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Acquisition and Processing

Session Chair: Tyler Bell, University of Iowa (United States)

12:30 – 13:35

12:30

Conference Introduction

12:35

3DIA-211

Investigation of demosaicing effect on digital image correlation method: A case study on paintings with natural texture [Presentation-Only], Athanasia Papanikolaou, Malgorzata Kujawska, and Piotr Garbat, Politechnika Warszawska (Poland)

12:55

3DIA-212

Pose estimation of teeth in pathological dental models, Maxime Chapuis^{1,2}, Mathieu Lafourcade¹, William Puech¹, Noura Faraj¹, and Gérard Guillerme²; ¹Université de Montpellier and ²Groupe Orqual (France)

13:15

3DIA-213

Segmentation in application to deformation analysis of cultural heritage surfaces, Sunita Saha and Robert Sitnik, Warsaw University of Technology (Poland)

Analysis and Compression

Session Chair: William Puech, Laboratory d'Informatique de Robotique et de Microelectronique de Montpellier (France)

13:50 – 14:50

13:50

3DIA-223

Scale-adaptive local intentional surface feature detection, Yujian Xu¹, Matthew Gaubatz², Stephen Pollard², Robert Ulichney¹, and Jan P. Allebach¹; ¹Purdue University and ²HP Labs (United States)

14:10

3DIA-224

Feature-driven 3D range geometry compression via spatially-aware depth encoding, Broderick S. Schwartz, Matthew G. Finley, and Tyler Bell, University of Iowa (United States)

14:30

3DIA-225

Quality analysis of point cloud coding solutions, Joao Prazeres^{1,2}, Manuela Pereira^{1,2}, and Antonio Pinheiro^{1,2}; ¹Universidade da Beira Interior (U.B.I.) and ²Instituto de Telecomunicacoes (Portugal)

Processing and Applications

Session Chair: Robert Sitnik, Warsaw University of Technology (Poland)

18:00 – 19:00

18:00

3DIA-235

Hand authentication from RGB-D video based on deep neural network, Ryogo Miyazaki¹, Kazuya Sasaki², Norimichi Tsumura¹, and Keita Hirai¹; ¹Chiba University and ²MagikEye (Japan)

18:20

3DIA-236

A 3D subtractive brush system for an immersive, multilayered archaeological map, Mike Yeates, Maxime Cordeil, and Tom Chandler, Monash University (Australia)

18:40

3DIA-237

Design of ghost-free aerial display by using prism and dihedral corner reflector array, Yuto Osada and Yue Bao, Tokyo City University (Japan)