Digital imaging techniques for the study of prehistoric rock art

Citation for published version:

Published In:
Digital Applications in Archaeology and Cultural Heritage

General rights
Copyright for the publications made accessible via the Edinburgh Research Explorer is retained by the author(s) and/or other copyright owners and it is a condition of accessing these publications that users recognise and abide by the legal requirements associated with these rights.

Take down policy
The University of Edinburgh has made every reasonable effort to ensure that Edinburgh Research Explorer content complies with UK legislation. If you believe that the public display of this file breaches copyright please contact openaccess@ed.ac.uk providing details, and we will remove access to the work immediately and investigate your claim.
Digital Applications in Archaeology and Cultural Heritage


Contents

Special Issue
Digital imaging techniques for the study of prehistoric rock art
Guest Editor: Guillaume Robin

Editorial by Guillaume Robin .......................................................... 35

RTI and the study of engraved rock art: A re-examination of the Iberian south-western stelae of Setefilla and Almadén de la Plata 2 (Seville, Spain) by Marta Díaz-Guardamino, Leonardo García Sanjuán, David Wheatley and Víctor Rodríguez Zamora .......................................................... 41

Digital image enhancement with DSstretch®: Is complexity always necessary for efficiency? by Jean-Loïc Le Quellec, Frédérique Duquesnoy and Claudia Defrasne .......................................................... 55

Digital image analysis based study, recording, and protection of painted rock art. Some Iberian experiences by Miguel Ángel Rogerio-Candelera .......................................................... 68

Evaluating conventional and advanced visible image enhancement solutions to produce digital tracings at el Carche rock art shelter by I. Domingo, B. Carrión, S. Blanco and J.L. Lerma .......................................................... 79

Combining photogrammetry and photographic enhancement techniques for the recording of megalithic art in north-west Iberia by Natalia Cortón Noya, Ángela López García and Fernando Carrera Ramírez .......................................................... 89

From 2D to 3D at macro- and microscopic scale in rock art studies by Hugues Plisson and Lydia V. Zotkina .......................................................... 102

From sketchbook to structure from motion: Recording prehistoric carvings in Ireland by Ken Williams and Elizabeth Shee Twohig .......................................................... 120

Recent improvements in photometric stereo for rock art 3D imaging by R. Dessì, C. Mannu, G. Rodriguez, G. Tanda and M. Vanzi .......................................................... 132

Contribution of 3D technologies to the analysis of form in late palaeolithic rock carvings: The case of the Roc-aux-Sorciers rock-shelter (Angles-sur-l’Anglin, France) by Camille Bourdier, Oscar Fuentes and Geneviève Pinçon .......................................................... 140

Image processing and visualisation of rock art laser scans from Loups’s Hill, County Durham by Kenneth Lymer .......................................................... 155

Methodological considerations of integrating portable digital technologies in the analysis and management of complex superimposed Californian pictographs: From spectroscopy and spectral imaging to 3-D scanning by David Robinson, Matthew J. Baker, Clare Bedford, Jennifer Perry, Michelle Wienhold, Julienne Bernard, Dan Reeves, Eleni Kotoula, Devlin Gandy and James Miles .......................................................... 166
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-scale 3D rock-art recording by Craig Alexander, Axel Pinz and Christian Reinbacher</td>
<td>181</td>
</tr>
<tr>
<td>Automated classification of petroglyphs by Markus Seidl, Ewald Wieser and Craig Alexander</td>
<td>196</td>
</tr>
<tr>
<td>Intuition and analysis in the recording, interpretation and public translation of Neolithic engraved signs in western France by Serge Cassen, Valentin Grimaud and Laurent Lescop</td>
<td>213</td>
</tr>
<tr>
<td>Digital technologies in context: Prehistoric engravings in the Northern Cape, South Africa by Silvia Tomášková</td>
<td>222</td>
</tr>
</tbody>
</table>