

**Computational approaches for technical imaging in cultural heritage
(7th IP4AI meeting) Programme
27-29th April 2022**

Wednesday 27th April

**Time, BST
(UTC +1)**

Speaker

Title

14:00-14:05 *Conference introduction*

Keynote 1

14:05-15:05

Jill Dunkerton

National Gallery, London

“Technical imaging and connoisseurship: investigating a collaboration between Botticelli and Filippino Lippi”

15:05-15:10

Short break

Oral Presentation Session 1

15:10-15:30

John K. Delaney

*National Gallery of Art,
Washington DC*

“An alternative approach to mapping pigments in paintings with hyperspectral reflectance image cubes using artificial intelligence” Tania Kleyhans, John K. Delaney, Roxanne Radpour, Catherine M. Schmidt Patterson & Kathryn A. Dooley

15:30-15:50

David Mills

*Queen Mary University of
London*

“Revealing the unreadable – digitisation without disruption” David Mills

15:50-16:10

Paolo Romano

CNR-ISPC

“New developments on simultaneous MA-XRD/MA-XRF imaging: instrumental setup and computational approaches for pigment-specific mapping of paintings” Francesco Paolo Romano, Costanza Miliani, Claudia Caliri, Claudia Fatuzzo, Danilo Pavone, Giulia Privitera, Dario Zappalà & Zdenek Preisler

16:10-16:30

Juan José Murillo Fuentes

University of Sevilla

“Crossings Segmentation in Plain Weaves for X-Rays of Canvases with Deep Learning” Antonio D. Bejarano, Juan José Murillo-Fuentes & Laura Alba-Carcelén

Poster & Demonstration Session 1

16:30-17:30

List of presenters to be posted soon

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<u>Thursday 28th April</u>		
Time, BST (UTC +1)	Speaker	Title
<u>Panel Discussion</u>		
14:00-14:55	Ingrid Daubechies <i>(moderator)</i> <i>Duke University</i> Jill Dunkerton <i>National Gallery, London</i> Ahmed Elgammal <i>Rutgers University</i> Robert G. Erdmann <i>Rijksmuseum/ University of Amsterdam</i> Haida Liang <i>Nottingham Trent University</i> Marc Walton <i>M+ Museum, Hong Kong/ Northwestern University</i>	The role of AI for art investigation
14:55-15:00	<i>Short break</i>	
<u>Keynote 2</u>		
15:00-16:00	Haida Liang <i>Nottingham Trent University</i>	“AI for DIGILAB: A Heritage Materials Research Infrastructure for Multimodal Spectral Imaging Data Processing”
<u>Oral Presentation Session 2</u>		
16:00-16:20	Marta Melchiorre <i>National Gallery, London</i> Sotiria Kogou <i>Nottingham Trent University</i>	“Application of a novel neural network approach to investigate the painting materials and technique in <i>The Adoration of the Kings</i> by Sandro Botticelli and Filippino Lippi” Marta Melchiorre Di Crescenzo, Sotiria Kogou, Luke Butler, Florence Liggins, Haida Liang & Catherine Higgitt
16:20-16:40	Niranjan Thanikachalam <i>Artmyn SA</i>	“Multimodal image change analysis for artwork monitoring” Niranjan Thanikachalam, Pierre-Antoine Héritier & Loïc Baboulaz
16:40-17:00	Matthias Alfeld <i>TU Delft</i>	“DataHandlerP: An open access software package for the analysis of spectroscopic imaging data” Matthias Alfeld & Luís Manuel de Almeida Nieto

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Friday 29th April

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Speaker

Title

Poster & Demonstration Session 2

13:30-14:30 *List of presenters to be posted soon*

Keynote 3

14:30-15:30	Marc Walton <i>M+ Museum, Hong Kong/ Northwestern University</i>	“Creating Images Worth More Than A Thousand Words: Computational Imaging for Cultural Heritage”
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15:30-15:35 *Short break*

Oral Presentation Session 3

15:35-15:55	Su Yan <i>Imperial College London</i>	“Automatic Algorithms for Deconvoluting Macro X-ray Fluorescence Data” Su Yan, Jun-Jie Huang, Herman Verinaz-Jadan, Nathan Daly, Catherine Higgitt & Pier Luigi Dragotti
15:55-16:15	Emeline Pouyet <i>CNRS, Sorbonne University</i>	“Artificial Intelligence for Pigment Classification Task in the Short-Wave Infrared Range” Emeline Pouyet, Tsveta Miteva, Neda Rohani & Laurence de Viguerie
16:15-16:35	Silvia Russo <i>HE-Arc CR, Neuchâtel</i>	“Monitoring metal soaps formation on painted metals: challenges in processing reflectance FTIR time-series chemical images in absence of sharp features” Silvia Russo, Laura Brambilla, Jean Baptiste Thomas & Edith Joseph
16:35-16:55	Patrice Abry <i>ENS Lyon</i>	“Multiscale anisotropic analysis for assessment of similarity between Arches papers in selected Matisse lithographs” Patrice Abry, Stéphane Roux, Paul Messier, Margaret Holben Ellis & Stéphane Jaffard

16:55-17:00 *Conference closing remarks*