

Selected published and presented scientific papers

1. X-RAY RADIOGRAPHIC STUDY OF SOME PANEL PAINTING ICONS FROM THE BEGINNING OF THE XX-th CENTURY, *International Journal of Conservation Science*, ISSN 2067-533X, Volume 2, Issue 3, July-September 2011, 179-183; <http://www.ijcs.uaic.ro/pub/IJCS-11-16-Emandi.pdf>
2. A DEDICATED ON-BOARD DUAL-ENERGY COMPUTER TOMOGRAPHY, *Journal of Nondestructive Evaluation* (Springer), Volume: 30, Issue: 3, Pages: 164-171, DOI: 10.1007/s10921-011-0104-x, June 2011; Mihai lovea, Marian Neagu, Octavian G. Dului, Gheorghe Oaie, Stefan Szobotka, Gabriela Mateiasi. <http://www.springerlink.com/content/bpx2mn784r7k5h71/>
3. NEW PORTABLE AND AUTONOMOUS DUAL ENERGY X-RAY SYSTEM FOR NDT AND SECURITY APPLICATIONS, International Symposium on Digital Industrial Radiology and Computed Tomography, June 20 – 22, 2011, Berlin, Germany; M. lovea, G. Mateiasi, M. Neagu, O.G. Dului;
4. PERFORMANCES COMPARISON BETWEEN A 2D FLAT PANEL X-RAY DETECTOR AND A VIRTUAL ONE BASED ON LINEAR ARRAY X-RAY DETECTOR TRANSLATION TECHNIQUE, International Symposium on Digital Industrial Radiology and Computed Tomography, June 20 – 22, 2011, Berlin, Germany; M. lovea, I. Tiseanu, T. Craciunescu, M. Neagu, G. Mateiasi;
5. PORTABLE AND AUTONOMOUS X-RAY EQUIPMENT FOR IN-SITU THREAT MATERIALS IDENTIFICATION BY EFFECTIVE ATOMIC NUMBER HIGH-ACCURACY MEASUREMENT, *SPIE 2011 Defence, Security & Sensing Conference*, April 2011, Orlando - Florida USA, M. lovea, G. Mateiasi, M. Neagu, O.G. Dului (published in Proc. of SPIE Vol 8017 801713-1; DOI: 10.1117/12.883666) http://spie.org/x648.html?product_id=883666 ;
6. COMBINED X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR EXPLOSIVES DETECTION, *Materials Evaluation*, vol 67, Issue:12, pg. 1343-1349, December 2009, M. lovea, G. Mateiasi, O.G. Dului, M. Neagu and M. Mangu. <http://www.asnt.org/publications/materialseval/materialseval.htm>
7. DUAL ENERGY X-RAY COMPUTER AXIAL TOMOGRAPHY AND DIGITAL RADIOGRAPHY INVESTIGATION OF CORES AND OTHER OBJECTS OF GEOLOGICAL INTEREST; 2008 *Engineering Geology*, Volume:103, Issue: 3-4, Pages:119-126, DOI: 10.1016/j.enggeo.2008.06.018, M. lovea, G. Oaie, C. Ricman, G. Mateiasi, M. Neagu, S. Szobotka and O.G. Dului;
8. <http://www.sciencedirect.com/science/article/pii/S0013795208001713>
9. PORTABLE AND AUTONOMOUS X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY EQUIPMENT FOR SECURITY AND NDT APPLICATION, *American Society for Non-destructive Testing Fall Conference 2009 Columbus OHIO*, 16-18 October 2009, M. lovea, M. Neagu, O. Dului, G. Mateiasi, M. Mangu (abstract);
10. COMPLEX STUDY OF OXIGENATED and ANOXIC SEDIMENTS OF THE BLACK SEA ZONES, Faculty of Physics General Scientific Seminar, University of Bucharest, 25th November 2009, Bucharest, Romania O.G. DULIU, M. IOVEA, M. NEAGU, G. OAIE, S.A. SZOBOTKA, C. CRISTACHE, M. TOMA, O.A. CULICOV, M.V. FRONTASYEVA (invited paper);
11. VISUALIZATION, ANALYSIS AND MATERILAS IDENTIFICATION TECHNIQUES IN X_RAY DUAL_ENERGY RADIOSCOPY AND TOMOGRAPHY FOR SECURITY AND NDT APPLICATION, *Institute of Atomic Physics Seminar, 26th June 2009 (invited paper)*; M. lovea; http://www.ifa-mg.ro/seminarii/26_iunie_2009/Mihai_IOVEA-Seminar_IFA_26Iunie2009.pdf (in Romanian language)
12. PRELIMINARY EXPERIMENTS OF SINGLE X-RAY VIEW CATHETER 3D LOCALIZATION ALGORITHM FOR TARGETED STEM CELL INJECTIONS, SPIE Medical Imaging Conference, 8-12 February 2009, Florida; Proc. SPIE 7261, 72611Y (2009); doi:10.1117/12.811036; M. lovea, J.Creed, E. Perin; M. Neagu, G. Mateiasi. http://spie.org/x648.html?product_id=811036

13. X-RAY MICRO-TOMOGRAPHY AS A TOOL FOR QUANTITATIVE CHARACTERIZATION OF ADVANCED MATERIALS MANUFACTURING PROCESSES, *Advanced Materials Research* Vol 47-50 (2008), 698-701, Ion Tiseanu, Teddy Craciunescu, M. Iovea; <http://www.scientific.net/0-87849-378-6/698/>
14. DUAL-ENERGY COMPUTED TOMOGRAPHY AND DIGITAL RADIOGRAPHY: VALUABLE METHODS IN INVESTIGATING UNCONSOLIDATED SEDIMENTS, *International Seminar on Natural Hazards in the Marine Area*, 28-29 July 2008, Bucharest, Romania; Dului O., Iovea M., Oaie Gh., Neagu M., Szobotka St., Mateiasi G.
15. MATERIALS MICROANALYSIS TECHNIQUE BY DUAL-ENERGY X-RAY TOMOGRAPHY AND RADIOSCOPY, The British Institute of Non-Destructive Testing *NDT 2008 Conference*, 16-18 September 2008, Cheshire - UK; M. Iovea, O.Dului, G.Mateiasi, M. Neagu, M. Mangu; Ion Tiseanu, Teddy Craciunescu
16. COMBINED X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR EXPLOSIVES DETECTION, *ASNT Fall Conference 2008*, 10-14 November 2008, Charleston, South Carolina-USA; M. Iovea, G.Mateiasi, O.Dului, M. Neagu, M. Mangu
17. STUDIUL INTERDISCIPLINAR AL ECOSISTEMELOR SEMIÎNCHISE (LACURI ALPINE SI VULCANICE) IN VEDEREA STABILIRII NIVELULUI DE REFERINTA PENTRU APRECIEREA IMPACTULUI FACTORULUI ANTROPIC: LACURILE ALPINE DIN MASIVUL FAGARAS SI LACUL SFÂNTA ANA, *Geo-Eco-Marina* 14, supliment nr. 1, 2008, p.181 – 185; Dului O., Brustur T., Szobotka S., Oaie G., Ricman C., Alexe V., Iovea M., Hodorozea S. ;
18. PRELIMINARY EXPERIMENTS FOR X-RAY DUAL-ENERGY MICRO-TOMOGRAPHY QUANTITATIVE ANALYSIS, *X-Ray Micro Imaging of Materials, Devices and Organisms IEEE Conference*, 22-24 October 2008 Dresden, Germany
19. COMBINED X-RAY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR SEDIMENTARY CORES AND MINERALS, *International Conference DEFEKTOSKOPIE 2008*, 4-6.11.2008, Brno - Czech Republic <http://www.ndt.net/article/defektoskopie2008/papers/324.pdf>
20. MICRO AND DUAL-ENERGY X-RAY COMPUTED TOMOGRAPHY INVESTIGATION OF SOME SOUTH CARPATHIANS METAMORPHIC ROCKS, *International Geological Congress OSLO 2008*, August 6-14th August 2008, O. Dului, E. Negulescu, M. Iovea, I. Tiseanu, A. Dobrescu
21. X-ray micro-tomography as a tool for quantitative characterization of advanced materials manufacturing processes, *International Conference on Multifunctional Materials and Structures*; 28-31 July 2008, Hong Kong; published in *Advanced Materials Research* Vol 47-50 (2008), pp 698-701; I. Tiseanu, T. Craciunescu, M. Iovea <http://www.scientific.net/0-87849-378-6/698/>
22. DEVELOPMENT OF NEW X-RAY RADIOSCOPY & TOMOGRAPHY EQUIPMENT FOR NDT ANALYSIS; *CD Proceedings of the 4th International Conference on NDT, Chania, Crete - Greece*, 11-14 October 2007; M. Iovea, G. Mateiasi, M. Neagu, V. Georgiou, P. Tsagkari, A. Antonakakis; <http://www.ndt.net/article/hsndt2007/files/IOVEAMihai.pdf>
23. High accuracy X-Ray Dual-energy experiments and non-rotational Tomography algorithm for explosives detection technique in luggage control - *CD Proceedings of the International Symposium on Digital Industrial Radiology and Computed Tomography - Lyon*, June 25-27 2007; Mihai IOVEA, Gabriela MATEIASI, Marian NEAGU; Octavian DULIU <http://www.ndt.net/article/dir2007/papers/16.pdf>
24. On ship Drilling cores deDicated dual-energy X-Ray Tomography/Radisocopy equipment- *CD Proceedings of the International Symposium on Digital industrial Radiology and Computed tomography - Lyon*, June 25-27 2007; Mihai IOVEA, Gabriela MATEIASI, Marian NEAGU; Octavian DULIU, Gheorghe OAIE <http://www.ndt.net/article/dir2007/papers/p5.pdf>
25. Dual energy computed tomography and digital radiography investigation of black sea unconsolidated sediments, *The 2nd International Conference on the Geology of the Tethys*, March 2007, Cairo University, Cairo, Egypt (abstract) O.G. DULIU, M. IOVEA, M NEAGU, G. OAIE, G. MATEIASI
26. COMBINED 3D TOMOGRAPHY AND X-RAY FLUORESCENCE FOR CRYSTALLINE HOST ROCK ANALYSIS, *FUNMIG Workshop*, Nov. 2006, I. Tiseanu, T Craciunescu, M. Iovea
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- Romanian Institute Of Geology Conference 2006*, 74 SPECIAL ISSUE: 52 - 54; O.G. Dului, M. lovea, M. Neagu, G. Oaie, C. Ricman
28. AN ON-BOARD DUAL-ENERGY X - RAY COMPUTER TOMOGRAPH: PRELIMINARY EXPERIMENTS AND RESULTS, *The XXth International Sedimentology Conference*, August 2006, Fukuoka, Japan ; M. lovea, G. Oaie, O.G. Dului, M. Neagu, S. Szobotka
 29. Pure Translational Tomography - a Non-Rotational Approach for Tomographic Reconstruction - Tu.1.4.1; *CD Proceedings of the 9th European Conference on NDT - ECNDT Berlin September 2006 - CD-ROM*; M.lovea, G. Mateiasi, M. Neagu <http://www.ndt.net/article/ecndt2006/doc/Tu.1.4.2.pdf>
 30. Dual Energy Computed Tomography and Digital Radiography investigation of Organic and Inorganic Materials" - P44; *CD Proceedings of the 9th European Conference on NDT - ECNDT Berlin September 2006 - CD-ROM*; M.lovea, G. Mateiasi, M. Neagu O. Dului <http://www.ndt.net/article/ecndt2006/doc/P44.pdf>
 31. Dual-Energy Tomography and some of its application; *CT DAY Conference at University of Applied Sciences Wels - Austria* , 19 september 2006; M. lovea ;
 32. DUAL-ENERGY DIGITAL RADIOGRAPHY AND COMPUTER TOMOGRAPHY APPLICATIONS IN GEOSCIENCES, *The 4th International Colloquium on Mathematics in Engineering and Numerical Physics* (invited paper), 6-8 October 2006, Bucharest, Romania; M. IOVEA, O.G. DULIU, G. OAIE, M. NEAGU, C. RICMAN, G. MATEIASI
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 35. DIGITAL RADIOGRAPHY AND X-RAY COMPUTER TOMOGRAPHY INVESTIGATIONS OF UNCONSOLIDATED GEOLOGICAL SAMPLES (DANUBE RIVER, DANUBE DELTA AND BLACK SEA SEDIMENTS), *European Geoscience Union General Assembly, April 2006, Viena, Austria* (abstract: Geophysical Research Abstracts) 8, 03165, 2006 - M. lovea, G. Oaie, O.G. Dului, M. Neagu, G. Mateiasi <http://www.cosis.net/abstracts/EGU06/03165/EGU06-J-03165.pdf>
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