

PERSONAL INFORMATION

Mihai IOVEA



-  Accent Pro 2000 SRL
-  +40213204759  +40745182660
-  [mihai.iovea@accent.ro](mailto:mihai.iovea@accent.ro)
-  [http://accent.ro/sites/default/files/mihai\\_iovea\\_curriculum\\_vitae .pdf](http://accent.ro/sites/default/files/mihai_iovea_curriculum_vitae.pdf)
-  Skype: mihai.iovea

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, H<sub>2</sub>, 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](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

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

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3. 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
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11. Wideband Sub-terahertz Coplanar Waveguide-Fed Spiral Antenna, AC Bunea, D Neculoiu, MA Avram, M Iovea, *SCIENCE AND TECHNOLOGY* 23 (2), 140-156, 2020
12. 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
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15. 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
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33. 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
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3. LASER-DRIVEN GAMMA IMAGING STUDIES AND EXPERIMENTS FOR APPLICATIONS DEVELOPMENT
4. sHip inspection by auTonOmouseRone - HECTOR
5. Imbunatatirea tehnicilor de imagistica cu raze X neconventionale pentru investigarea efectelor iradierii tesuturilor biologice cu doze de radiatii gama monitorizate
6. X-CAP Automatic Digital X-Ray Radiography System For Medical Capsules and Small Parts
7. 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
8. New advanced technologies for surfaces deposition by using high-power lasers for increasing the materials reliability and performances - PRELAM
9. Enabling X-ray CT based industry 4.0 process chains by training next generation research experts, xCTing, partner
10. Development of a dedicated Non-destructive equipment for ballistic plates in-line control - NUROL Teknoloji A.S., coordinator
11. X-Shaper dedicated non-destructive equipment for ballistic plates in-line control
12. Developing static tomographic machines equipped with new X-ray algorithms for the next generation of 3D baggage scanners- Gilardoni, coordinator
13. Sistem de imagistica pasiva cu unde milimetrice pentru scanarea rapida a persoanelor cu aplicatii in domeniul securitati - acronim BODYSCAN, coordinator
14. MULTiscale, Multimodal and Multidimensional imaging for EngineERING - acronim MUMMERING, Partner
15. Noi tehnologii avansate de acoperire a suprafetelor folosind fascicul laser de mare putere in vederea cresterii fiabilitatii si a performantelor materialelor – PRELAM, partener
16. 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
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37. Experiments and algorithms in Electrical Impedance Tomography – FP5 PECO/COPERNICUS - CIPD940254 - partner
38. In Process Control with Optical Coherence Tomography - acronym IPC-OCT –FP6 CRAFT –COOP-CT, 2003-2005 GA 507825 – partner
39. 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
40. 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
41. 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
42. 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
43. 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
44. 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
45. 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

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

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