



**Europass
Curriculum Vitae**



Personal information

First name(s) / Surname(s) **Ioan NICOLAESCU**
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Fax(es) +4021335 5763
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Nationality Romanian

Date of birth

Gender male

Desired employment / Occupational field / **Engineering/Professor**

Work experience 28 years

Dates **2008 - up to present**

Occupation or position held Vice rector for education / Professor at the Communications and Military Electronic Systems Department;
Main activities and responsibilities Management/University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer Military Technical Academy, George Coşbuc Avenue no.39-49, Bucharest, Romania
Type of business or sector Education/Scientific research

Dates **2004 - 2008**

Occupation or position held Dean of Faculty of Military Electronic and Computer Science Systems, Professor at the Communications and Military Electronic Systems Department;
Main activities and responsibilities Management/University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer Military Technical Academy, George Coşbuc Avenue no.81-83, Bucharest, Romania
Type of business or sector Education/Scientific research

Dates **From 2003 –to 2004**

Occupation or position held Professor at the Department of Radiolocation and Missiles Guidance
Main activities and responsibilities University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer Military Technical Academy, George Coşbuc Avenue no.81-83, Bucharest, Romania
Type of business or sector Education/Scientific research

Dates	From January 2002 –to April 2003
Occupation or position held	researcher Delft University of Technology, The Netherlands,
Main activities and responsibilities	Scientific research activities
Name and address of employer	Delft University of Technology, The Netherlands
Type of business or sector	Scientific research
Dates	From 2001 –to 2002
Occupation or position held	professor at the Department of Radiolocation and Missiles Guidance;
Main activities and responsibilities	University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer	Military Technical Academy, George Coşbuc Avenue no.81-83, Bucharest, Romania
Type of business or sector	Education/Scientific research
Dates	From 1997 – up to 2001
Occupation or position held	Associate Professor at the Department of Radiolocation and Missiles Guidance;
Main activities and responsibilities	University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer	Military Technical Academy, George Coşbuc Avenue no.81-83, Bucharest, Romania
Type of business or sector	Education/Scientific research
Dates	From 1995 – up to 1997
Occupation or position held	Lecturer, Faculty of Electronics and Informatics, Military Technical Academy
Main activities and responsibilities	University education activities/Scientific research activities/Students supervising/Management of educational activities
Name and address of employer	Military Technical Academy, George Coşbuc Avenue no.39-49, Bucharest, Romania
Type of business or sector	Education/Scientific research
Dates	From 1985 –to 1995
Occupation or position held	Researcher at Center of Studies and Research for Electronics and Informatics;
Main activities and responsibilities	Scientific research activities
Name and address of employer	Military Technical Academy, George Coşbuc Avenue no. 39-49, Bucharest, Romania
Type of business or sector	Education/Scientific research
Dates	From 1984 – up to 1985
Occupation or position held	1985 project engineer at the research department of a military workshop;
Main activities and responsibilities	-design and implementation of a radio-interceptor 8-12 GHz band; -documentation of performance benchmarks of repair work
Name and address of employer	Air Forces Headquarter
Type of business or sector	Engineering Design

Education and training

National Defence College	2009
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Security and good governance
Name and type of organisation providing education and training	National Defense University
Level in national or international classification	

Dates	18-22.04.2005
Title of qualification awarded	Graduation certificate

Principal subjects/occupational skills covered NATO – Intelligence Warning Systems
Name and type of organisation providing education and training NATO School, Oberammergau, Germany
Level in national or international classification

Dates **September – October 2004**

Title of qualification awarded
Principal subjects/occupational skills covered Research stage
Name and type of organisation providing education and training Delft University of Technology, The Netherlands
Level in national or international classification

Dates **May – October 2000**

Title of qualification awarded Graduation certificate
Principal subjects/occupational skills covered System Engineering
Name and type of organisation providing education and training Cranfield University, Royal Military College of Science, United Kingdom
Level in national or international classification

Dates **From 1991- up to 1997**

Title of qualification awarded PhD, Electronic Engineering and Telecommunication (scientific domain)
Principal subjects/occupational skills covered
Name and type of organisation providing education and training Military Technical Academy
Level in national or international classification ISCED 6

Dates **From 1987- up to 1992**

Title of qualification awarded Economist
Principal subjects/occupational skills covered Economical Informatics
Name and type of organisation providing education and training Academy of Economical Studies, Faculty of Cybernetics, Statistics and Economical Informatics
Level in national or international classification ISCED 6

Dates **From 1979 – up to 1984**

Title of qualification awarded Engineer, Communications and Military Electronic Systems Department
Principal subjects/occupational skills covered Radio Communications, Microwaves, Antennas and propagation , Information systems, Radar
Name and type of organisation providing education and training Military Technical Academy
Level in national or international classification ISCED 5

Dates **From 1975 –to 1979**

Title of qualification awarded High-school diploma, Physics-Mathematics (profile)
Principal subjects/occupational skills covered Mathematics, Physics,

Name and type of organisation providing education and training Military High School “Stefan cel Mare” (Campulung Moldovenesc)

Level in national or international classification ISCED 3

Personal skills and competences

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment <i>European level</i> (*)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1 -	C1 -	C1 -	C1 -	C1 -
French	B2 -	B1 -	B1 -	B1 -	B1 -

(*) [*Common European Framework of Reference for Languages*](#)

Social skills and competences Team leader spirit, very good communication capacity, long term working tasks assignments

Organisational skills and competences Large experience as a team leader, Critical decision capabilities

Technical skills and competences Very good skills and competences in the field of antennas and propagation, radio communications systems, information systems, ground penetrating radar, radar systems, MIMO, RCS

Computer skills and competences Engineering software: C++, Matlab, Mathcad, HFSS
Common software: Windows, Microsoft Office, Microsoft Project, Microsoft Visio
Dedicated software in the field of propagation analysis, wireless networks and antennas design

Driving licence B and C categories

Other skills and competences

Publications: 10 ISI journals papers; 9 papers in revues abroad; over 30 conference papers in IEEE international databases , 3 research reports at TUDelft, The Netherlands; over 30 research reports at Military Technical Academy; one book chapter at John Wiley & Sons, Inc.; 9 books.

- chairman or co-chairman for sections of conferences;

- reviewer for: EuMW 2008, 2009, 2010, 2011, 2012, 2013, 2014, PIERS, Microwave Journal, Wireless Personal Communications Kluwer Academic Publisher 1st International Conference on Cybernetics and Information Technologies, Systems and Applications CITSA, Florida, USA;

-invited speaker at MRRS 2008 (<http://congress.nau.edu.ua/mrrs08/index.php?topic=speakers>) Kiev, Ukraine;

-invited speaker at European Defense Conference 2011

- conference chair for Communications 2010 conference <http://www.comms.ro/>;

- conference chair for Communications 2012 conference <http://www.comms.ro/>

- conference chair for Communications 2014 conference <http://www.comms.ro/>

- conference chair for Communications 2016 conference <http://www.comms.ro/>

-TPC member of IEEE BlackSeaCom <http://www.ieee-blackseacom.org/2015/tpcmembers.html>

- Member of professional associations:

- European Microwave Association EuMA A 1331

- International Electrical and Electronic Engineering Association IEEE member No 90690838

- member of Management Committee for COST Antenna Systems & Sensors for Information Society Technologies (ASSIST)

http://w3.cost.esf.org/index.php?id=177&action_number=IC0603

- member of Management Committee for COST Action IC1102 Versatile, Integrated, and Signal-aware Technologies for Antennas (VISTA)

http://www.cost.esf.org/domains_actions/ict/Actions/IC1102?management ;

- evaluator ARACIS <http://pfe.aracis.ro/inscriere/registru/evaluator/826/>

- special session organizer at 7th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2015 AFCEA -Wireless systems for defense <http://www.ecai.ro/Special%20sessions.php>

- local organizer of 6th Management Committee and Working Group Meeting and Workshop COST VISTA-Bucharest, 2014 <http://www.cost-vista.eu/events/6th-management-committee-and-working-group-meeting-and-workshop/> ;

-over 170 citations in international databases

(<https://scholar.google.com/citations?user=AyLk8VwAAAAJ&hl=en>) ;

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Annexes

Excerpt of published scientific papers, books and scientific research projects, list of inventions and international awards

Annex 1

a) Journals

ISI JOURNALS- Excerpt

1. Ioan Nicolaescu, Improvement of stepped frequency continuous wave ground penetrating radar cross range resolution, IEEE Transactions on Geoscience and Remote Sensing, Volume 51, Issue 1, 2013, pp 85-92, ISSN : 0196-2892 , Impact factor 3.514.
2. Ioan Nicolaescu, Piet van Genderen, Performances of a stepped-frequency continuous-wave ground penetrating radar, Journal of Applied Geophysics, Volume/issue 82, 2012, pp. 59-67, Impact factor (5 years) 1.742.
3. Ovidiu Gabriel Avădănei, Gabriel Banciu, Ioan Nicolaescu, Liviu Nedelcu, Superior Modes in High Permittivity Cylindrical Dielectric Resonator Antenna Excited by a Central Rectangular Slot , IEEE Trans. Antennas and Propagation, ISSN : 0018-926X, Volume: 60 , Issue: 11 , Page(s):5032 – 5038, 2012, Impact factor 2.181.
4. Koen W.A. van Dongen, Peter M. van den Berg, and Ioan Nicolaescu, Subsurface imaging using measured near-field antenna footprints, Near Surface Geophysics, February 2004, Vol. 2, Number 1, pp. 31-37, ISSN: 1569-4445, Impact factor 1.179.

5. Nicolaescu Ioan, Piet van Genderen, Archimedean spiral antenna calibration procedures to increase the down range resolution of a SFCW radar, International Journal on Antennas and Propagation, 2008 Issn: 16875869, EIssn: 16875877, Impact factor 0.660.
6. Nicolaescu Ioan, Radar absorbing materials used for target camouflage, Journal of Optoelectronics and Advanced Materials, No 1. pp 333-341, February, 2006, ISN 1454-4164, Impact factor 0.43.
7. A. Ioachim, M. G. Banciu, M. I. Toacsan, L. Nedelcu, C. A. Dutu, I. Radu, I. Nicolaescu Development of X-Band Filter with ZST Dielectric Resonators Romanian Journal of Information Science and Technology , ISSN: 1453-8245 Volume 8, Number 4, 2005 (pp. 281–394).
8. I. Nicolaescu, Tapered conductivity material for radar cross section reduction, Journal of Optoelectronics and Advanced Materials, Vol.11 ISS.5- 2009 No 5. p. 728 – 735, Impact factor 0.43.
9. Nicolaescu Ioan, Absorbing properties of materials with variable conductivity, Sbornik magazine no 1, Brno, Check Republic, 2001, ISSN 1211-1023.

INTERNATIONAL MAGAZINE PUBLICATIONS- Excerpt

1. Cristian-Liviu Leca, Ioan Nicolaescu, Cristian-Iulian Rîncu, Significant Location Detection & Prediction in Cellular Networks using Artificial Neural Networks, Journal of Computer Science and Information Technology 3(3): 81-89, 2015.
2. Nicolaescu Ioan, Multilayered structures for decreasing of reflective cross section of metallic surfaces, Bolyai Szemle, no.4 2000, p 89-97, Budapest, ISSN 1416-1443.
3. Nicolaescu Ioan, 2001, Electromagnetic absorbers with variable conductivity, Bolyai Szemle magazine, no. 2 /2001, Budapest, ISSN 1416-1443.
4. Nicolaescu Ioan, Array signal processing-null steering, Bolyai Szemle, Budapest, 2001, ISSN1416-1443
5. Nicolaescu Ioan, Nonuniform amplitude current distribution array, pp113-123, Bolyai Szemle, Budapest, Issue 4, 2001, ISSN1416-1443
6. Nicolaescu Ioan, Gheorghe Iubu, Adian Stoica, Adrian Radu, “Jamming signal removal by null steering”, Academic and Applied Research in Military Science Magazine, Volume 4, Issue 3, 2004, Budapest-Hungary, ISSN-1588-8789.
7. Iubu Ghe., Nicolaescu I., Iosif D., Stoica A., “ A comparison between different types of weighting function used for radar antennas” Academic and Applied Research in Military Science Magazine, Volume 3, Issue 3, 2004, ISSN-1588-8789, pp 415-426, Budapest-Hungary

NATIONAL MAGAZINE PUBLICATIONS- Excerpt

1. Nicolaescu, I., Genderen van P., Modified two antennas method for ultrawideband spiral antenna characterization, Revista Academiei Tehnice Militare, Nr. 1, pp 47-55, Bucharest 2006, ISSN 1453-259X.
2. Piet van Genderen, Ioan Nicolaescu, Integration and interaction in the world of radar, MTA Review, Nr. 3, Bucharest 2007, ISSN 1453-259X.
3. Cătălin Moraru, Ioan Nicolaescu, Leontin Tuță, Mădălina Moni - Scaled model F16 RCS evaluation by time-frequency measurements, Revista Tehnica Militară, 2014.

b) Conference proceedings papers- Excerpt

CONFERENCE PAPERS PUBLISHED IN INTERNATIONAL DATABASES IEEE Xplore (INSPEC), ISI Proceedings etc

1. Leontin Tuță, Ioan Nicolaescu, Mădălina Moni, Marian Gabriel Banciu, Time-frequency domain radar cross section evaluation of an IAR 99 scaled model aircraft, 7th International Conference on Electronics, Computers and Artificial Intelligence ECAI 2015, June 25– June 27, Bucharest, 2015.
2. AM Pisteu, I Nicolaescu, E Radoi, L Tuta, Parametric estimation of UWB signals with sub-Nyquist sampling, International Symposium on Signals, Circuits and Systems (ISSCS), 2015, Iassy, Romania.
3. Dragos C. Geambasu, Leontin Tuță, Marian G. Banciu, Liviu Nedelcu, Ioan Nicolaescu, Compact antenna using ZST low-loss high dielectric constant material, 22nd TELFOR Conference, 25-27.11.2014, Belgrad, Serbia
4. George Casu, Leontin Tuță, Ioan Nicolaescu, Cătălin Moraru, Some aspects about the advantages of using MIMO Systems, 22nd TELFOR Conference, 25-27.11.2014, Belgrad, Serbia.
5. Nicolaescu, I.; Coman, C.; Moraru, C., Synthetic aperture antenna procedure for a SFCW sensor, 8th International Conference on Communications (COMM), 2010, vol., no., pp.243-246, 10-12 June 2010
6. Nicolaescu Ioan, Stoica Dan, Smart antennas for wireless communications systems, 20th International Conference on Applied Electromagnetics and Communications-ICECom 2010, Dubrovnik, Croatia, September 20-23, pp 1-4, ISBN 978-953-6037-58-2 Issue Date: 20-23 Sept. 2010 On page(s): 1 - 4

7. Mazăre, P.; Szilagyı, A.; Stoica, D.-S.; Căzănarı, D.; Stoica, A.; Mazăre, C.; Nicolaescu, I.; , The generated curve in symmetrical plane for double curved antenna reflector with Cosec^2 pattern beam, illuminated by a Cos^4 pattern beam for primary radiator, Communications (COMM), 2010 8th International Conference on , pp.251-254,
8. Nicolaescu, Ioan; Iubu, Gheorghe; Simple and Collected Targets Radar Cross Section International Conference on Electromagnetics in Advanced Applications, 17-21 Sept. 2007 Page(s):295 - 298, Torino, Italy
9. Nicolaescu I., Goga G., Banciu M. G., Ioachim A., Fractal antennas for wireless communications, International Workshop on Antenna Technology Small antennas and novel Metamaterials, Chiba, Japan, March, 2008, ISBN 978-1-4244-1522-5, Page(s):207 - 210
10. Nicolaescu, Ioan; Cernat, Mihai, Radar cross section of some simple and collected targets to be used for classification; First European Conference on Antennas and Propagation, EuCAP 2006. 6-10 Nov. Page(s):1 - 5
11. Nicolaescu, Ioan; Genderen, Piet van, Ultra wideband spiral antenna time delay removal; First European Conference on Antennas and Propagation, EuCAP 2006, 6-10 Nov. Page(s):1 - 6
12. Vizitiu Iulian-Constantin; Nicolaescu Ioan, More efficient ATR system using the decision fusion between HRR and video imaginary, Microwaves, Radar and Remote Sensing Symposium, 2008 Page(s): 272-275
13. Nicolaescu Ioan; van Genderen, Piet Procedures to improve the performances of a SFCW radar used for landmine detection Microwaves, Radar and Remote Sensing Symposium, 2008, Page(s): 250-255
14. van Genderen, P.; Nicolaescu, I, Imaging of stepped frequency continuous wave GPR data using the Yule-Walker parametric method.; European Radar Conference, 2005., Page(s):77 - 80
15. Nicolaescu, I., Teodorescu S., Some Considerations About Simple Shapes Ultrawideband RCS, Microwaves, Radar and Remote Sensing (MRRS-2005), 19-21 September, Kiev, Ukraine.
16. Coman, C.I.; Nicolaescu, I.; Lager, I.E.; Ligthart, L.P Experimental study of thinned array antennas by means of synthetic aperture radar measurements; First European Radar Conference, 2004, Page(s):165 - 168
17. Some experience with the use of spiral antennas for a GPR for landmine detection van Genderen, P.; Nicolaescu, L.; Zijderveld, J.; Proceedings of the International Radar Conference 3-5 Sept. 2003 Page(s):219 - 223
18. Nicolaescu, I.; van Genderen, P.; Van Dongen, K.W.; van Heijenoort, J.; Hakkaart, P Stepped frequency continuous wave radar-data preprocessing.; 14-16 May 2003 Page(s):177 - 182
19. van Genderen, P.; Nicolaescu, I, System description of a stepped frequency CW radar for humanitarian demining.; Proceedings of the 2nd International Workshop on Advanced Ground Penetrating Radar, 2003. 14-16 May 2003 Page(s):9 - 15
20. Nicolaescu, I.; Oroian, T.; Radar cross section International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Service, 2001. TELSIKS 2001. 5th Volume 1, 19-21 Sept. 2001 Page(s):65 - 68 vol.1
21. Nicolaescu, I.; Losif, F.D.;Null steering arrays, 5th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Service, 2001. TELSIKS 2001. , Volume 2, 19-21 Sept. 2001 Page(s):679 - 682

INTERNATIONAL CONFERENCE PAPERS

1. Nicolaescu Ioan, Radioborbing Structures Multilayered with Electrical Losses, Second International Congress in Materials Science and Engineering, Bulletin of The Polytechnic Institute of Jassy, Tomul XLII(XLVI), Fasc 3-4, pag. 651. Iași 1996.
2. Nicolaescu Ioan, Radioabsorbing Magnetic Materials, Second International Congress in Materials Science and Engineering, Bulletin of The Polytechnic Institute of Jassy , Tomul XLII(XLVI), Fasc 3-4, pag. 657. Iași 1996.
3. Nicolaescu Ioan, Radu Adrian, Absorbative coating for the reduction of reflective cross section of metallic surface. The XIII-the International Conference on Microwave Ferites, Conference proceedings pag. 337, Bușteni 1996
4. Scheianu Dumitru, Runcan Ioan, Țăranu Gheorghe, Nicolaescu Ioan, ș.a.,Materiel pour les ecrans absorbants de micro-ondes, Le 46-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, "Brussels Eureka", Belgique, 1997 poster, Catalogue officiel, pag. 121.
5. Nicolaescu Ioan, ș.a., Ensemble de micro-ondes pour la reception des signaux a polarisation circulaire, continue et en impulsions, dans la bande 12-16 GHz, Le 46-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, "Brussels Eureka", Belgique, poster, Official catalogue, pag. 167.
6. Nicolaescu Ioan, ș.a. Microwave absorbing screen based on ferrites, The 48th World Exhibition of Innovation, Research and New Technology, "Brussels Eureka' 99, Belgia, poster, Official catalogue.
7. Runcan Ioan, Nicolaescu Ioan, ș.a., Compositions of microwave absorbing putties, The 48th World Exhibition of Innovation, Research and New Technology, "Brussels Eureka' 99, Belgia, poster, Official catalogue.
8. Nicolaescu Ioan, Methods for radar cross section reduction The thirty second scientific conference with international participations of Romanian Defence Agency, Proceedings, vol 1, pag. 59, ISBN 973-0-02313-1, 2001.
9. Nicolaescu Ioan, Information technology-neural nets, The proceedings of the fifth international symposium on economic informatics, pag 1041,ISBN 973-99450-4-X, Bucharest, 2001.
- 10 Nicolaescu Ioan, ș.a., Adaptive null control arrays, Bulgarian Union of Automation and Informatics, International Conference, May 31-June 2, 2001, Proceedings, pag A-65, ISBN 954-9641-24-4, Bulgaria.
- 11 Nicolaescu Ioan, ș.a., C++ interactive application for optimization of multilayered structures, Bulgarian Union of Automation and Informatics, International Conference, May 31-June 2, ISBN 954-9641-24-4, 2001, Proceedings, pag. I-37, Bulgaria.

- 12 Nicolaescu Ioan, Waves propagation through lossy media, IEEE International Conference on Telecommunications, ICT 2001, 4-7 June 2001, Bucharest, Romania, Proceedings, pag. 175, ISBN 973-99995-1-4.
- 13 Nicolaescu Ioan, Adaptive null steering arrays, IEEE International Conference on Telecommunications, ICT 2001, 4-7 June 2001, Bucharest, Romania, Proceedings, pag.35, ISBN 973-99995-1-4.
- 14 Nicolaescu Ioan, ș.a., Computer aided application for arrays with nonuniform amplitude distribution designing, The 15th International Conference "Systems for Automation of Engineering and Research-SAER'2001", 21-23 Sept. 2001, ISBN 954-8329-33-6, Varna, Bulgaria.
- 15 Nicolaescu Ioan, ș.a., Information systems-database for requirements management, The 15th International Conference Systems for Automation of Engineering and Research-SAER'2001, 21-23 Sept. 2001, ISBN 954-8329-33-6, Varna, Bulgaria.
- 16 Nicolaescu Ioan, ș.a., Using computer facilities for studying the influence of aperture current distribution to radiation pattern of an array, The 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001), 22-25 July, Orlando, USA, Proceedings, volume IX, pp 484-488, ISBN 980-07-7549-8.
- 17 Nicolaescu Ioan, ș.a. $\lambda/4$ absorbing materials, The 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001), 22-25 July, Orlando, USA, Proceedings, volume IX, pp 444-447, ISBN 980-07-7556-8.
- 18 Nicolaescu Ioan, Linear broadside arrays fed with different amplitude current distributions., The 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001), 22-25 July, Orlando, USA, Proceedings, volume IX, pp 448-451, ISBN 980-07-7556-8.
- 19 Nicolaescu Ioan, Piet van Genderen, Johan Zijderveld, Archimedean spiral antenna used for stepped frequency radar -footprint measurements, Antenna Measurement Techniques Association AMTA 2002, USA, pp 555-560, November 2002.
- 20 Iubu Ghe., Nicolaescu I., Doru I, Stoica I., Gherasim Z., Field distributions used in radar antenna systems, World Multiconference on Systemics, Cybernetics and Informatics (SCI 2002), Electronics, Informatics and Control Systems, Orlando, USA, Proceedings, volume XII.
- 21 Nicolaescu Ioan, Piet van Genderen, Joost van Heijenoort, 2003, Range resolution and calibration of an ultra wideband stepped frequency continuous wave ground penetrating radar, International Radar Symposium 2003, Germany, Conference Proceedings, pp 301-306.
- 22 Ioan Nicolaescu, Piet van Genderen, 2003, Ultrawideband spiral antenna used for stepped Frequency radar, The 30th session of scientific papers presentations Modern Technologies in the XXI, Proceedings, pp 77-81, Bucharest, ISBN 973-640-012-3
- 23 Gheorghe Iubu, Ioan Nicolaescu, Adrian Stoica, Nicușor Bîrsan, Signal processing to precisely estimate the distance with Doppler, continuous wave, short range radar system, The 30 th session of scientific papers presentations Modern Technologies in the XXI, Proceedings, pp 69-73, 2003, Bucharest, ISBN 973-640-012-3
- 24 Ioan Nicolaescu, Piet van Genderen, 3 D imaging using an SFCW radar", International conference "Communication 2004", pp365-370, Proceedings, vol 2, ISBN 973-640-037-9, Bucharest, Romania, June 2004.
- 25 Ioan Nicolaescu, Gheorghe Iubu, Some considerations about the radar cross section, International conference "Communication 2004", pp365-370, Proceedings, vol 2, ISBN 973-640-037-9, Bucharest, Romania, June 2004.
- 26 Vizitiu C., Nicolaescu, I., "The VTRNS systems: structure, implementation, and applications", The Vth International Armament Conference- Scientific Aspects of Armament Technology, Proceedings, pp 1087-1095, ISBN 83-921491-0-6, Waplewo, Poland 2004.
- 27 Molder Cristian, Anton Lucian, Oroian Teofil, Nicolaescu Ioan, Radu Adrian, Object detection in GPR using image processing, Cel de-al XXXVI-lea simpozion de comunicări științifice cu participare internațională, Agenția de Cercetare pentru Tehnică și Tehnologii Militare 26 -27 mai 2005, Bucharest, România.
- 28 Nicolaescu I., Teodorescu S, Negoită M. , Soporan C., Some considerations about radar cross section analysis of simple shapes, Cel de-al XXXVI-lea simpozion de comunicări științifice cu participare internațională, Agenția de Cercetare pentru Tehnică și Tehnologii Militare 26 -27 mai 2005, Bucharest, România, ISBN 973-0-03923-2.
- 29 Anton Lucian, Radu Adrian, Nicolaescu Ioan, Molder Cristian, Oroian Teofil, Some considerations about clutter removal in GPR, Cel de-al XXXVI-lea simpozion de comunicări științifice cu participare internațională, Agenția de Cercetare pentru Tehnică și Tehnologii Militare 26 -27 mai 2005, Bucharest, România, ISBN 973-0-03923-2.
- 30 Nicolaescu, I., Genderen van P., Modified two antennas method for ultrawideband spiral antenna characterization, International conference "Communication 2006", pp275-278, Proceedings, vol 2, ISBN 973-718-479-3,5, Bucharest, Romania, June 2006.
- 31 Nicolaescu, I., Teodorescu S., Radar cross section analyses of some simple shapes, IVth International Symposium on Defence technology, 19-20 Apr. 2006, Budapest, Hungary, ISSN 1416-1443
- 32 Ioan Nicolaescu, Vasile Draghici, Mihai Stanciu, Signals processing and propagation modeling for ground penetration radar, National Defence University, Hungary, 2007
- 33 Nicolaescu Ioan, Sorinel Teodorescu, Ultrawideband radar cross section of some simple shapes, The 32nd International Scientific Conference "Modern Technologies In The XXI Century", 1-2 November, Bucharest, Romania, Proceedings pp7.17-7.23, ISBN 978-640-127-5, 2007

- 34 C.I. Coman, I. Nicolaescu, I.E. Lager, L.P. Ligthart (NLD), Economic radar imaging technique using thinned array Antennas, NATO - SET-129 Specialists Meeting on "Terahertz Wave Technology for Standoff Detection of Explosives and other Military and Security Applications", International Symposium Bucharest 19-20 May, 2008

Workshops

1. Using high K materials to design antennas and antennas "Antenna Systems and Sensors for Information Society Technologies Workshop, Les Diablerets, Switzerland, on 16-18 March 2011
2. Marian Gabriel Banciu, Liviu Nedelcu, Ioan Nicolaescu, DIELELCTRIC RESONATOR ANTENNAS OF ZST AND BNT MATERIALS, Versatile, Integrated and Signal ware Technologies for Antennas-COST IC1102 Workshop, Bucharest, 2014.
3. O. G. Avădănei, I. Nicolaescu , Superior Modes in Probe Feed Cylindrical DRA, Versatile, Integrated and Signal ware Technologies for Antennas-COST IC1102 Workshop, Bucharest, 2014.
4. M. G. Banciu, L. Nedelcu, D. C. Geambasu and I. Nicolaescu, Terahertz Investigations of BST and KDP Ferroelectric Materials, Versatile, Integrated and Signal ware Technologies for Antennas-COST IC1102 Workshop, Sofia, 2015.

Annex 2

BOOKS PUBLISHED IN ROMANIA

1. Nicolaescu Ioan, Gheorghe Iubu, Radar cross section and radioabsorbing materials for decreasing it, Military Technical Academy Publishing House, Bucharest, 2009, ISBN ISBN 978-973-640.
2. Nicolaescu Ioan, Modern communications systems – Radio wave propagation, Military Technical Academy Publishing House, 2008, ISBN 978-973-640-160-2, 224 p.
3. Nicolaescu Ioan, Gherasim Zenovic, Stoica Adrian, Organization's information resources management, Military Technical Academy Publishing House, Bucharest, 2008, ISBN 978-973-640-150-3
4. Nicolaescu Ioan, Antenas and wave propagation, Military Technical Academy Publishing House, Bucharest, 1997, ISBN 973-8290-01-5.
5. Nicolaescu Ioan, Wave propagation through lossy medium. Radiabsorbing materials, Military Publishing House-Bucharest, 2000, ISBN 973-32-0597-7, 171 p.
6. Nicolaescu Ioan, Radu Adrian, Signal processing antenna array , Military Publishing House-Bucharest, 2001, ISBN 973-32-0583-4,
7. Nicolaescu Ioan, Antenna array, Military Technical Academy Publishing House-Bucharest, 2002, ISBN 973-8290-06-6, 168 p.
8. Niculescu Tudor, Gherasim Zenovic, Nicolaescu Ioan, Radiowave propagation and antenna feeder systems –problems vol I., Military Technical Academy Publishing House, Bucharest,199, ISBN 973-8290-03-1
9. Niculescu Tudor, Gherasim Zenovic, Nicolaescu Ioan, Radiowave propagation and antenna feeder systems –problems vol II., Military Technical Academy Publishing House, Bucharest,1995, ISBN 973-8290-04-X.

CHAPTER IN BOOK PUBLISHED ABROAD

1. Ahmet Serdar Turk, P. van Genderen, A.Yarovoy and I. Nicolaescu, GPR Hardware - Stepped-frequency continuous-wave radar, capitol în lucrarea Subsurface Sensing , Ahmet Serdar Turk, Ali Koksai Hocaoglu, and Alexey A.Vertiy, John Wiley & Sons, Inc., Hoboken, New Jersey, U.S.A., August 2011, ISBN: 978-0-470-13388-0 920 pages

INTERNATIONAL RESERCH REPORTS

1. Nicolaescu Ioan, Stepped Frequency Continuous Wave Radar used for landmines detection, research report-IRCTR-S-004-03, 2003, The Netherlands, Delft, 44 p.
2. Nicolaescu Ioan, Parameters analysis of Stepped Frequency Continuous Wave Ground Penetrating Radar used for landmines detection, research report-IRCTR-S-007-03, 2003, The Netherlands, Delft, 42p.
3. Nicolaescu Ioan, Piet van Genderen, 2004, Advanced Relocatable Multisensor system for buried landmine detection Stepped Frequency Continuous Wave Radar- chapter 2, research report-STW-DEL4663/DET 5637, The Netherlands, Delft, 24 p.

Annex 3

List of research projects as project manager

Nr crt	Title	CONTRACT	ROLE	BENEFICIAR
1.	Microwave components manufactured from advanced materials with military applications	2140/13.10.2004, 2004-2006	Director of the project	Program Relansin
2.	Microwave components manufactured from advanced materials with military applications	2140/13.10.2004, 2004-2006	Director of the project	Program Relansin
3.	Security assurance of military installations by decreasing the radar cross section using radioabsorbing materials.	25 R/ 09.12.2005	Director of the project	Program Security
4.	Microwave integrated subassemblies on ZST substrate to miniaturize portable communications and teledetection equipment and systems	24R/09.12.2005	Director of the project	Program Security
5.	Advanced materials, sensors, technologies and infrastructures for C4I systems for security management	Ministry of education order no. 4873 from 08.08.2006	Director of the project	Program interdisciplinary research platforms
6.	Wave propagation through high dielectric constant materials with applications in manufacturing of antennas and sensors for information society technologies	Contract 12-078, 2008	Director of the project	Program PNII
7.	Advanced antennas for space communications	Contract 63/2013	Project manager for MTA	Program PNII

INTERNATIONAL RESEARCH PROJECTS

Nr crt	Title	Additional information
1.	Stepped Frequency Continuous Wave Radar for landmines detection	STW-DEL4663/DET 5637, 2002-2003
2.	GPR antennas- Advanced Relocatable Multisensor system for buried landmine detection, Delft University of Technology, The Netherlands,	STW-DEL4663/DET 5637, 2004
3.	Development of guidelines for the design and implementation of ADL architectures	Implementig arrangement nr.2 A776/26.03.2003
4.	Innovative Antennas for Emerging Terrestrial and Spaced based Applications- Cost 284	http://www.cost.eu/COST_Actions/ict/284
5.	Antenna Systems & Sensors for Information Society Technologies (ASSIST) COST Action IC 0603	http://www.cost.eu/COST_Actions/ict/IC0603
6.	Versatile, Integrated, and Signal-aware Technologies for Antennas (VISTA) ICT COST Action IC1102	http://www.cost.eu/COST_Actions/ict/IC1102?management

PATENTS

1. Scheianu Dumitru, Runcan Ioan, Țăranu Gheorghe, Nicolaescu Ioan, ș.a., Material for microwave absorbing screen, Patent no.101855 din 25.05.1990.
2. Runcan Ioan, Nicolaescu Ioan, ș.a., Screen for microwave absorption and attenuation, Patent no.101856 din 25.05.1990.
3. Runcan Ioan, Nicolaescu Ioan, Compositions of microwave absorbing screen putties, Patent no.106749 din 31.05.1993.
4. Nicolaescu Ioan, ș.a., Microwave absorbing screen based on ferrites, Patent no.106817 din 31.05.1993.
5. Nicolaescu Ioan, ș.a., Microwave ensemble for detection and reception of continuous and pulse signals with circular polarization, in banda 12-18 GHz, Patent no.109691 din 28.04.1995.
6. Nicolaescu Ioan, Multilayered radioabsorbing material with electrical and magnetical losses, Patent no .00118154 / 2003

INTERNATIOAL AWARDS

1. Scheianu Dumitru, Runcam Ioan, Țăranu Gheorghe, Nicolaescu Ioan, ș.a., Matériel pour les ecrans absorbants de micro-ondes, Le 46-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, Brussels Eureka, Belgique, 1997, Medaille d'or.
2. Nicolaescu Ioan, ș.a., Ensemble de micro-ondes pour la reception des signaux a polarisation circulaire, continue et en impulsions, dans la bande 12-16 GHz, Le 46-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, Brussels Eureka, Belgique, 1997, Medaille d'or.
3. Runcan Ioan, Nicolaescu Ioan, ș.a., Compositions de mastices absorbants de micro-ondes, Le 48-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, Brussels Eureka, Belgique, 1999, Medaille d'Argent.
4. Nicolaescu Ioan, ș.a., Ecran absorbant de micro-ondes a base de ferrites, Le 48-eme Salon Mondial de L'Innovation, de la Recherche et des Nouvelles Technologies, Brussels Eureka, Belgique, 1999, Medaille d'or.