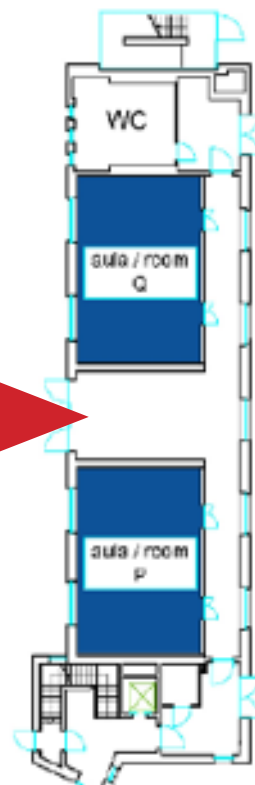# *** SIAM IS18 POSTER SESSIONS ****

## Palazzina B - Building B
## via B. Andreatta 8 -
## 0 Piano terra - Ground floor



## Posters from 1 to 20

| | |
|---|---|
| Efficient splitting strategies for structured illumination microscopy - *Emmanuel Soubies* | 1 |
| Identification and Analysis of Intranuclear Protein Patterns in Fluorescence Microscopy Cell Images - *Laura Antonelli* | 2 |
| Restoration of multispectral images based on the anisotropic diffusion - *Kumar Sanjeev* | 3 |
| A Neuromathematical Model for Geometrical Optical Illusions - *Benedetta Franceschiello* | 4 |
| Accurate discontinuous Galerkin schemes for seismic traveltimes and amplitudes in heterogeneous anisotropic media - *Le Bouteiller Philippe* | 5 |
| Anisotropic image osmosis filtering for visual computing - *Luca Calatroni* | 6 |
| Distances between Tensor Subspaces for Image Analysis - *Atsushi Imiya* | 7 |
| Morphing of Manifold-Valued Images inspired by Discrete Geodesics in Image Spaces - *Sebastian Neumayer* | 8 |
| Partial difference equations and stochastic games for graph signal processing - *Abderrahim Elmoataz* | 9 |
| 4D computed tomography of foot and ankle using spatio-temporal regularization - *Nargiza Djurabekova* | 10 |
| A model of a dynamic system for predicting neurological disease progression through longitudinal imaging - *Wee Keong Lim* | 11 |
| A graph-based framework for analysing temporal brain network connectivity on longitudinal imaging - *Wee Keong Lim* | 12 |
| Nonlinear diffraction tomography of predominantly forward-scattering objects - *Gregory Samelsohn* | 13 |
| Phase-constrained Magnetic Resonance Imaging as a Nonlinear Inverse Problem with a Rank Penalty - *H. Christian M. Holme* | 14 |
| Reconstruction algorithms for sub-second X-ray tomographic microscopy of liquid water dynamics in polymer electrolyte fuel cells - *Minna Bührer* | 15 |
| Simultaneous reconstruction and separation in a spectral CT framework - *Sandrine Anthoine* | 16 |
| Super-resolution image reconstruction for inexpensive MRI - *Merel de Leeuw den Bouter* | 17 |
| The nonlinear diffusion filtering methods for geodetic measurements - *Michal Kollár* | 18 |
| Variational image reconstruction from X-ray micro-tomography data with mixed noise - *George Papanikos* | 19 |
| Learning and Dimension Reduction in Medical Image Analysis - *Anna Breger* | 20 |

# Palazzina A - Building A
## via B. Andreatta 8

# 1 Primo piano - First floor

## Posters from 21 to 40



aula / room B

WC

aula / room C

aula / room D

## Posters from 41 to 45

| | |
|---|---|
| A New Feature Coherence-Penalized Dynamic Minimal Path Model for Tubularity Centerline Delineation - *Da Chen* | **41** |
| A new Monte Carlo software for simulating light transport in biological tissue - *Aleksi Leino* | **42** |
| A novel generative model to synthesize realistic training images - *Pierluigi Zama Ramirez* | **43** |
| A second order free discontinuity model for bituminous surfacing crack recovery, analysis of a nonlocal version of it and MPI implementation - *Carole Le Guyader* | **44** |
| Acoustic interface contrast imaging with a constant velocity assumption - *Joost van der Neut* | **45** |

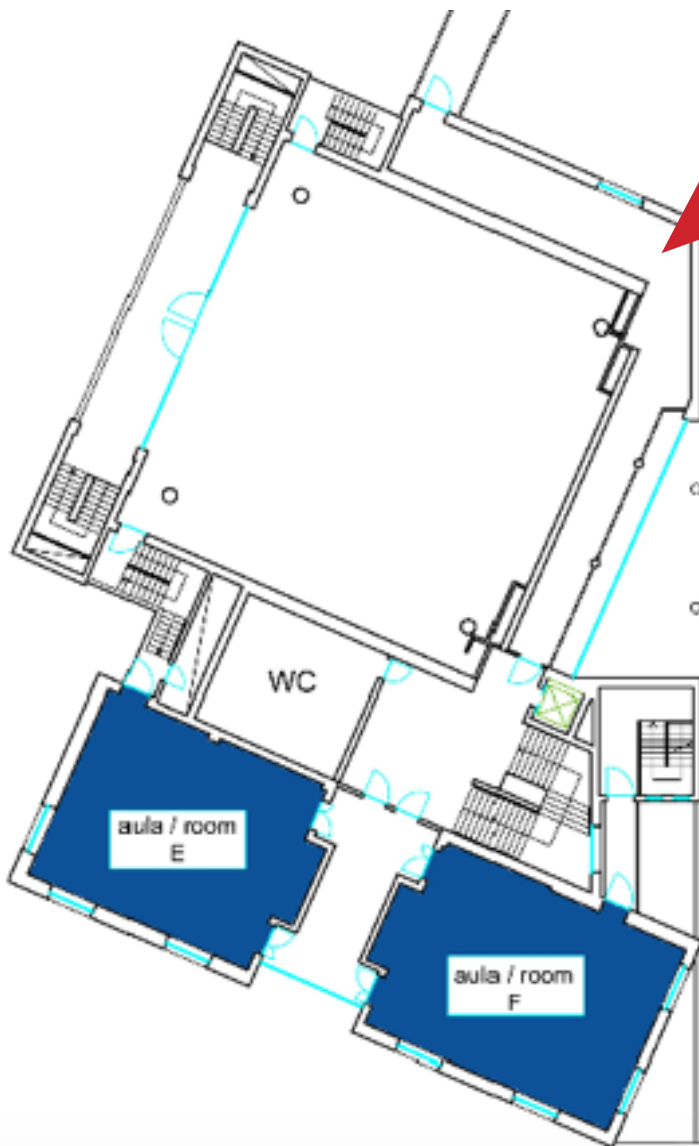| | |
|---|---|
| A fast minorization-maximization algorithm for the mixture-of-normals logit model: value of time estimates under crowding conditions in the NYC subway - *Prateek Bansal* | **21** |
| A rank-adaptive Riemannian optimization technique for hyperspectral image recovery - *Gennadij Heidel* **CANCELLED** | **22** |
| An Accelerated Newton's Method for Projections onto the l1-Ball - *Paul Rodriguez* | **23** |
| Anisotropic Space Variant regularizer in image restoration - *Monica Pragliola* | **24** |
| Convex Formulation for Discrete Tomography - *Ajinkya Kadu* | **25** |
| Edge detection with prior shapes based on Mumford-Shah model - *Yuying Shi* | **26** |
| Fractional Order Total Variational Based Model for Multiplicative Noise Removal - *Rizwan Rizwan* | **27** |
| L1 Patch-Based Image Partitioning Into Homogeneous Textured Regions- *Maria Oliver* | **28** |
| Mathematical morphology on tensor images for fiber enhancement - *Blusseau Samy* | **29** |
| Space-variant model for image segmentation over surfaces - *Martin Huska* | **30** |
| Total Variation Reconstruction from Quadratic Measurements - *Anastasia Zakharova* | **31** |
| Two Fast Nonoverlapping Domain Decomposition Methods for the Dual ROF Model - *Jongho Park* | **32** |
| A unified view of patch aggregation - *Saint-Dizier Alexandre* | **33** |
| A sequential Monte Carlo for astronomic imaging - *Federica Sciacchitano* | **34** |
| Bayesian full-waveform tomography of Ground Penetrating Radar data - *Jürg Hunziker* | **35** |
| Maximum Likelihood Imaging for Sensor Arrays - *Matthieu Simeoni* | **36** |
| Spot the difference for computers - *Vincent Vidal* | **37** |
| Auto-encoders applied to geometric shapes - *Alasdair Newson* | **38** |
| Wavelength and polarization multiplexed pinhole array for variable coded aperture - *Ariel Schwarz* | **39** |
| The 3D X-Ray CT as new way of the Scientific Dissemination concerning Cultural Heritage - *Franco Casali* | **40** |

# Palazzina A - Building A
## via B. Andreatta 8          2 Secondo piano - Second floor

**Posters from 46 to 67**

| | |
|---|---|
| Covering the Space of Tilts: Application to affine invariant image comparison - *Mariano Rodríguez Guerra* | **46** |
| Determinantal pixel processes and texture synthesis - *Claire Launay* | **47** |
| Heterogeneous geobodies retrieval in seismic images - *Pauline Le Bouteiller* | **48** |
| High Resolution DEM Building with SAR Interferometry and High Resolution optical Image - *Hadj Sahraoui Omar* | **49** |
| How to use mixture models on patches for solving image inverse problems - *Antoine Houdard* | **50** |
| Image Quality Control for Legacy JPEG Standard According to Importance of Target Regions - *Shun Aoki* | **51** |
| Imaging for High-Throughput Screening of Pluripotent Stem Cells - *Lucia Maddalena* | **52** |
| Joint denoising and decompression - *Mario Gonzalez* | **53** |
| Learning an optimization solver for a class of inverse problems - *Axel Ringh* | **54** |
| Learning to solve inverse problems using Wasserstein loss - *Jonas Adler* | **55** |
| Learned Primal-Dual Reconstruction - *Jonas Adler* | **56** |
| Milano Retinex Paths as Local Minima of an Energy Functional with Tunable Color and Spatial information - *Michela Lecca* | **57** |
| Motion Modeling of Solutions on the TLC Plate for Analyzing Carbohydrates by Using Image Capturing and Analysis - *Hiroshi Ijima* | **58** |
| Multiscale denoising of RAW images with precise estimation of noise in all scales - *Matias Tassano* | **59** |
| Multispectral Image Registration of Historical Artefacts - *Cerys Jones* | **60** |
| ~~Neighborhood filters and functional rearrangements - *Gonzalo Galiano*~~ **CANCELLED** | **61** |
| Patch based spatial redundancy analysis using a contrario methods - *Valentin De Bortoli* | **62** |
| Resolving nanomaterial properties at better than 50nm resolution in Raman spectroscopy - *Dominik J. Winterauer* | **63** |
| Satellite Imagery Reconstructions from Starfire Optical Range - *Lee Kann* | **64** |
| Scikit-Shape: Python toolbox for shape analysis and segmentation - *Gunay Dogan* | **65** |
| Source Localization by Spatially Variant Blind Deconvolution - *Pol del Aguila Pla* | **66** |
| Sparse Recovery Algorithms for 3D Imaging using Point Spread Function Engineering - *Chao Wang* | **67** |

WC

aula / room E

aula / room F