

Kostas Hatzigiannakis

LIST of Publications

ARTICLES IN SCIENTIFIC JOURNALS

1. "POLYGNOSIS": The development of a Thesaurus in an Educational Web Platform on optical and laser-based investigation methods for Cultural Heritage analysis and diagnosis", N. Platia, M. Chatzidakis, C. Doerr, L. Charami, Ch. Bekiari, K. Melessanaki, K. Hatzigiannakis, P. Pouli, *Heritage Science* (2017) 5:50, doi:10.1186/s40494-017-0163-0 (nothing)
2. "A method for the registration of spectral images of paintings and its evaluation", A. Zacharopoulos, K. Hatzigiannakis, P. Karamaoynas, V. M. Papadakis, M. Andrianakis, K. Melessanaki, X. Zabulis, *Journal of Cultural Heritage*, 29, 10-18 (2018); doi:10.1016/j.culher.2017.07.004. (POLITEIA)
3. "Photoacoustic imaging reveals hidden underdrawings in paintings", G.J. Tserevelakis, I. Vrouvaki, P. Siozos, K. Melessanaki, K.Hatzigiannakis, C. Fotakis, G. Zacharakis, *Scientific RepoRts*, 7: 747 (2017); doi:10.1038/s41598-017-00873-7.
4. "Complimentarity of digital holographic speckle pattern interferometry and simulated infrared thermography for Cultural Heritage structural diagnostic research", V. Tornari, M. Andrianakis, K. Hatzigiannakis, K. Kosma, V. Detalle, E. Bourguignon, D. Giovannacci, D. Brissaud, *International Journal of Engineering Research & Science* ,2, 11, 2395-6992 (2016), <http://www.ijer.com/Paper-November-2016/IJOER-NOV-2016-26.pdf>
5. "Preventive deformation measurements on cultural heritage materials based on non-contact surface response of model samples", V. Tornari, E. Bernikola, N. Tsigarida, M. Andriannakis, K. Hatzigiannakis, J. Leissner, *Studies in Conservation*, 60 (S1), S143-158 (2015); doi:10.1179/0039363015Z.000000000219.
6. "Micro-mapping of defect structural micro-morphology in the documentation of fresco wallpaintings", V. Tornari, E. Bernikola, E. Tsiranidou, K. Hatzigiannakis, M. Andrianakis, V. Detalle, J.L. Bodnar, *International journal of heritage in the digital era*, 2 (1) (2013); doi:10.1260/2047-4970.2.1.1.

INVITED CHAPTERS IN BOOKS

1. "Laser Tools in Archaeology and Conservation. How Far Can We Get?" A. Philippidis, P. Siozos, Z.E. Papiiaka, K. Melessanaki, K. Hatzigiannakis, M. Vakondiou, G. Manganas, K. Diamanti, A. Giakoumaki, D. Anglos, A. Sarris (Ed.), *Archaeopress Publishing Ltd, Oxford, 2015*, .pp. 261-269, <http://www.archaeopress.com/Public/displayProductDetail.asp?id={A29B6318-83A5-4B36-BF5B-50B1EFA29AB9}> ISBN 9781784911621

CONFERENCE PROCEEDINGS

1. "Studies on Azulejo glaze welding by means of laser irradiation", S. R. M. Pereira, K. Hatzigiannakis, E. Polychronaki, K. Melessanaki, P. Pouli, J. M. Mimoso, *GlazeArt2018, International Conference Glazed Ceramics in Cultural Heritage, Lisbon, October 29-30, 2018*, <http://glazeart2018.lnec.pt/>
2. "Real-time monitoring of laser assisted removal of shellac from wooden artefacts using Digital Holographic Speckle Pattern Interferometry" E. Bernikola, K. Melessanaki, K. Hatzigiannakis, P. Pouli and V. Tornari, *Lasers in the Conservation of Artworks*, eds D. Saunders, M. Strlic, C. Korenberg, N. Luxford and K. Birkholzer, *Archetype publications Ltd, London*, 52-59 (2013).

3. "A new portable Digital Holographic Speckle Pattern Interferometry system for artworks structural documentation", Kostas Hatzigiannakis, Eirini Bernikola, Vivi Tornari, Lasers in the Conservation of Artworks - LACONA IX proceedings, eds D. Saunders, M. Strlic, C. Korenberg, N. Luxford and K. Birkholzer, Archetype publications Ltd, London, 210-212 (2013).

In GREEK:

1. "Digital Speckle Pattern Interferometry portable system: Application in Optical Metrology and works of art", K. Hatzigiannakis, M. Andriannakis, E. Bernikola, V. Tornari submitted in 4th National Conference of Metrology 2012 (In Greek).

PATENTS

Restoration of vitreous surfaces using laser technology, application submitted to Patent Cooperation Treaty (PCT) on 15 March 2016 and then to European Patent Office (EPO) on 15 October 2018.