



M:NET

Measuring the
Impossible
NETwork

AIM

Measurements with persons are those in which human perception and interpretation are used for measuring complex, holistic quantities and qualities, which are perceived by the human brain and mind. Providing means for reproducible measurement of parameters such as pleasure and pain has important implications in evaluating all kind of products, services and conditions.

Progress in this area requires the cross-linking of related developments across a variety of disciplines, embracing the physical, biological, psychological and social sciences. On the other hand, it faces an ever-increasing demand for valid measurements as the basis for decision making.

This course inaugurates a new era for this subject. Here a large board of scholars and scientists from physical, psychological, biological, and social sciences are accepting the challenge of working together to reach a common understanding of measurement theory and methods. The course is intended for senior scientists and it is organised as a part of an European coordination action, MINET: Measuring the Impossible Network. In the first part, generic theoretical and methodological issues are treated, including the conceptual basis of measurement in the various field involved, the development of formal, representational and probabilistic, theories, the approach to experimentation and the theories and methods for multidimensional problems. In the second, several implementation areas are presented, including sound, visual, skin and smell perception, brain imagining, body language and emotions, and, finally, the use of measurements in decision making.

LOCATION

The training course event will be held in Genova, which has been the European Capital of Culture in 2004, serving as a meeting point for different people, for exchanging ideas, in view of a common benefit. Genova, whose name comes from the Latin word Janua for Door, has been in the centuries a door connecting Europe with the different countries and cultures of the Mediterranean basin and thus is an appropriate site for a Training Course involving different scientific visions and approaches to focus on a common objective: the human being. Genova is located in the North-West of Italy and is one of the major ports of the Mediterranean Sea. The City has a very large, medieval, historical centre, surrounding the Old Harbour, completely renovated during the Columbian Celebrations, in 1992, by the worldwide famous architect Renzo Piano. It hosts the fabulous Aquarium, with six thousand animals in carefully reconstructed natural environments, visited by over one million persons a year. Genova is also the centre of the Ligurian Riviera, with the renowned tourist resorts of Portofino and Cinque Terre, at an easy reach.

The Course will take place in the Palace of the Prince, the most significant XVI century monumental and artistic complex in Liguria. It was built for Andrea Doria, a great admiral and one of the key European political figures in the first half of the XVI century. He was an important patron of the arts and he commissioned Perin del Vaga, Raffaello's pupil and main assistant, to decorate the Palace. The terraces of the Palace overlook Italian-style gardens, adorned by marble sculptures, including the Triton Fountain by Montorsoli, from Michelangelo's school. So it will be a great occasion for a scientific meeting in a fascinating historical environment.

Training Course 2008

**Theory and methods
of measurements with
persons**

9-11 June 2008
Genova, Italy



M:NET

CHAIRS

Birgitta Berglund and Giovanni B Rossi

LECTURERS

- Birgitta Berglund, Stockholm University, Sweden
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- Christian Eitzinger, Profactor Produktionsforschungs GmbH, Austria
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- Teresa Goodman, National Physics Laboratory, NPL, UK
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- Fred Roberts, Rutgers University, USA
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- Patrick Susini, IRCAM, France
- James T Townsend, Indiana University Bloomington, USA
- Boris Velichkovsky, Technische Universität Dresden, Germany
- Andrew Wallard, Bureau International des Poids et Mesures, BIPM, France

LOCAL ORGANISING COMMITTEE

- Giovanni Battista Rossi
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- Matteo Panero
- Vittorio Belotti
- Roberto Pani

DIMEC

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dimec



TOPICS

- Measurement across physical and behavioral sciences
- Measurement in psychology
- Measurement in sensory physics
- Measurement in behavioral and social science
- Representational theory of measurement
- A probabilistic theory of measurement
- Experimental and quasi experimental methods
- Multivariate measurements
- Multidimensional scaling
- Foundations of universal Fechnerian scaling
- Neural networks and fuzzy sets, fuzzy logic
- Measuring and reconstructing multiscale dynamics
- Sound perception
- Skin senses and haptic perception
- Smell, food and taste
- Visual perception
- Brain imaging
- Body language
- Emotions
- Risk assessment and decision making

HANDS ON TRAINING

Hands-on training sessions, under the responsibility of the interested lecturers, will be organised in a dedicated room, close to the main hall, in break times and in parallel with the implementation-area session, in order to match the interests of the participants, arranged in small groups

PROJECT PRESENTATION

Measuring the Impossible Network (MINET) is a Coordination Action funded under the sixth European Framework for Research and Technology (FP6), Activity Area “New and Emerging Technology (NEST)”. MINET coordinates activities in the “Measuring the impossible (MtI)” fields to achieve longterm integration and advancement of the science of measuring complex, holistic quantities and qualities across all relevant areas through Europe. The MINET-project is coordinated by Stockholm University and runs for 36 months, starting from 01.02.2007. It includes 22 partners from 11 different EU-countries. **SIXTH FRAMEWORK PROGRAMME**



COST

The course is an activity undertaken within the Coordination Action MINET. Participation is free of charge for EU/FP6 Measuring the Impossible (MtI)-project partners. Costs for travel and subsistence are already allocated to the MtI-project coordinators' individual MINET-budgets.

APPLICATION

Since the course is offered to a limited number of attendees it is necessary to carry out a pre selection of the participants.

Pre-selection will be based on

- motivation of the candidate
- CV of the candidate
- Involvement of the candidate in NEST-MtI European Projects.

The application module available on the website should be filled in all its parts and sent by email to :

minet_course@dimec.unige.it
or by fax to: +39 010 353 2834

DEADLINE

The deadline for sending the course applications is 15th April 2008

COURSE WEBSITE

<http://minet.wordpress.com/events/trainingcourse2008>

CONTACTS

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REGISTRATION

Before proceeding with registration and hotel reservation the participant should wait for the notification of the acceptance of his application. For registration and hotel reservation, please fill the electronic forms available on: www.asapnet.it

