

Selected published and presented scientific papers

- 1. PORTABLE LOW-COST FLAT-PANEL DETECTORS FOR REAL-TIME DIGITAL RADIOGRAPHY**, 7th International symposium on NDT in aerospace, Bremen, Germany, 16-18 November, 2015, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Ioana POROSNICU, Elena ANGHELUTA, (paper accepted);
- 2. ASPECTS REGARDING NON-DESTRUCTIVE HIGH-RESOLUTION X-RAY IMAGING IN INDUSTRIAL DIGITAL RADIOGRAPHY**, Asociatia romana de examinari nedistructive, Revista *Examinari nedistructive*, Nr. 1(3), 2015, pag. 13-23 (in Romanian language);
- 3. GAMMA BEAM INDUSTRIAL APPLICATIONS AT ELI-NP**, The 2015 International Conference on Applications and Nuclear Techniques, Crete, Greece (June 14-20, 2015), G. Suliman, V. Iancu, C. A. Ur, M. Iovea, I. Daito, and H. Ohgaki; <http://www.eli-np.ro/indico/getFile.py/access?contribId=17&resId=0&materialId=slides&confId=22>
- 4. SIMULATION STUDY ON COMPUTER TOMOGRAPHY IMAGING ON NUCLEAR DISTRIBUTION BY QUASI MONOENERGETIC GAMMA RAYS WITH NUCLEAR RESONANCE FLUORESCENCE: CASE STUDY FOR ELI-NP APPLICATION**, 12th Eco-Energy and Materials Science and Engineering Symposium, Krabi, Thailand, June 11-14, 2015, I. Daito, H. Ohgaki, G. Suliman, V. Iancu, C. A. Ur, M. Iovea;
- 5. AN X-RAY IMAGING SOLUTION FOR GREEN AND SINTERED PM PARTS-NDT CONTROL**, EURO PM Congress - EMPA 2014, Salzburg AUSTRIA, 21-24 September 2014, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan CLARKE, Malini Vieyra, Ian NICHOLSON;
- 6. TIME DELAY INTEGRATION DETECTOR BASED SOLUTION FOR INDUSTRIAL X-RAY NDT INSPECTION**, 11th European Conference on NDT, Prague, October 6-10, 2014, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan L. CLARKE, Malini VIEYRA, Ian NICHOLSON;
http://www.ndt.net/events/ECNDT2014/app/content/Paper/35_lovea.pdf
- 7. THREAT LIQUID IDENTIFICATION IN HAND-HELD BAGGAGE**, The Third International Conference on Image Formation in X-Ray Computed Tomography, June 22-25, 2014, Salt Lake City, Utah, USA, Conf. Proceedings pg. 117-121, Sebastian Faby, Marcus Brehm, Michael Knaup, Keith Powell, Mohammed Ayoub, Benjamin Cantwell, Ian Radley, Mihai Iovea and Marc Kachelrieß;
http://www.dkfz.de/en/medphysrad/workinggroups/ct/ct_conference_contributions/ThreatLiquidIdentification_KromekDKFZ.pdf

8. PRODUCTION OF FERROUS PM-PARTS FOR CALIBRATION AND DEMONSTRATION OF TYPICAL DEFECT DETECTION PERFORMANCE OF IN-LINE X-RAY DIGITAL RADIOGRAPHY EQUIPMENT, European Powder Metallurgy Association EMPA 2013, 15-18 September 2013, Gothenburg, Sweden, Proceedings Volume 2, Session 27: Non Destructive Testing, pp.169 – 174, ISBN 978-1-899072-42, Christian Gierl-Mayer Mohammad Momeni, Herbert Danninger, Mihai lovea, G Mateiasi, A Clarke, I. Nicholson; <http://www.epma.com/publications/euro-pm-abstracts-proceedings/abstracts-individual-paper-downloads/product/ep13042>

9. PM PARTS FAST IN-LINE X-RAY DIGITAL RADIOGRAPHY, European Powder Metallurgy Association EMPA 2013, 15-18 September 2013, Gothenburg, Sweden, Proceedings Volume 2, Session 27: Non Destructive Testing, pp.187 – 192, ISBN 978-1-899072-42, Mihai lovea, Marian Neagu, B. Stefanescu, Gabriela Mateiasi, Mathew Amos, Ian Nicholson, Maxim Ponomarev; <http://www.epma.com/publications/euro-pm-abstracts-proceedings/abstracts-individual-paper-downloads/product/ep13271>

10. A DEFECT DETECTION AND CLASSIFICATION SYSTEM FOR AUTOMATIC ANALYSIS OF DIGITAL RADIOGRAPHY IMAGES OF POWDER METALLURGY PARTS; European Powder Metallurgy Association 2013, 15-18 September, Gothenburg, Sweden; Proceedings Volume 2, Session 27: Non Destructive Testing, pp.181-186, ISBN 978-1-899072-42-2; Maxim Ponomarev; Tat-Hean Gan; CemSelcuk; Mathew Amos; Ian Nicholson; Mihai lovea, Marian Neagu;

11. THREAT LIQUID IDENTIFICATION IN HAND-HELD BAGGAGE, 2013 IEEE Nuclear Science Symposium and Medical Imaging Conference (2013 NSS/MIC); Mihai lovea, Marcus Brehm, Sebastian Faby, Michael Knaup, Marc Kachelrieß, Ben Cantwell, Xun Wang, Ian Radley, Mohammed Ayoub, Keith Powell; http://www.dkfz.de/en/medphysrad/workinggroups/ct/ct_conference_contributions/ThreatLiquidIdentification_KromekDKFZ.pdf

12. ON THE HEAVY ELEMENTS CONTENT OF SEDIMENTS AND ROCKS FROM TWO SEMICLOSED ECOSYSTEMS: PROGLACIAL LAKE BÂLEA (FĂGĂRAȘ MOUNTAINS) AND CRATER LAKE ST. ANA (HARGHITA MOUNTAINS), Physics of Particles and Nuclei 01/2013; 10(5):469–475. DOI: 10.1134/S1547477113050087; O.G. Dului; S.I. Lyapunov, A.V. Gorbunov, C. Ricman, T. Brustur, M.V. Frontasyeva, O.A. Culicov and M. lovea [https://www.researchgate.net/publication/235433915_On_the_heavy_elements_content_of_sediments_and_rocks_from_two_semiclosed_ecosystems_proglacial_lake_Blea_\(Fgra_Mountains\)_and_crater_lake_st._Ana_\(Harghita_Mountains\)](https://www.researchgate.net/publication/235433915_On_the_heavy_elements_content_of_sediments_and_rocks_from_two_semiclosed_ecosystems_proglacial_lake_Blea_(Fgra_Mountains)_and_crater_lake_st._Ana_(Harghita_Mountains))

13. PRELIMINARY NDT INVESTIGATION OF SINTERED POWDER METALLURGY PARTS BY HIGH-RESOLUTION TDI BASED X-RAY DIGITAL RADIOGRAPHY, Powder Metallurgy European Congress, 2013 September 16-19, Basel, Switzerland; Mihai IOVEA, Marian

NEAGU, Gabriela MATEIASI; Harshad V. HALAI, Mathew AMOS; Maxim PONOMAREV, Vassilis KAPPATOS, Cem SELCUK, Tat-Hean GAN; Christian GIERL, Mohammad MOMENI; Powder Metallurgy European Proceedings, Vol.1, p.145-150; <http://www.epma.com/publications/euro-pm-abstracts-proceedings/abstracts-individual-paper-downloads/product/ep12509>

14. DEVELOPMENT OF A DIGITAL RADIOGRAPHIC INSPECTION TECHNIQUE FOR PRODUCTION FRIENDLY QUALITY ASSESSMENT OF POWDER METALLURGY PARTS; Powder Metallurgy European Congress, September 16-19, Basel, Switzerland; Maxim G Ponomarev, Vassilis Kappatos, Cem Selcuk, Tat-Hean Gan, Mathew Amos, Harshad Halai Christian Gierl, Mihai lovea; Powder Metallurgy Journal - Vol. 56, No. 2, pp 92-95, 2013; <http://www.epma.com/publications/euro-pm-abstracts-proceedings/abstracts-individual-paper-downloads/product/ep12508>

15. 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>

16. A DEDICATED ON-BOARD DUAL-ENERGY COMPUTER TOMOGRAPH, 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/>

17. 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;

18. 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;

19. 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)

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21. 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. Iovea, G. Oaie, C. Ricman, G. Mateiasi, M. Neagu, S. Szobotka and O.G. Dului; http://www.researchgate.net/publication/234839799_Dual-energy_X-ray_computer_axial_tomography_and_digital_radiography_investigation_of_cores_and_other_objects_of_geological_interest

22. 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. Iovea, M. Neagu, O. Dului, G. Mateiasi, M. Mangu;

23. COMPLEX STUDY OF OXYGENATED 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. OAIIE, S.A. SZOBOTKA, C. CRISTACHE, M. TOMA, O.A. CULICOV, M.V. FRONTASYEVA;

24. VISUALIZATION, ANALYSIS AND MATERIALS 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. Iovea;

25. 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. Iovea, J. Creed, E. Perin; M. Neagu, G. Mateiasi; http://spie.org/x648.html?product_id=811036

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Research Vol 47-50 (2008), 698-701, Ion Tiseanu, Teddy Craciunescu, M. lovea; <http://www.scientific.net/0-87849-378-6/698/>

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29. 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. lovea, G.Mateiasi, O.Dului, M. Neagu, M. Mangu; https://www.researchgate.net/publication/236169163_Combined_X-ray_dual-energy_radioscopy_and_Tomography_analysis_for_explosives_detection

30. 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 SFÎNTA ANA, Geo-Eco-Marina 14, supliment nr. 1, 2008, p.181 – 185; Dului O., Brustur T., Szobotka S., Oaie G., Ricman C., Alexe V., lovea M., Hodorozea S. ;

31. 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

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33. 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. lovea, I. Tiseanu, A. Dobrescu; https://www.researchgate.net/publication/261925277_Micro-_and_dual-energy_X-ray_computed_tomography_investigation_on_some_South_Carpathians_metamorphic_rocks

- 34. 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.ad-astra.ro/research/view_publication.php?publication_id=5970&lang=en
- 35. DEVELOPMENT OF NEW X-RAY RADIOLOGY & 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>
- 36. HIGH ACCURACY X-RAY DUAL-ENERGY EXPERIMENTS AND NON-RATIONAL 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>
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- 38. 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
- 39. COMBINED 3D TOMOGRAPHY AND X-RAY FLUORESCENCE FOR CRYSTALLINE HOST ROCK ANALYSIS**, FUNMIG Workshop, Nov. 2006, I. Tiseanu, T. Craciunescu, M. Iovea;
- 40. DUAL-ENERGY COMPUTER TOMOGRAPHY AND DIGITAL RADIOGRAPHY INVESTIGATION OF METAMORPHIC ROCKS AND UNCONSOLIDATED SEDIMENTS**; Romanian Institute of Geology Conference 2006, 74 SPECIAL ISSUE: 52 - 54; O.G. Dului, M. Iovea, M. Neagu, G. Oaie, C. Ricman;
- 41. AN ON-BOARD DUAL-ENERGY X - RAY COMPUTER TOMOGRAPH: PRELIMINARY EXPERIMENTS AND RESULTS**, The XXth International Sedimentology Conference, August 2006, Fukuoka, Japan; M. Iovea, G. Oaie, O.G. Dului, M. Neagu, S. Szobotka;

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48. 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. Iovea, G. Oaie, O.G. Dului, M. Neagu, G. Mateiasi; <http://www.cosis.net/abstracts/EGU06/03165/EGU06-J-03165.pdf>

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53. TOMOGRAMS RECONSTRUCTION ALGORITHM FOR X-RAY INDUSTRIAL TOMOGRAPHY APPLICATION; M. Iovea, G. Mateiasi, V.Georgiou, G. Samoilis, 4th National Conference of HSNT and 2nd Balkan Conference of BSNDT, Athens 2nd of November, 2002;

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