

PERSONAL INFORMATION

Mihai IOVEA



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Sex M | Date of birth 29/04/1954 | Nationality Romanian

POSITION WITHIN THE COMPANY

GENERAL MANAGER

WORK EXPERIENCE

2000 – present

General manager, Senior Research Scientist with ACCENT PRO 2000 Ltd. Bucharest, Romania

- Design and development of in-line combined Laser profiler and X-ray imaging scanner for ballistic plates
- 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 & H2020 Projects Evaluator
- Coordinator for 19 R&D projects and partner in other 16 projects financed by Romanian Ministry of Research, EC or private companies
- R&D Company management

1999 - 2000

Postdoctoral fellow with The Johns Hopkins University, Department of Physics and Astronomy, Plasma Spectroscopy Group from Baltimore, Maryland, USA;
 Long-term Visitor Research Scientist at Princeton Plasma Physics Laboratory, Princeton University, New Jersey

- 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 "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

R&D oriented to new-product and new applications development (for more details please visit the Lab Site) 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

- 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

- Development of techniques and instrumentations for monitoring electrical equipment behaviour 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

- 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.

EDUCATION AND TRAINING

1998 - 2000 **Postdoctoral studies**

Johns Hopkins University - Baltimore, Maryland - USA; Department of Physics and Astronomy, Plasma Spectroscopy Group

1998 - 2000 **Ph.D. in Physics**

The Institute for Atomic Physics, Bucharest

Thesis: „Study of Physical Mechanisms in Computerized Tomography”

1977 - 1982 **M.Sc. Engineering in Physics** - Measurements and Control Specialty
B.Sc. Technology Physics
 Physics University of Bucharest, Romania
 • Measurements and control

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through my experience as EU projects coordinator

Organisational / managerial skills Replace with your organisational / managerial skills. Specify in what context they were acquired.
 Example:

- 2 years Scientific director at Electrical Engineering Research Institute – Bucharest
- 12 years Head of NDT Computerized Control Laboratory with Electrical Engineering Research Institute – Bucharest
- 20 years General Manager with R&D private company ACCENT PRO 2000 S.R.L
- Project coordinator/manager in the last 20 years for
 - 19 R&D National funded projects
 - 6 projects financed by EU R&D program (FP7, Eureka, Marie-Curie...)
 - 10 projects financed by private companies

- Job-related skills**
- 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 12 years
 - National R&D Institute for Electrical Engineering as Scientific Director for 2 years
 - ACCENT PRO 2000 Ltd as General Manager for the last 19 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 and partner in more than 35 projects financed by Romanian Ministry of Research, European Union or private companies

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent	Independent	Independent	Independent	Proficient user

Levels: Basic user - Independent user - Proficient user

[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

Replace with your other computer skills. Specify in what context they were acquired.
Example:

- good command of office suite (word processor, spread sheet, presentation software)
- good command of technical algorithms and software development

Other skills

Driving licence B

ADDITIONAL INFORMATION



Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

1. Development of a non-destructive testing system for the automated inspection of ceramic armour plates and parts, M Iovea, M Cerit, A Tunç, JD Stephenson, K Gündoğdu, AIP Conference Proceedings 2380 (1), 040004
2. The significance of the spectral correction of photon counting detector response in material classification from spectral x-ray CT, Doniyor Jumanazarov, Ja-Keoung Koo, Henning F. Poulsen, Ulrik L. Olsen, Mihai Iovea; Proceedings Volume 11771, Quantum Optics and Photon Counting 2021; 117710J (2021) <https://doi.org/10.1117/12.2589290>, Event: SPIE Optics + Optoelectronics, 2021, Online Only
3. SYSTEM-INDEPENDENT MATERIAL CLASSIFICATION THROUGH X-RAY ATTENUATION DECOMPOSITION FROM SPECTRAL X-RAY CT, D. Jumanazarov, J Koo, M Busi, HF Poulsen, UL Olsen, M Iovea; NDT & E International, 102336, 2020
4. EFFECTIVE Z EVALUATION USING MONOENERGETIC GAMMA RAYS AND NEURAL NETWORKS G V. Turturica V. Iancu, A. Pappalardo, P.-A. Söderström, E. Açıksoz, D. Balabanski, L. Capponi, P. Constantin, V.Fugaru, L. Guardo, M Ilie, S. Ilie, M. Iovea, D. Lattuada, D. Nichita, T. Petrusse, A. Spataru, and C. A. Ur , 2019 EPJ Plus - The European Physical Journal Plus 135 (2), 1-13
5. Wideband Sub-terahertz Coplanar Waveguide-Fed Spiral Antenna, AC Bunea, D Neculoiu, MA Avram, M Iovea, SCIENCE AND TECHNOLOGY 23 (2), 140-156, 2020
6. ARCHIMEDEAN SPIRAL ANTENNA WITH COPLANAR WAVEGUIDE FEED, Alina-Cristina Bunea, Dan Neculoiu Andrei Avram, Mihai Iovea, IEEE 42nd International Semiconductor Conference –IEEE CAS 2019, Sinaia - Romania, 9-11 October 2019, pp. 65-68 - Best paper award
7. HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY WITH ELIADÉ AT THE EXTREME LIGHT INFRASTRUCTURE. PA Söderström, G Suliman, CA Ur, D Balabanski, T Beck, L Capponi, ..., Acta Physica Polonica B 50 (3), 2019
8. PRELIMINARY THEORETICAL APPROACH FOR MATERIALS ELEMENTAL COMPOSITION IDENTIFICATION USING X - RAYS SPECTRAL TRANSMISSION DATA, E. Hermann, O. G. Dului, M. Iovea, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 20, No. 7-8, July – August 2018, p. 410 - 418 (2018);
9. Wideband Micromachined Antenna for W-band Applications, AC Bunea, D Neculoiu, A Avram, M Iovea, 2018 IEEE Asia-Pacific Conference on Antennas and Propagation (APCAP), 433-434, 2018
10. ELEMENTAL ANALYSES SENSITIVITIES OF PROSPECTIVE NONDESTRUCTIVE INSPECTIONS AT ELI-NP, V Iancu, Gabriel V. Turturica, Gabriel Suliman, Edward Hermann, Mihai Iovea, Dimiter L. Balabanski, Hideaki Ohgaki, Calin A. Ur; 2nd International Conference on Nuclear Photonics June 2018-Brasov, Abstract, p188 (2018);
11. SUPPORT ACTIONS FOR INDUSTRIAL IMAGING APPLICATIONS DEVELOPMENT AT ELI-NP GAMMA BEAM, Mihai Iovea, Calin A. Ur, Violeta Iancu, Edward Hermann, Gabriel Suliman, Gabriel Turturica, Alfio Pappalardo, Gabriela Mateiasi, Marian Neagu, Florin Valeriu Cotorobai, Elena Angheluta, Bogdan Stefanescu, Alexandru Enciu; 2nd International Conference on Nuclear Photonics June 2018-Brasov, Abstract, p195 (2018);
12. 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 11-172017;
13. Brilliant gamma beams for industrial applications: new opportunities, new challenges, V Iancu, G Suliman, GV Turturica, M Iovea, I Daito, H Ohgaki, C Matei, ..., Journal of Physics: Conference Series 763 (1), 012003, 2016
14. Development of a tangential neutron radiography system for monitoring the fatigue cracks in hydrogen fuel tanks, M Vieyra, M Iovea, K Tzortzou, Proc. of 19th World Conf. on Non-Destructive Testing, 13-17, 2016
15. Complementary Methods: Γ -beam Techniques, X-ray Fluorescence (XRF) and Nuclear Magnetic Resonance (NMR), DL Balabanski, B Blümich, N Gelli, V Iancu, M Iovea, A Kriznar, M Massi, ..., Universitätsbibliothek der RWTH Aachen, 2016
16. 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; 2016, Hamburg 9-13 October, World PM Congress Proceedings
17. 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 2016, pg. 37-53
18. 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;
19. 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);
20. 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, 01/2014; 57(1):17-20
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. Tools for Improving PM: An X-ray Imaging Solution for Green and Sintered PM Parts-NDT Control, Mihai Iovea, Marian Neagu, Bogdan Stefanescu, Gabriela Mateiasi, Alan L Clarke, Malini Vieyra, P Ian Nicholson, European Congress and Exhibition on Powder Metallurgy. European PM Conference Proceedings
23. FAST X-RAY DIGITAL RADIOGRAPHY EQUIPMENT FOR IN-LINE PRODUCTION CONTROL M. Iovea I, M. Neagu I, B. Stefanescu I, G. Mateiasi I, I. Porosnicu I, E. Angheluta, Accent Pro 2000, Bucharest, Romania
24. 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 01/2013; 56(2):92-95.
25. 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
26. ASPECTS REGARDING NON-DESTRUCTIVE HIGH RESOLUTION X-RAY IMAGING IN INDUSTRIAL DIGITAL RADIOGRAPHY , Asociatia romana de examinari nedestructive, Revista Examinari nedestructive , Nr. 1(3), 2015, pag. 13-23 (in Romanian language)

27. 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
28. TIME DELAY INTEGRATION DETECTOR BASED SOLUTION FOR INDUSTRIAL X-RAY NDT INSPECTION, 11th European Conference on Non-Destructive Testing (ECNDT 2014), October 6-10, 2014, Prague, Czech Republic, Mihai IOVEA, Marian NEAGU, Bogdan STEFANESCU, Gabriela MATEIASI, Alan L. CLARKE, Malini VIEYRA, P. Ian NICHOLSON
29. 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 – EMPA 2014 Conference proceedings, p21-p24 ;
30. 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
31. 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 Iovea; G Mateiasi, A Clarke; I Nicholson
32. 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 Iovea, Marian Neagu, B. Stefanescu, Gabriela Mateiasi, Mathew Amos, Ian Nicholson, Maxim Ponomarev
33. 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; Cem Selcuk; Mathew Amos; Ian Nicholson; Mihai Iovea, Marian Neagu
34. THREAT LIQUID IDENTIFICATION IN HAND-HELD BAGGAGE, 2013 IEEE Nuclear Science Symposium and Medical Imaging Conference (2013 NSS/MIC); Mihai Iovea, Marcus Brehm, Sebastian Faby, Michael Knaup, Marc Kachelrieß, Ben Cantwell, Xun Wang, Ian Radley, Mohammed Ayoub, Keith Powell
35. ON THE HEAVY ELEMENTS CONTENT OF SEDIMENTS AND ROCKS FROM TWO SEMICLOSED ECOSYSTEMS: PROGLACIAL LAKE BĂLEA (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. Iovea
36. 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
37. 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
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39. 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 Iovea, Marian Neagu, Octavian G. Dului, Gheorghe Oaie, Stefan Szobotka, Gabriela Mateiasi. <http://www.springerlink.com/content/bpx2mn784r7k5h71/>
40. 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. Iovea, G. Mateiasi, M. Neagu , O.G. Dului
41. 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. Iovea, I. Tiscanu, T. Craciunescu, M. Neagu, G. Mateiasi;
42. 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. Iovea, 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
43. COMBINED X-RAY DUAL-ENERGY RADIOSCOPY AND TOMOGRAPHY ANALYSIS FOR EXPLOSIVES DETECTION, *Materials Evaluation*, vol 67, Issue:12, pg. 1343-1349, December 2009, M. Iovea, G. Mateiasi, O.G. Dului, M. Neagu and M. Mangu. <http://www.asnt.org/publications/materialseval/materialseval.htm>
44. 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.sciencedirect.com/science/article/pii/S0013795208001713>
45. 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 (abstract)
46. 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. OAI, S.A. SZOBOTKA, C. CRISTACHE, M. TOMA, O.A. CULICOV, M.V. FRONTASYEVA (invited paper);

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Projects

1. Imbunatatirea tehnicilor de imagistica cu raze X neconventionale pentru investigarea efectelor iradierii tesuturilor biologice cu doze de radiatii gama monitorizate
2. X-CAP Automatic Digital X-Ray Radiography System For Medical Capsules and Small Parts
3. Know-how transfer contract with Integrity NDT -Turkey for delivering the technologies and manufacturing design for ceramic ballistic plates in-line Non-Destructive Control machine
4. New advanced technologies for surfaces deposition by using high-power lasers for increasing the materials reliability and performances - PRELAM
5. Enabling X-ray CT based industry 4.0 process chains by training next generation research experts, xCTing, partner
6. Development of a dedicated Non-destructive equipment for ballistic plates in-line control - NUROL Teknoloji A.S., coordinator
7. X-Shaper dedicated non-destructive equipment for ballistic plates in-line control
8. Developing static tomographic machines equipped with new X-ray algorithms for the next generation of 3D baggage scanners- Gilardoni, coordinator
9. Sistem de imagistica pasiva cu unde milimetrice pentru scanarea rapida a persoanelor cu aplicatii in domeniul securitati - acronim BODYSCAN, coordinator
10. MULTISCALE, Multimodal and Multidimensional imaging for EngineeRING - acronim MUMMERING, Partner
11. Noi tehnologii avansate de acoperire a suprafetelor folosind fascicul laser de mare putere in vederea cresterii fiabilitatii si a performantelor materialelor – PRELAM, partener
12. A know-how transfer contract with Integrity NDT -Turkey for delivering the technologies and manufacturing design for ceramic ballistic plates in-line Non-Destructive Control machine -coordonator
13. Security applications development at ELI-NP: detecting concealed threatening materials by using Nuclear Resonance Fluorescence and 2D/3D tomography with gamma beams – acronim ELI THREAT_DETECT, 2017-2019, coordinator
14. Support action for gamma beam industrial imaging applications development at ELI-NP – acronim ELITOMO, 2016-2019, coordinator
15. Security Applications: X-Ray Dual/Multi Energy and Diffraction Technique for Single/Dual View Digital Radiography and 2D & 3D Tomography for Baggage Threats detection, 2015, coordinator
16. Advanced X-Ray Imaging System for Aerospace Components Structural Integrity Investigation (DUALXSCAN), 2012–2015, coordinator
17. Contract no.323E/01.10.2012 for co-financial support of Romanian partners in EUREKA-EUROSTARS projects participation (DCXScan), 2012–2015, coordinator
18. NextGen Scanner for Checked In Luggage – acronim CIL2018, European funded projects, 2016-2018, Coordinator: The Technical University of Denmark, Partner
19. Multi-parameter X-ray baggage scanner for threatening materials detection in Security applications – acronim Multi X-ray Scan, Romanian Funding Application for Joint Applied Research Projects PN-II-PT-PCCA-2013-4, 2014-2016, coordinator
20. Continuous monitoring systems for the SAFE storage, distribution and usage of Hydrogen POWER for transport - acronim SafeHPower, FP7 Research for SME, 2013-2015, GA 605095 – Coordinator , <http://www.safehpower.eu/>
21. 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, coordinator
22. Contract no.190EU/22.10.2012 for co-financial support of Romanian partners in FP7 projects participation, acronim AUTOINSPECT, 2012 - 2013, coordinator
23. EC-FP7 PLASTRONICSSPEC Project X-Ray Non-Destructive Testing of OLED Display, 2012 – 2013, coordinator
24. Contract no.194EU/22.10.2012 for co-financial support of Romanian partners in FP7 projects participation (ChipCheck), 2012 – 2013, coordinator
25. Digital Colour X-ray Security Scanning System - acronim DCXScan, EurekaEurostars Project E!7308, 2012-2014, Partner
26. Development of an automated digital radiography system for the inspection of plastic electronics – acronim PlastronicSpec, FP7 Research for SME, 2011- 2013, GA 286531 – Coordinator, www.plastronicsspec.com
27. Automated inspection for sintered parts by non-destructive techniques for improved quality in production – acronim AutoInspect, FP7 Research for SME, 2011-2013, GA 283288 – Coordinator, <http://www.autoinspectproject.eu/>
28. Development of Novel X-ray Inspection System for Fast Automated Detection of Counterfeit PCB Components – acronim ChipCheck, FP7 Research for SME, 2010-2012, GA 262212 – partner ; <http://www.chipcheck.eu/>
29. Experiments and improvements for Dual-energy X and gamma ray radioscopy and Tomography for baggage and truck screening, 2009-2010 (private customer) - coordinator
30. Preliminary Experiments with X-Ray backscattering technique for airport passenger screening, 2010 (private customer)- coordinator

31. 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
32. The design and development of high-resolution dual- energy X-ray Radioscopy and Tomography mobile and autonomous system destined for fast identification of the explosive materials during the antitero interventions acronym DUALTOMO, 2007 – 2010, coordinator
33. Experiments and algorithms in Electrical Impedance Tomography – FP5 PECO/COPERNICUS - CIPD940254 - partner
34. In Process Control with Optical Coherence Tomography - acronym IPC-OCT –FP6 CRAFT –COOP-CT, 2003-2005 GA 507825 – partner
35. 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
36. 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
37. 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 in order to reconstruct the evaluation and predict the associated risks, acronym CLIMARISC (31-068/2007-2010) – partner
38. 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
39. 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
40. 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
41. 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 coordinator

ANNEXES

Replace with list of documents annexed to your CV. Examples:

- copies of degrees and qualifications;
- testimonial of employment or work placement;
- publications or research.