PERSONAL INFORMATION

# Mihai IOVEA

**ACCENT PRO 2000** SRL
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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**

- QuPix - Pixelated Scintillator for X-ray imaging applications
- Dr..Laser - X-ray mammography imaging with phase contrast
- SmartScint - X-Ray high-resolution pixelated scintillator
- Gamma Ray Imaging experiment using 100TW femto laser interaction with matter.
- Design and development of in-line combined Laser profiler and X-ray imaging scanners for ballistic plates and sintered parts high-accuracy density measurement
- 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
- 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, EU or private companies
- Mentoring, guiding and co-supervising undergraduate and PhD students (Mummering, Ice-Link..)
- 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 system for Soft X-Ray plasma diagnostics at NSTX Tokamak;
- Design and development of data acquisition and software packages for Soft X-Ray 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 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

**B.Sc. Technology Physics**

Physics University of Bucharest, Romania

## 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 international communication skills gained through my experience as EU projects coordinator and partner

**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
- 26 years General Manager with R&D private company ACCENT PRO 2000 S.R.L
- Project coordinator/partner in the last 26 years for
  - 23 R&D National funded projects
  - 9 projects financed by EU R&D program (HE, H2020,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 26 years until present
- European Community FP7 Projects Scientific Expert Evaluator
- The Johns Hopkins University-USA External Collaborator 2000-2004
- 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 developer of technical algorithms design and implementation using LabView software development

Other skills

Driving licence B

ADDITIONAL INFORMATION

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

1. Visualization Tool for Hydro Power Plant Operators: Interactive Data Monitoring & Surveillance on Large Screen with Voice Warning, M. Iovea, T.A. Netculescu & E. Hermann, Volumul 12, 2025/08/25; http://escc.uth.gr/wp-content/uploads/2026/01/ESCC-2025_Book-of-Proceedings.pdf
2. 2. Simulation imaging process of laser-induced linear Mie Y photoemission, L Nita, AC Berceanu, JA Ching, G Suliman, E Hermann, M Iovea, Volumul 135, Numărul 20, 2024/5/28
3. 3. Highlighting the Effects of Gamma Irradiation of the Brain Through Non-Conventional X-Ray Imaging, Mihai Iovea, Marian Neagu, Edward Hermann, Monica Mirea, Cosmin Mustaciosu, Roberta Stoica, Mina Raileanu, Daniel Negut, Octavian G Duliu, Mihai Radu, Volumul 76, Numărul 1, 2024/1/1
4. 4. Material classification using basis material decomposition from spectral X-ray CT, Doniyor Jumanazarov, Asalkhon Alimova, Azamat Abdikarimov, Jakeoung Koo, Henning F Poulsen, Ulrik L Olsen, Mihai Iovea, Volumul 1056, 2023/11/1
5. Multi-Energy and Fast-Convergence Iterative Reconstruction Algorithm for Organic Material Identification Using X-ray Computed Tomography, Mihai Iovea, Andrei Stanciulescu, Edward Hermann, Marian Neagu, Octavian G Duliu, Materials, Volumul 16, Numărul 4, 1654, 2023/2/16
6. PRELIMINARY TESTS FOR SPECKLE-BASED X-RAY PHASE-CONTRAST IMAGING: OPTIMIZATION, Laura-Anamaria Nita, Mihai Iovea, Gabriel Suliman, Alexandru Enciu, Marian Neagu, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, Volumul 85, Numărul 1, 149-158, 2023/1/1
7. Material classification using basis material decomposition from spectral x-ray CT, Doniyor Jumanazarov, Asalkhon Alimova, Henning F Poulsen, Ulrik L Olsen, Mihai IOVEA, Articole Google Academic, https://doi.org/10.21203/rs.3.rs-2260614/v1 , 2022/11/16
8. Significance of the spectral correction of photon counting detector response in material classification from spectral X-ray CT, Doniyor Jumanazarov, Jakeoung Koo, Henning F. Poulsen, Ulrik L. Olsen, Mihai Iovea, *J. Med. Imag.* **9**(3), 034504 (2022), doi: 10.1117/1.JMI.9.3.034504, http://dx.doi.org/10.1117/1.JMI.9.3.034504
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10. Non-Destructive X-ray Characterization of a Novel Joining Method Based on Laser-Melting Deposition for AISI 304 Stainless Steel, MA Mahmood, D Chioibasu, S Mihai, M Iovea, IN Mihailescu, AC Popescu, Materials 14 (24), 7796, 2021
11. Development of a non-destructive testing system for the automated inspection of ceramic armour plates and parts, M Iovea, M Cerit, A Tunc, JD Stephenson, K Gündoğdu, AIP Conference Proceedings 2380 (1), 040004, 2021
12. 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
13. 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
14. EFFECTIVE Z EVALUATION USING MONOENERGETIC GAMMA RAYS AND NEURAL NETWORKS G. V. Turturica V. Iancu, A. Pappalardo, P.-A. Söderström, E. Açıksöz, D. Balabanski, L. Capponi, P. Constantin, V.Fugaru, L. Guardo, M Ilie, S. Ilie, M. Iovea, D. Lattuada, D. Nichita, T. Petruse, A. Spataru, and C. A. Ur , 2019 EPJ Plus - The European Physical Journal Plus 135 (2), 1-13
15. Wideband Sub-terahertz Coplanar Waveguide-Fed Spiral Antenna, AC Bunea, D Neculoiu, MA Avram, M Iovea, SCIENCE AND TECHNOLOGY 23 (2), 140-156, 2020
16. 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
17. HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY WITH ELIADE AT THE EXTREME LIGHT INFRASTRUCTURE. PA Söderström, G Suliman, CA Ur, D Balabanski, T Beck, L Capponi, ..., Acta Physica Polonica B 50 (3), 2019
18. PRELIMINARY THEORETICAL APPROACH FOR MATERIALS ELEMENTAL COMPOSITION IDENTIFICATION USING X - RAYS SPECTRAL TRANSMISSION DATA, E. Hermann, O. G. Duliu, M. Iovea, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Vol. 20, No. 7-8, July – August 2018, p. 410 - 418 (2018);
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20. 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);
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22. 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;
23. 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
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28. 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;
29. 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);
30. 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
31. 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
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33. 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
34. 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.

35. 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
36. 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)
37. SIMULATION STUDY ON CUMPUTER 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
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39. 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 ;
40. 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
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44. 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
45. 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. Duliu; S.I. Lyapunov, A.V. Gorbunov, C. Ricman, T. Brustur, M.V. Frontasyeva, O.A. Culicov and M. Iovea
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## Projects

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3. Platforma Nationala pentru Tehnologiile Semiconductorilor - PNTS, 27.11.2024 – 26.11.2029, MINISTERUL INVESTIȚIILOR ȘI PROIECTELOR EUROPENE (MIPE), Programul Crestere Inteligenta, Digitalizare si Instrumente Financiare 2021 – 2027 (PCIDIF)
4. Integration of Advanced Experiments, Computation and Data for Innovation in Freeze Casting and Advanced Porous Structures - ice-Link, 01.01.2024 – 31.12.2027, European Commission - Program Marie-Curie
5. DIGITAL MAINTENANCE FOR SUSTAINABLE AND FLEXIBLE OPERATION OF HYDROPOWER PLANT - Di-Hydro, 01.10.2023 – 30.09.2026, European Commission - Horizon Europe
6. X-Ray Density measurement equipment – DensitiX, 27.11.2023 – 30.09.2024, SINTEX A/S, Danemarca
7. LASER-DRIVEN GAMMA IMAGING STUDIES AND EXPERIMENTS FOR APPLICATIONS DEVELOPMENT - ELI-NP, Magurele, ILFOV
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10. Imbunatatirea tehnicilor de imagistica cu raze X neconventionale pentru investigarea efectelor iradierii tesuturilor biologice cu doze de radiatii gama monitorizate – BIOIMAGING, 01.07.2021- 23.01.2023, FONDUL EUROPEAN DE DEZVOLTARE REGIONALĂ, PROGRAMUL OPERAȚIONAL COMPETITIVITATE 2014-2020, AxaPrioritară 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea 1.2.3, Tip proiect – Parteneriate pentru transfer de cunoștințe
11. X-CAPS Automatic Digital X-Ray Radiography System For Medical Capsules and Small Parts, 22.04.2020 – 21.04.2023, QUALICAPS Romania SRL
12. 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, 14.02.2020 – 04.10.2021, Integrity NDT, Turcia
13. New advanced technologies for surfaces deposition by using high-power lasers for increasing the materials reliability and performances – PRELAM, 01.09.2019 – 31.12.2022, FONDUL EUROPEAN DE DEZVOLTARE REGIONALĂ prin PROGRAMUL OPERAȚIONAL COMPETITIVITATE 2014-2020, Axa Prioritară 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea 1.2.3, Tip proiect – Parteneriate pentru transfer de cunoștințe
14. Enabling X-ray CT based industry 4.0 process chains by training next generation research experts, xCTing, partner, March 2021 to February, 2025, MSCA-ITN-2020-ETN (Marie Skłodowska-Curie Innovative Training Networks), MSCA-ITN-ETN (European Training Networks), Proposal number: 956172
15. Development of a dedicated Non-destructive equipment for ballistic plates in-line control - NUROL Teknoloji A.S., coordinator
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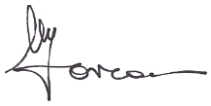
18. Sistem de imagistica pasiva cu unde milimetrice pentru scanarea rapida a persoanelor cu aplicații in domeniul securitati - acronim BODYSCAN, coordinator, 08.03.2018 – 07.05.2021, FONDUL EUROPEAN DE DEZVOLTARE REGIONALĂ, PROGRAMUL OPERAȚIONAL COMPETITIVITATE 2014-2020, AxaPrioritară 1 – Cercetare, dezvoltare tehnologică și inovare (CDI) în sprijinul competitivității economice și dezvoltării afacerilor, Acțiunea 1.2.3, Tip proiect – Parteneriate pentru transfer de cunoștințe
19. MUltiscale, Multimodal and Multidimensional imaging for EngineeRING - acronim MUMMERING, Partner, 01.01.2018 – 31.12.2021, European Commission - Horizon 2020 – Marie Sklodowska-Curie
20. Noi tehnologii avansate de acoperire a suprafetelor folosind fascicul laser de mare putere in vederea cresterii fiabilitatii si a performantelor materialelor – PRELAM, partener
21. 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
22. Security applications development at ELI-NP: detecting concealed threatening materials by using Nuclear Resonance Fluorescence and 2D/3D tomography with gamma beams – acronym ELI_THREAT_DETECT, 2017-2019, coordinator, 10.2017 – 12.2019, Ministerul Crecetarii si Inovarii, PNCDI 2015 – 2020, Programul 5, Subprogramul 5.1 Programul de cercetare, dezvoltare și inovare pentru tehnologii în domeniul laserilor de ultra-înaltă putere – ELI-RO

23. Support action for gamma beam industrial imaging applications development at ELI-NP – acronym ELITOMO, 2016-2019, coordinator, 09.2016 – 08.2019, ANCSI, PNCDI 2015 – 2020, Programul 5, Subprogramul 5.1 Programul de cercetare, dezvoltare și inovare pentru tehnologii în domeniul laserilor de ultra-înaltă putere – ELI-RO
24. 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
25. Advanced X-Ray Imaging System for Aerospace Components Structural Integrity Investigation (DUALXSCAN), 2012 – 2015, coordinator, Romanian Space Agency - STAR
26. Contract no.323E/01.10.2012 for co-financial support of Romanian partners in EUREKA-EUROSTARS projects participation (DCXScan), 2012 – 2015, coordinator
27. NextGen Scanner for Checked In Luggage – acronym **CIL2018**, European funded projects, 2016-2018, Coordinator: The Technical University of Denmark, Partner
28. 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
29. 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/
30. Design and development of Soft X-ray Photodiodes data Acaqusition System for Tokamak's plasma X-ray Imaging, Contract with The Johns Hopkins University, Maryland USA, 2012-2013, coordinator
31. Contract no.190EU/22.10.2012 for co-financial support of Romanian partners in FP7 projects participation, acronym AUTOINSPECT, 2012 - 2013coordinator
32. EC-FP7 **PLASTRONICSSPEC** Project X-Ray Non-Destructive Testing of OLED Display, 2012 – 2013, coordinator
33. Contract no.194EU/22.10.2012 for co-financial support of Romanian partners in FP7 projects participation (ChipCheck), 2012 – 2013, coordinator
34. Digital Colour X-ray Security Scanning System - acronym DCXScan , Eureka Eurostars Project E!7308, 2012-2014, Partner
35. 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. plastronicsspec.com
36. 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/
37. 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/
38. Experiments and improvements for Dual-energy X and gamma ray radioscopy and Tomography for baggage and truck screening, 2009-2010 (private customer) – coordinator
39. Preliminary Experiments with X-Ray backscattering technique for airport passenger screening, 2010 (private customer)- coordinator
40. 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
41. 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, PNII PC D8 Security
42. Experiments and algorithms in Electrical Impedance Tomography – European Commission, FP5 PECO/COPERNICUS - CIPD940254 - partner
43. In Process Control with Optical Coherence Tomography - acronym IPC-OCT –FP6 CRAFT –COOP-CT, 2003-2005 GA 507825 – partner, January, 2004 to December, 2006,
44. 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, January, 2008 to December, 2009, European funded project
45. 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
46. 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, January, 2007 to December, 2010, PN II PC D3 Environment
47. 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
48. 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 , PN II PC D3 Environment
49. 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

50. 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 ccordinator, January, 2005 to December, 2005, Private funded project

Mihai IOVEA



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