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(56) References cited:

- **OERTEL C ET AL: "Identification of Objects-of-Interest in X-Ray Images", APPLIED IMAGERY AND PATTERN RECOGNITION WORKSHOP, 2006. AIPR 2006. 35T H IEEE, IEEE, PI, 11 October 2006 (2006-10-11), pages 17, XP031333059, ISBN: 978-0-7695-2739-0**
- **NERCESSIAN S ET AL: "Automatic Detection of Potential Threat Objects in X-ray Luggage Scan Images", TECHNOLOGIES FOR HOMELAND SECURITY, 2008 IEEE CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 12 May 2008 (2008-05-12), pages 504 - 509, XP031266648, ISBN: 978-1-4244-1977-7**
- **DOMINGO MERY ET AL: "Automated Object Recognition in Baggage Screening using Multiple X-ray Views", 1 January 2013 (2013-01-01), XP055200032, Retrieved from the Internet <URL:http://web.ing.puc.cl/~dmery/Prints/Conferences/International/2013-NDT-Telford.pdf> [retrieved on 20150703]**

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- LUDWIG SCHMIDT-HACKENBERG ET AL: "Visual cortex inspired features for object detection in X-ray images", PATTERN RECOGNITION (ICPR), 2012 21ST INTERNATIONAL CONFERENCE ON, IEEE, 11 November 2012 (2012-11-11), pages 2573 - 2576, XP032329878, ISBN: 978-1-4673-2216-4
- FLITTON GREG ET AL: "A comparison of 3D interest point descriptors with application to airport baggage object detection in complex CT imagery", PATTERN RECOGNITION, ELSEVIER, GB, vol. 46, no. 9, 16 February 2013 (2013-02-16), pages 2420 - 2436, XP028582176, ISSN: 0031-3203, DOI: 10.1016/J.PATCOG.2013.02.008
- "Lecture Notes in Computer Science: Proceedings of the CAIP 2011", vol. 6854, 29 August 2011, COMPUTER ANALYSIS OF IMAGES AND PATTERNS, SPRINGER BERLIN HEIDELBERG, BERLIN, HEIDELBERG, PAGE(S) 360 - 368, Berlin, Germany, ISBN: 978-3-642-23671-6, article MUHAMMET BASTAN ET AL.: "Visual Words on Baggage X-Ray Images", pages: 360 - 368, XP019161534
- D MERY: "Computer vision technology for X-ray testing", INSIGHT - NON-DESTRUCTIVE TESTING AND CONDITION MONITORING, vol. 56, no. 3, 1 March 2014 (2014-03-01), pages 147 - 155, XP055200024, ISSN: 1354-2575, DOI: 10.1784/insi.2014.56.3.147
- DUAN X ET AL: "X-ray cargo container inspection system with few-view projection imaging", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A: ACCELERATORS, SPECTROMETERS, DETECTORS, AND ASSOCIATED EQUIPMENT, ELSEVIER BV * NORTH-HOLLAND, NL, vol. 598, no. 2, 11 January 2009 (2009-01-11), pages 439 - 444, XP025800949, ISSN: 0168-9002, [retrieved on 20081010], DOI: 10.1016/J.NIMA.2008.08.151