Analysis of a seventeenth-century panel painting by reflection terahertz time-domain imaging (THz-TDI) - DTU Orbit (07/09/2017)

Analysis of a seventeenth-century panel painting by reflection terahertz time-domain imaging (THz-TDI): Contribution of ultrafast optics to museum collections inspection

Terahertz time-domain imaging (THz-TDI) has been applied for nondestructive visualization of a hidden painting and other subsurface composition layers of a seventeenth-century panel painting belonging to the National Gallery of Denmark. Plan-type and cross-sectional scans realized by THz have been compared with images obtained by X-radiography, thus helping in a deep understanding of the strengths and limitations of this technique for art diagnostic purposes and in defining its rule among the other complementary investigation tools for nondestructive inspection of art pieces.

General information
State: Published
Organisations: Department of Photonics Engineering, Teraherts Technologies and Biophotonics, Statens Museum for Kunst
Authors: Dandolo, C. L. K. (Intern), Filttenborg, T. (Ekstern), Skou-Hansen, J. (Ekstern), Jepsen, P. U. (Intern)
Pages: 981-986
Publication date: 2015
Main Research Area: Technical/natural sciences

Publication information
Journal: Applied Physics A
Volume: 121
Issue number: 3
ISSN (Print): 0947-8396
Ratings:
BFI (2017): BFI-level 1
Web of Science (2017): Indexed Yes
BFI (2016): BFI-level 1
Scopus rating (2016): SJR 0.101 SNIP 0.12 CiteScore 1.52
Web of Science (2016): Indexed yes
BFI (2015): BFI-level 1
Scopus rating (2015): SJR 0.1 SNIP 0 CiteScore 1.38
Web of Science (2015): Indexed yes
BFI (2014): BFI-level 1
Scopus rating (2014): SJR 0.113 SNIP 0.002 CiteScore 1.74
Web of Science (2014): Indexed yes
BFI (2013): BFI-level 1
Scopus rating (2013): SJR 0.1 SNIP 0 CiteScore 1.75
ISI indexed (2013): ISI indexed yes
Web of Science (2013): Indexed yes
BFI (2012): BFI-level 1
Scopus rating (2012): SJR 0.1 SNIP 0 CiteScore 1.71
ISI indexed (2012): ISI indexed yes
Web of Science (2012): Indexed yes
BFI (2011): BFI-level 1
Scopus rating (2011): SJR 0.866 SNIP 1.129 CiteScore 1.77
ISI indexed (2011): ISI indexed yes
Web of Science (2011): Indexed yes
BFI (2010): BFI-level 1
Scopus rating (2010): SJR 1.064 SNIP 1.029
Web of Science (2010): Indexed yes
BFI (2009): BFI-level 1
Scopus rating (2009): SJR 1.016 SNIP 0.996
Web of Science (2009): Indexed yes
BFI (2008): BFI-level 1
Scopus rating (2008): SJR 1.204 SNIP 1.065
Web of Science (2008): Indexed yes
Scopus rating (2007): SJR 1.223 SNIP 1.08
Web of Science (2007): Indexed yes
Scopus rating (2006): SJR 1.286 SNIP 1.065
Web of Science (2006): Indexed yes
Scopus rating (2005): SJR 1.102 SNIP 0.934
Web of Science (2005): Indexed yes
Scopus rating (2004): SJR 1.101 SNIP 1.111
Web of Science (2004): Indexed yes
Scopus rating (2003): SJR 0.9 SNIP 0.887
Scopus rating (2002): SJR 1.473 SNIP 1.475
Web of Science (2002): Indexed yes
Scopus rating (2001): SJR 1.33 SNIP 1.079
Scopus rating (2000): SJR 1.456 SNIP 0.882
Scopus rating (1999): SJR 1.515 SNIP 1.068
Original language: English
DOIs: 10.1007/s00339-015-9303-0
Source: PublicationPreSubmission
Source-ID: 112200927
Publication: Research - peer-review › Journal article – Annual report year: 2015