

# MEETING ON TOMOGRAPHY AND APPLICATIONS

POLITECNICO DI MILANO - MATHEMATICS DEPARTMENT

May 14-16, 2018

Monday, May 14

9:30-10:15 Registration

10:15-10:30 Opening

10:30 -11:30 OPENING LECTURE

Peter Gritzmann - *Technische Universität München*

**On Dynamic Discrete Tomography**

11:30 – 12:00 Coffee Break

12:00-12:30 Andreas Alpers - *Technische Universität München*

**Super-Resolution Imaging in Discrete Tomography**

12:30 -13:00 Nathanael Six - *University of Antwerp*

**Discrete reconstruction from polychromatic X-ray projection data**

13:00-14:30 Lunch Break

14:30-15:30 PLENARY LECTURE

Robert Tijdeman - *Leiden University*

**Algorithms for fast reconstruction in discrete tomography**

15:30-16:00 Coffee Break

16:00-16:30 Nicolas Normand - *Université de Nantes*

**Vandermonde-based tomography algorithms  
in periodic and non-periodic discrete spaces**

16:30-17:00 Lama Tarsissi - *Polytechnique Sophia Antipolis, Nice*

**New perspectives in the reconstruction of convex polyominoes  
from orthogonal projections**

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Tuesday, May 15

09:00-10:00 PLENARY LECTURE

Laurent Vuillon - *Université de Savoie*

**Convexity concepts for discrete tomography**

10:00-11:00 PLENARY LECTURE

Antal Nagy - *University of Szeged*

**Segmenting Head & Neck MR images**

11:00 -11:30 **Coffee Break**

11:30-12:00 Paolo Finotelli - *Politecnico di Milano*

**Introduction to the neuroscientific section**

12:00-12:45 Marina Bentivoglio - *Università di Verona*

**The challenge of brain structural connectivity**

12:45-14.30 **Lunch Break**

14:30-15:15 Gloria Menegaz - *Università di Verona*

**A multi-view perspective of neuroimaging**

15:15-16:00 Caroline Garcia Forlim - *University Medical Center Hamburg*

**Neuroimaging and Brain Networks**

16:00-16:30 **Coffee Break**

16:30-17:00 Alice Presenti - *University of Antwerp*

**Graph Model Simulation of Human Brain's Functional Activity**

17:00-17:30 Maria M Del Viva - *Università di Firenze*

**Role of the cost of plasticity in determining the features of fast vision in humans**

20:00 **SOCIAL DINNER**

**RISTORANTE "IL PAIOLO" - VIA G. G. FARA, 7**

**A TYPICAL DINNER**

**IN THE CENTER OF MILANO**



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Wednesday, May 16

9:30-10:30 PLENARY LECTURE

Samuli Siltanen - *University of Helsinki*

**Dynamic sparse X-ray tomography**

10:30-11:00 Coffee Break

11:00-11:30 Giulia Colacicco - *CWI Amsterdam*

**Challenges in adaptive acquisition of tomography data**

11:30-12:00 Alice Presenti - *University of Antwerp*

**A CAD projector for X-ray polychromatic projection-based inspection**

12:00-12:30 Nicola Vigano' - *CWI Amsterdam*

**A tomography approach for the quantitative scene reconstruction  
from light-field images**

12:30-13:00 Stefano Tebaldini - *Politecnico di Milano*

**Three-dimensional Radar imaging of distributed media**

13:00 FAREWELL LUNCH