoon session *Ch. Hiroyoshi Miyakawa*

- 14:00 **Neuroinformatics and computational neuroscience - A practical perspective:**
Ted Carnevale (Yale University, USA)
- 14:30 **Neuroinformatics - Definitions and data sharing policies:**
Erik de Schutter (University of Antwerp, Belgium)
- 15:00 **A pilot study for the OECD Neuroinformatics internet portal and related activities:**
Raphael Ritz (Humboldt University, Germany)
- 15:30 **Evolution of brain and CNS from the viewpoint of genome and gene expression profile - What happened in the evolutionary process from planarian to human?:**
Takashi Gojobori (National Institute of Genetics, Japan)
- 16:00 **Coffee Break**
- 16:15 **Discussion:** *Ch. Masahiro Sokabe (Nagoya University) & Hiroyoshi Miyakawa*
- 16:45 **General comments:** *Masao Ito (RIKEN BSI)*
- 17:00 **Closing remarks**

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