

Curriculum Vitae

Mihai IOVEA

EDUCATION

- 1999 Postdoctoral position with The Johns Hopkins University - Baltimore, Maryland - USA; Department of Physics and Astronomy, Plasma Spectroscopy Group
- 1997 Ph.D. in Physics, The Institute for Atomic Physics, Bucharest.
Thesis: "Study of Physical Mechanisms in Computerized Tomography"
- 1982 M.Sc. Engineering in Physics, Measurements and Control Specialty, Physics University of Bucharest, Romania
- 1980 B.Sc. Technology Physics, Physics University of Bucharest , Romania

WORK EXPERIENCE

Main experience

- Basic and applied research in 2D and 3D X and Gamma ray Industrial Computerized Tomography and Radioscopy.
 - Research, design and prototypes development of various types of computerized X and gamma rays Industrial Tomography and Radioscopy Systems, with applications in NDT and Security domains;
 - R&D for security screening in X-Ray radioscopy and tomography by using dual-multi energy, backscattering and diffraction techniques;
 - R&D of specialized algorithms and software packages for data acquisition, 2D & 3D tomograms reconstruction, data analysis and visualization in Tomography and Radioscopy;
 - Research & Development of dual/multi energy technique for measuring Zeff (Atomic effective number) and Density values in X and gamma ray Tomography and Radioscopy, with application in Security, Cores and minerals analysis, Industrial NDT, etc.
 - Fast in-line industrial X-Ray applications development based on microfocus X-ray source, Flat Panel or TDI type X-ray detectors.
- Fast prototyping and R & D equipment design and development
- Software development using *LabView*,[™] NI language
- R & D companies management for:
 - NDT and Computerized Technologies Laboratory as Head of Department for more than 10 years;
 - National R&D Institute for Electrical Engineering as Scientific Director for 2 years,
 - ACCENT PRO 2000 Ltd as General Manager for the last 14 years until present.
- European Community FP7 Projects Scientific Expert Evaluator (<ftp://ftp.cordis.europa.eu/pub/fp7/docs/sme.zip>)
- The Johns Hopkins University-USA External Collaborator since 2000 (http://physics-astronomy.jhu.edu/groups/plasma/psg_people.html)

- Project coordinator for 16 projects and **partner** in more than 13 projects financed by Romanian Ministry of Research, European Union or private companies.

Last 10 years R&D Projects list (more details at <http://www.accent.ro/rd.html>)

- Support action for gamma beam industrial imaging applications development at ELI-NP – acronym **ELITOMO**, 2016-2019, coordinator
- NextGen Scanner for Checked In Luggage – acronym **CIL2018**, European funded projects, 2016-2018, Coordinator: The Technical University of Denmark, Partner
- Multi-parameter X-ray baggage scanner for threatening materials detection in Security applications – acronym **Multi X-ray Scan**, Romanian Funding Application for Joint Applied Research Projects PN-II-PT-PCCA-2013-4, 2014-2016, coordinator
- Continuous monitoring systems for the SAFE storage, distribution and usage of Hydrogen POWER for transport - acronym **SafeHPower**, FP7 Research for SME, 2013-2015, GA 605095 – Coordinator , <http://www.safehpower.eu/>
- Design and development of Soft X-ray Photodiodes data Acquisition System for Tokamak's plasma X-ray Imaging, Contract with The Johns Hopkins University, Maryland USA, 2012-2013
- Digital Color X-ray Security Scanning System - acronym **DCXScan** , Eureka-Eurostars Project E!7308, 2012-2014, Partner
- Development of an automated digital radiography system for the inspection of plastic electronics – acronym **PlastronicsSpec**, FP7 Research for SME, 2011-2013, GA 286531 – Coordinator, www.plastronicspec.com
- Automated inspection for sintered parts by non-destructive techniques for improved quality in production – acronym **AutoInspect**, FP7 Research for SME, 2011-2013, GA 283288 – Coordinator, <http://www.autoinspectproject.eu/>
- Development of Novel X-ray Inspection System for Fast Automated Detection of Counterfeit PCB Components – acronym **ChipCheck**, FP7 Research for SME, 2010-2012, GA 262212 – partner ; <http://www.chipcheck.eu/>
- Experiments and improvements for Dual-energy X and gamma ray radioscopy and Tomography for baggage and truck screening, 2009-2010 (private customer) - coordinator;
- Preliminary Experiments with X-Ray backscattering technique for airport passenger screening, 2010 (private customer)- coordinator;
- Studies and preliminary experiments for portable, automate and fast system for dangerous materials identification from baggage, parcels or other suspected objects by X-ray Radioscopy and Tomography using dual-energy technique acronym **TOMORAY** (81-003/ 2007-2010) - coordinator
- Experiments and algorithms in Electrical Impedance Tomography – FP5 PECO/COPERNICUS - CIPD940254 - partner
- In Process Control with Optical Coherence Tomography - acronym **IPC-OCT** – FP6 CRAFT –COOP-CT, 2003-2005 GA 507825 - partner
- Combined Terahertz- X-ray spectroscopy experiments and analysis Advanced contactless material identification in security and quality control, acronym **AMATID** (C-D FFG CIRCE AUSTRIA) - partner

- Nano/Micro-Scale Imaging and Metrology By Electron And X-Ray 3-D Tomography Of Innovative Materials, acronym **NIMETIM** (CEEX 06-D11-23/2006-2008) - partner
- Application and development of the new methods for investigation and dating of major climate and sea level changes in the Danube Delta and the Black Sea to reconstruct the evaluation and predict the associated risks, acronym **CLIMARISC** (31-068/2007-2010) – partner
- Studies and preliminary experiments for portable, automate and fast system for dangerous materials identification from baggage, parcels or other suspected objects by X-ray Radioscopy and Tomography using dual-energy technique, acronym **TOMORAY** (S-001 PNCD Security, 2006-2007) - coordinator
- The integrated and multidisciplinary investigation of the semi-closed ecosystems (alpine and volcanic lakes), to establish the reference level, to realize an ecological approach of the entropic impact: the alpine lakes from the Fagaras Mountains and the volcanic Saint Ana Lake, acronym **ALPIMP** (31-013/2007-2010) - partner
- Dual-energy X-Ray Tomography applied to marine and deltaic geology for obtaining, in situ and in laboratory, new data about geological samples density and chemical compositions (CEEX – MENER, 625 /03.10.2005) - partner.
- Design and development of Low-Noise Transimpedance preamplifier for NSTX Tokamak soft X-ray detectors used in plasma diagnosis – contract with Johns Hopkins University, 2005
- Feasibility study and laboratory X-Ray dual-energy Tomograph design and development for luggage control, 2002-2004 (private customer) - coordinator

GENERAL SKILLS

- Applied physics and engineering research in NDT computerized methods.
- X-ray Imaging (dual-multi energy techniques, radioscopy, tomography, diffraction, backscattering) for NDT, Security and industrial applications
- Various NDT techniques applications development (Acoustic Emission, Vibration monitoring, Ultrasound, Eddy Current, Electrical Impedance, etc.)
- Customer oriented new scientific and technical solutions.
- Innovating and developing new methods for computerized measurements and control.
- Designing and building new equipment and technologies in Non-Destructive Testing and Evaluation domains.
- Full design and development of prototype scientific instruments, including electrical, electronically, mechanical, hardware and software design and manufacturing.
- Data acquisition and computerized measurements.
- Data acquisition, analysis and visualization software packages development.
- Data analysis and measurement algorithms.
- Company and projects management.
- R&D Management & Consulting.

PROFESSIONAL ACTIVITY

<July 2000 - Present>

General Manager and Senior Research Scientist with **ACCENT PRO 2000 Ltd.**
Company (please visit www.accent.ro), Bucharest, Romania

Activities:

- Design and development of X-ray tomography/radioscopy equipment for Security and NDT applications;
- Design, development and prototype manufacturing for portable X-ray dual-energy system for bomb squad interventions;
- Design, development and prototype manufacturing for X-ray dual/multi energy Tomography/radioscopy equipment dedicated for security and NDT (sedimentary cores and minerals analysis);
- X-ray backscattering technique for passenger scanning and NDT applications;
- Research, experiments and algorithms development for X and gamma ray baggage and trucks screening devices;
- R&D for high resolution X-ray imaging with application in NDT (electronic components scan, pipe welds digital radiography, sintered parts, OLED displays etc.)
- Materials identification algorithms by X-Ray dual/multi-energy, diffraction, backscattering Tomography and Radioscopy.
- Medical X-Ray Imaging.
- European Community FP7 Projects Evaluator.
- R&D Consulting.
- Coordinator for 6 R&D projects and partner in other 7 projects financed by Romanian Ministry of Research, EC or private companies.
- R&D Company management.

<Feb.1999 - May 2000>

- Postdoctoral fellow with The Johns Hopkins University, Department of Physics and Astronomy, Plasma Spectroscopy Group from Baltimore, Maryland, USA;
(http://physics-astronomy.jhu.edu/groups/plasma/psg_people.html)

- Long-term Visitor Research Scientist at Princeton Plasma Physics Laboratory, Princeton University, New Jersey
(http://physics-astronomy.jhu.edu/groups/plasma/psg_people.html)

Activities:

- R&D of tomographic systems for Soft X-Ray plasma diagnostics dedicated to NSTX Tokamak;
- Designing and development of specialized data acquisition and software packages for tomographic systems.

<1990 - 1999>

Senior Research Scientist, Head of the "Computerized Control and Non-Destructive Testing Laboratory" and Head of a NDT Nuclear Unit, at the R&D Institute for Electrical Engineering - ICPE S.A., Bucharest.

Activities:

R&D oriented to new-product and new applications development (for more details please visit the Lab Site <http://www.icpe.ro/lab/comp-ndt/>) in the following domains:

- 2D and 3D Industrial gamma-ray Computerized Tomography;
- Immersion Ultrasound scanner with focalized transducers for lithotripsy;
- Multi-channel Acoustic Emission equipment;
- Vibration Monitoring Systems;
- High-accuracy density measurement;
- Studies and experiments in Electrical Impedance Tomography;
- Stands for complex electrical tests and measurements for electrical motors and electrical tools;
- Magnetic-powder and eddy current brakes design;
- Large size LED-based Graphic Panel design and manufacturing;
- Laboratory Department Manager; representative and dealer activity.
- Coordinator for 7 national R&D projects and partner in 3 projects financed by Romanian Ministry of Research, EC or private companies.

<1990 - 1991>

Scientific Director with R&D Institute for Electrical Engineering (ICPE S.A.) - Bucharest

Activities:

- Building and implementing new technical and economical algorithm for R&D departments evaluation and management;
- Scientific management of following domains/laboratories: Non-conventional energies (solar, photovoltaic, wind, H₂, etc.), Non Destructive Testing, R&D for Electrical Materials, Accelerating Aging tests for electrical components, Electrical Technologies, Quality Assurance in Electrical Domain, Superconductivity, Medical Equipment, Microwave technologies, Tests of equipment destined for Nuclear Power Plants; Quality Assurance Department.

<1984 - 1990>

Research Scientist with R&D Institute for Electrical Engineering - ICPE S.A., Bucharest.

Activities:

- Development of techniques and instrumentations for monitoring electrical equipment behavior during the "Seismic Test" and "Loss of Cooling Accident Test" for Nuclear Power Plants equipment qualification.

<1982 - 1984>

Research Scientist with the Research Institute for Nuclear Reactors - IRNE, Pitesti - Romania.

Activities:

Participating at the development of computerized stand dedicated for nuclear fuel reactivity test and analysis. Nuclear fuel gamma scanning measurements. Water residual contamination analysis by activation method.

Selected published and presented scientific papers

1. NONDESTRUCTIVE MATERIAL INSPECTION USING BRILLIANT QUASI-MONOENERGETIC GAMMA BEAMS AT ELI-NP: V. Iancu, G.Suliman, G.V.Turturica, E.Hermann, M.Iovea, D.L.Balabanski, H.Ohgaki, C.A. Ur., The 2017 International Conference on Applications of Nuclear Techniques, Crete , Greece, June 11-17 2017;
2. DIGITAL X-RAY EQUIPMENT AND FAST DEFECTS DETECTION TECHNOLOGY FOR IN-LINE SINTERED POWDER METALLURGY PARTS NON DESTRUCTIVE CONTROL; Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Elena ANGHELUTA, Alexandru COTENESCU, World PM Congress Proceedings Hamburg 9-13 October, 2016;
3. GAMMA-BEAM TECHNIQUES, X-RAY FLUORESCENCE (XRF) AND NUCLEAR MAGNETIC RESONANCE(NMR): D.L.Balabanski, B.Blumich, N.Gelli, V. Iancu, M.Iovea, A.Kriznar, M.Massi, A.Mazzinghi,I.Ortega-Feliu, M.A.Respaldiza, C.Ruberto, S.Scrivano, G.Suliman, Z.Szokefalvi-Nagy, C.A.UR, W.Zia; Nuclear Physics For Cultural Heritage October, p37- p53, 2016;
4. FAST X-RAY DIGITAL RADIOGRAPHY EQUIPMENT FOR IN-LINE PRODUCTION CONTROL M. Iovea¹, M. Neagu¹, B. Stefanescu¹, G. Mateiasi¹, I. Porosnicu¹, E. Angheluta , Accent Pro 2000, Bucharest, Romania; Proceedings of World Congress on Non-Destructive Testing - WCNDT 2016, Munich, Germany, 13 - 17 June 2016;
5. DEFECT DETECTION AND CLASSIFICATION SYSTEM FOR AUTOMATIC ANALYSIS OF DIGITAL RADIOGRAPHY IMAGES OF PM PARTS MG Ponomarev, C Selcuk, T-H Gan, M Amos, I Nicholson, M Iovea, M Neagu, B Stefanescu, G Mateiasi; Powder Metallurgy. 57(1);17-2001/2014;
6. GAMMA-BEAM ANALYTICAL METHODS D L Balabanski, V Iancu, M Iovea, G Suliman,C.A.Ur, Nuclear Physics for Cultural Heritage topical review, p37-p39 (2016);
7. BRILLIANT GAMMA BEAMS FOR INDUSTRIAL APPLICATIONS: NEW OPPORTUNITIES, NEW CHALLENGES; V Iancu¹, G Suliman¹, G V Turturica¹, M Iovea, I Daito, H Ohgaki, C Matei¹, C A Ur¹ and D L Balabanski. Published under licence by IOP Publishing Ltd; Journal of Physics: Conference Series, Volume 763, Numbe 1 , 2016;
8. GAMMA BEAM INDUSTRIAL APPLICATIONS AT ELI-NP: G. Suliman, V. Iancu, C. A. Ur, M. Iovea, I. Daito, H. Ohgaki, International Journal of Modern Physics: Conference Series 44, 1660216, 2016;
9. GAMMA BEAM INDUSTRIAL APPLICATIONS AT ELI-NP: G. Suliman, V. Iancu, C. A. Ur, M. Iovea, I. Daito, H. Ohgaki, Romanian Reports in Physics 68, Supplement, S799–S845, 2016;
10. SIMULATION STUDY ON CUMPUTER TOMOGRAPHY IMAGING ON NUCLEAR DISTRIBUTION BY QUASI MONOENERGETIC GAMMA RAYS WITH NUCLEAR RESONANCE FLUORESCENCE : CASE STUDY FOR ELI-NP APPLICATION: I. Daito, H. Ohgaki, G. Suliman, V. Iancu, C. A. Ur, M. Iovea, Energy Procedia 89,389 394, 2016;
11. PORTABLE LOW-COST FLAT-PANEL DETECTORS FOR REAL-TIME DIGITAL RADIOGRAPHY, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Ioana POROSNICU, Elena ANGHELUTA; ^{7TH} International symposium on NDT in aerospace, Bremen, Germany, 16-18 November , 2015;
12. ASPECTS REGARDING NON-DESTRUCTIVE HIGH RESOLUTION X-RAY IMAGING IN INDUSTRIAL DIGITAL RADIOGRAPHY , Asociatia romana de examinari nedistructive, Revista Examinari nedistructive , Nr. 1(3), p13-p23 (in Romanian language), 2015;
13. GAMMA BEAM INDUSTRIAL APPLICATIONS AT ELI-NP , G. Suliman, V. Iancu, C. A. Ur, M. Iovea, I. Daito, and H. Ohgaki , The 2015 International Conference on Applications and Nuclear Techniques , Crete, Greece June 14-20, 2015 ;
14. SIMULATION STUDY ON CUMPUTER TOMOGRAPHY IMAGING ON NUCLEAR DISTRIBUTION BY QUASI MONOENERGETIC GAMMA RAYS WITH NUCLEAR RESONANCE FLUORESCENCE : I. Daito, H. Ohgaki, G. Suliman, V. Iancu, C.A. Ur, M. Iovea CASE STUDY FOR ELI-NP APPLICATION, 12th Eco-Energy and Materials Science and Engineering Symposium, Krabi, Thailand, June 11-14, 2015;
15. TIME DELAY INTEGRATION DETECTOR BASED SOLUTION FOR INDUSTRIAL X-RAY NDT INSPECTION, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan L. CLARKE, Malini VIEYRA, P. Ian NICHOLSON, ^{11th} European Conference on Non-Destructive Testing (ECNDT 2014), October 6-10, Prague, Czech Republic, 2014;

16. AN X-RAY IMAGING SOLUTION FOR GREEN AND SINTERED PM PARTS-NDT CONTROL; Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan CLARKE, Malini Vieyra, Ian NICHOLSON, EURO PM Congress - EMPA 2014, Salzburg AUSTRIA, p21-p24 September 2014;
17. TIME DELAY INTEGRATION DETECTOR BASED SOLUTION FOR INDUSTRIAL X-RAY NDT INSPECTION; Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan L. CLARKE, Malini VIEYRA, Ian NICHOLSON; 11th European Conference on NDT, Prague, October 6-10, 2014;
18. THREAT LIQUID IDENTIFICATION IN HAND-HELD BAGGAGE, Sebastian Faby, Marcus Brehm, Michael Knaup, Keith Powell, Mohammed Ayoub, Benjamin Cantwell, Ian Radley, Mihai Iovea and Marc Kachelrieß; "The Third International Conference on Image Formation in X-Ray Computed Tomography", June 22-25, Salt Lake City, Utah, USA, Conf. Proceedings p117-p121; 2014;
19. DIGITAL RADIOGRAPHIC INSPECTION TECHNIQUE FOR PRODUCTION FRIENDLY QUALITY ASSESSMENT OF PM PARTS Maxim G Ponomarev, Vassilios Kappatos, Cem Selcuk, Tat-Hean Gan, Mathew Amos, Harshad Halai, Christian Gierl, Mihai Iovea; Powder Metallurgy 56(2):92-950,1/2013;
20. PRODUCTION OF FERROUS PM-PARTS FOR CALIBRATION AND DEMONSTRATION OF TYPICAL DEFECT DETECTION PERFORMANCE OF IN-LINE X-RAY DIGITAL RADIOGRAPHY EQUIPMENT; Christian Gierl-Mayer Mohammad Momeni, Herbert Danninger, Mihai Iovea; G Mateiasi, A Clarke; I. Nicholson; European Powder Metallurgy Association EMPA 2013, Gothenburg, Sweden, Proceedings Volume 2, Session 27: Non Destructive Testing, p169 – p174, ISBN 978-1-899072-42; 15-18 September 2013;
21. A DEFECT DETECTION AND CLASSIFICATION SYSTEM FOR AUTOMATIC ANALYSIS OF DIGITAL RADIOGRAPHY IMAGES OF POWDER METALLURGY PARTS ; Maxim G Ponomarev, C. Selcuk, T.-H. Gan, M. Amos, I. Nicholson, M. Iovea, M. Neagu, B. Stefanescu, G. Mateiasi Euro PM2013 - Non Destructive Testing, Referred Proceedings, Gothenburg, Sweden; 09/2013;
22. PM PARTS FAST IN-LINE X-RAY DIGITAL RADIOGRAPHY; Mihai Iovea, Marian Neagu, B. Stefanescu, Gabriela Mateiasi, Mathew Amos, Ian Nicholson, Maxim Ponomarev; European Powder Metallurgy Association EMPA 2013, Gothenburg, Sweden, Proceedings Volume 2, Session 27: Non Destructive Testing, p187 – p192, ISBN 978-1-899072-42; 15-18 September 2013;
23. A DEFECT DETECTION AND CLASSIFICATION SYSTEM FOR AUTOMATIC ANALYSIS OF DIGITAL RADIOGRAPHY IMAGES OF POWDER METALLURGY PARTS, Maxim Ponomarev; Tat-Hean Gan; Cem Selcuk; Mathew Amos; Ian Nicholson; Mihai Iovea, Marian Neagu, European Powder Metallurgy Association Gothenburg, Sweden; Proceedings Volume 2, Session 27: Non Destructive Testing, p181-p186, ISBN 978-1-899072-42-2, 15-18 September, 2013;
24. THREAT LIQUID IDENTIFICATION IN HAND-HELD BAGGAGE, Mihai Iovea, Marcus Brehm, Sebastian Faby, Michael Knaup, Marc Kachelrieß, Ben Cantwell, Xun Wang, Ian Radley, Mohammed Ayoub, Keith Powell; IEEE Nuclear Science Symposium and Medical Imaging Conference (2013 NSS/MIC);
25. ON THE HEAVY ELEMENTS CONTENT OF SEDIMENTS AND ROCKS FROM TWO SEMICLOSED ECOSYSTEMS: PROGLACIAL LAKE BÂLEA (FÂGÂRAȘ MOUNTAINS) AND CRATER LAKE ST. ANA (HARGHITA MOUNTAINS), O.G. Dului; S.I. Lyapunov, A.V. Gorbunov, C. Ricman, T. Brustur, M.V. Frontasyeva, O.A. Culicov and M. Iovea, Physics of Particles and Nuclei 10(5):p469–p475. DOI: 10.1134/S1547477113050087, 01/2013;
26. PRELIMINARY NDT INVESTIGATION OF SINTERED POWDER METALLURGY PARTS BY HIGH-RESOLUTION TDI BASED X-RAY DIGITAL RADIOGRAPHY, 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, p145-p150; Basel, Switzerland; September 16-19, 2013;
27. DEVELOPMENT OF A DIGITAL RADIOGRAPHIC INSPECTION TECHNIQUE FOR PRODUCTION FRIENDLY QUALITY ASSESSMENT OF POWDER METALLURGY PARTS; Maxim G Ponomarev, Vassilis Kappatos, Cem Selcuk, Tat-Hean Gan, Mathew Amos, Harshad Halai Christian Gierl, Mihai Iovea; Powder Metallurgy Journal - Vol. 56, No. 2, p 92-p95, Powder Metallurgy European Congress, September 16-19, Basel, Switzerland; 2013;
28. 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, p179-p183; <http://www.ijcs.uaic.ro/pub/IJCS-11-16-Emandi.pdf> ; July-September 2011;

29. A DEDICATED ON-BOARD DUAL-ENERGY COMPUTER TOMOGRAPHY, Mihai lovea, Marian Neagu, Octavian G. Dului, Gheorghe Oaie, Stefan Szobotka, Gabriela Mateiasi.
Journal of Nondestructive Evaluation (Springer), Volume: 30, Issue: 3, p 164-p171, DOI: 10.1007/s10921-011-0104-x, June 2011; <http://www.springerlink.com/content/bpx2mn784r7k5h71/>
30. NEW PORTABLE AND AUTONOMOUS DUAL ENERGY X-RAY SYSTEM FOR NDT AND SECURITY APPLICATIONS, International Symposium on Digital Industrial Radiology and Computed Tomography, M. lovea, G. Mateiasi, M. Neagu , O.G. Dului; June 20 – 22, Berlin, Germany; 2011;
31. PERFORMANCES COMPARISON BETWEEN A 2D FLAT PANEL X-RAY DETECTOR AND A VIRTUAL ONE BASED ON LINEAR ARRAY X-RAY DETECTOR TRANSLATION TECHNIQUE, M. lovea, I. Tiseanu, T. Craciunescu, M. Neagu, G. Mateiasi; International Symposium on Digital Industrial Radiology and Computed Tomography, June 20 – 22, Berlin, Germany, 2011;
32. PORTABLE AND AUTONOMOUS X-RAY EQUIPMENT FOR IN-SITU THREAT MATERIALS IDENTIFICATION BY EFFECTIVE ATOMIC NUMBER HIGH-ACCURACY MEASUREMENT, M. lovea, G. Mateiasi, M. Neagu , O.G. Dului , SPIE Defence, Security & Sensing Conference, April 2011, Orlando -Florida USA , (published in Proc. of SPIE Vol 8017 801713-1; DOI: 10.1117/12.883666) http://spie.org/x648.html?product_id=883666, 2011;
33. COMBINED X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR EXPLOSIVES DETECTION, M. lovea, G. Mateiasi, O.G. Dului, M. Neagu and M. Mangu. Materials Evaluation, vol 67, Issue:12, p1343-p1349, December 2009, <http://www.asnt.org/publications/materialseval/materialseval.htm>
34. DUAL ENERGY X-RAY COMPUTER AXIAL TOMOGRAPHY AND DIGITAL RADIOGRAPHY INVESTIGATION OF CORES AND OTHER OBJECTS OF GEOLOGICAL INTEREST; M. lovea, G. Oaie, C. Ricman, G. Mateiasi, M. Neagu, S. Szobotka and O.G. Dului; 2008 Engineering Geology, Volume:103, Issue: 3-4, p119-p126, DOI: 10.1016/j.enggeo. 2008;
<http://www.sciencedirect.com/science/article/pii/S0013795208001713>
35. PORTABLE AND AUTONOMOUS X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY EQUIPMENT FOR SECURITY AND NDT APPLICATION, M. lovea, M. Neagu, O. Dului, G. Mateiasi, M. Mangu American Society for Non-destructive Testing Fall Conference 2009 Columbus OHIO, 16-18 October 2009, (abstract);
36. COMPLEX STUDY OF OXIGENATED and ANOXIC SEDIMENTS OF THE BLACK SEA ZONES, O.G. DULIU, M. IOVEA, M. NEAGU, G. OAIIE, S.A. SZOBOTKA, C. CRISTACHE, M. TOMA, O.A. CULICOV, M.V. FRONTASYEVA (invited paper); Faculty of Physics General Scientific Seminar, University of Bucharest, Bucharest, Romania, 25th November 2009;
37. VISUALIZATION, ANALYSIS AND MATERIALS IDENTIFICATION TECHNIQUES IN X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY FOR SECURITY AND NDT APPLICATION, M. lovea; Institute of Atomic Physics Seminar (invited paper); , 26th June 2009 ; http://www.ifa-mg.ro/seminarii/26_iunie_2009/Mihai_IOVEA-Seminar_IFA_26Iunie2009.pdf (in Romanian language)
38. PRELIMINARY EXPERIMENTS OF SINGLE X-RAY VIEW CATHETER 3D LOCALIZATION ALGORITHM FOR TARGETED STEM CELL INJECTIONS, M. lovea, J. Creed, E. Perin; M. Neagu, G. Mateiasi. SPIE Medical Imaging Conference, 8-12 February 2009, Florida; Proc. SPIE 7261, 72611Y (2009); doi:10.1117/12.811036; http://spie.org/x648.html?product_id=811036
39. X-RAY MICRO-TOMOGRAPHY AS A TOOL FOR QUANTITATIVE CHARACTERIZATION OF ADVANCED MATERIALS MANUFACTURING PROCESSES, Ion Tiseanu, Teddy Craciunescu, M. lovea; Advanced Materials Research Vol 47-50 ,698-701, 2008;
<http://www.scientific.net/0-87849-378-6/698/>
40. DUAL-ENERGY COMPUTED TOMOGRAPHY AND DIGITAL RADIOGRAPHY: VALUABLE METHODS IN INVESTIGATING UNCONSOLIDATED SEDIMENTS Dului O., lovea M., Oaie Gh., Neagu M. , Szobotka St., Mateiasi G. , International Seminar on Natural Hazards in the Marine Area, Bucharest, Romania, 28-29 July 2008;
41. MATERIALS MICROANALYSIS TECHNIQUE BY DUAL-ENERGY X-RAY TOMOGRAPHY AND RADIOSCOPY, M. lovea, O.Dului, G.Mateiasi, M. Neagu, M. Mangu; Ion Tiseanu, Teddy Craciunescu, The British Institute of Non-Destructive Testing NDT 2008 Conference, Cheshire – UK, 16-18 September 2008;

42. COMBINED X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR EXPLOSIVES DETECTION, M. Iovea, G.Mateiasi, O.Duliu, M. Neagu, M. Mangu, ASNT Fall Conference 2008, Charleston, South Carolina-USA, 10-14 November 2008;
43. 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, Duliu O., Brustur T., Szobotka S., Oaie G., Ricman C., Alexe V., Iovea M., Hodorozea S., Geo-Eco-Marina 14, supliment nr. 1, 2008, p.181 – 185;
44. PRELIMINARY EXPERIMENTS FOR X-RAY DUAL-ENERGY MICRO-TOMOGRAPHY QUANTITATIVE ANALYSIS, X-Ray Micro Imaging of Materials, Devices and Organisms IEEE Conference, Dresden, Germany, 22-24 October 2008;
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