International Conference on IMAGING25

September 22 – 25, 2025

Programme of September 22nd

Location: Aula Sironi, Department of Physics, building U2, University of Milano-Bicocca

Piazza della Scienza, 3 - 20126 Milano (Italy)

10.00 Introduction (Aula Sironi) Institutional greetings

10.15-11.00 Holé Clement (ESRF, France) Fluorescence and image registration

11.00-12.00 Nikolay Kardijlov (Helmholtz Centre Berlin for Materials and Energy, Germany) Neutron imaging data processing – basic principles, software tools and applications

12.00-14.30 Poster session and LUNCH

14.30-15.15 Hafiz Muhammad Fahad (Ludwig Maximilians University, Germany) Building AI solutions for Biomedical Imaging Challenges

15.20-16.00 Davide Tornotti (UNIMIB, Italy) Methods and Applications of Volumetric Data Analysis in Astrophysics

16.00-16.30 Alberto Bravin/Giulia Marcucci (UNIMIB, Italy) How to prepare a successful proposal for a Large-Scale Facility (X-rays, neutrons)

Closing of the session

LIST OF POSTERS (IMAGING25)

1. Jannis Ahlers, Monash University (AUS)
High-speed X-ray dark-field imaging via spectral information
2. Michela Ascolese, Milano-Bicocca University (IT)
First results of phase contrast microCT imaging with the Zeiss-Versa laboratory source
3. Federico Camponovo, INFN - Milano-Bicocca section (IT)
Explainability methods with X-CAM visualization in Jet Tagging
4. Simone Caputo, Milano-Bicocca University (IT)
Deep learning begins with segmentation: a method for brain vascular mapping in phase-contrast micro-CT
5. Matteo Cataldo, INFN - Milano-Bicocca Section (IT)
Compositional and morphological study of a Nuragic bronze figurine with neutron diffraction and neutron tomography
6. Maria Caterina Crocco, Universty of Calabria and STAR RI (IT)
Multilevel evaluation of PSELT in cardiovascular disease
7. Hafiz Muhammad Fahad, Ludwig Maximilians University (GER)
Patch-Based U-Net Segmentation of Human Brain Tissue in Synchrotron Nano-CT Imaging
8. Hafiz Muhammad Fahad, Ludwig Maximilians University (GER)
DAPHNE4NFDI: FAIR data workflow and solutions for the X-ray imaging and CT use case
9. Tero Hyvärinen, University of Oulu (FIN)
Automatic Exposure Control in Cone Beam Computed Tomography
10. Dinidu Prabhath Jyakody Arachchilage, University of Oulu (FIN)
A hybrid approach combining dual-energy decomposition and inpainting for metal artefact reduction in dentomaxillofacial CBCT
11. Werneri Lindberg, ETH Zürich (CH)
Adapting X-ray dark-field imaging for clinical practice: a path towards enhanced disease characterization in routine healthcare
12. Giusto Lo Bue, University of Pavia (IT)
Neutron tomography for non-destructive imaging of microplastics in bio-engineered marine habitats
13. Giulia Marcucci, Milano-Bicocca University (IT)
The INFN CHNet_BRONZE project: quantitative optimisation of advanced neutron imaging for archeometallurgical applications
14. Giulia Marcucci, Milano-Bicocca University (IT)
The normalisation workflow and post processing pipeline for neutron resonance transmission imaging at the INES beamline
15. Samuel Onnela, University of Oulu (FIN)
Signal-to-equivalent Thickness Calibration improves soft tissue contrast with diagnostic CBCT
16. Tahseen Sana, Milano-Bicocca University (IT)
Characterization of the performances of the Zeiss-Versa 610
17. Sobhan Sheikhi, Milano-Bicocca University (IT)
Evaluation of Therapeutic Strategies to Slow Down Neurodegeneration inExperimental Models of Spinocerebellar Ataxia Type 1 by Multiscale X-ray Phase-Contrast Micro-CT
18. Luisa Vigorelli, Milano-Bicocca University (IT)
Python-based software for X-ray phase contrast tomographic reconstruction in the framework of the PITCH project for Cultural Heritage analysis
19. Luisa Vigorelli, Milano-Bicocca University (IT)
High-resolution neutron tomography for the study of a golden filigree from the Chiaravalle Cross