CURRICULUM VITAE
EUROPEAN

PERSONAL INFORMATION

Name	**Alexandru Serbanescu**
Address	███████████████████████
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Citizenship	Romanian
Nationality	Romanian

Date of birth	03.02.1943

WORK EXPERIENCE

Dates (from – to)	*1965-1967*
Name and address of employer	„ELECTROMAGNETICA" Factory, Bucharest, Romania
Occupation or position held	**Engineer**
Type of business or sector	*Technologic*
Dates (from – to)	1967-1982
Name and address of employer	*Telecommunications Research Institute, Bucharest, Romania*
Occupation or position held	**Scientific Researcher**
Type of business or sector	Telecommunications Department
Dates (from – to)	*1982-1991*
Name and address of employer	*Military Technical Academy, Bucharest, Romania*
Occupation or position held	**Assistant Professor**

Dates (from – to)	*1991 – 2019*
Name and address of employer	*Military Technical Academy, Bucharest, Romania*
Occupation or position held	**Professor**
Type of business or sector	*Communications Department*
Main activities and responsibilities.	

EDUCATION AND TRAINING

Dates (from – to)	*Sept. 1960 - Aug. 1965*
Name and type of organization providing education and training	***Bucharest Politechnic Institute, Romania***
Title of qualification awarded	*The state diploma in Telecommunications Engineering*
Dates (from – to)	*Oct. 1970 - Apr. 1974*
Name and type of organization providing education and training	***Bucharest Politechnic Institute, Romania***

Title of qualification awarded	**Doctor's degree**: *engineer – in fundamental domain* **"ENGINEERING SCIENCES"**, **domain "** *TELECOMMUINCATIONS ENGINEERING", thema "Contributions in computer aided electrical filter design"*
Dates (from – to)	1992- 2011
Principal subjects/occupational skills covered	**Doctoral Director** *in fundamental domain* **"ENGINEERING SCIENCES"**, *domain "TELE-COMMUINCATIONS ENGINEERING"*

PERSONAL SKILLS AND COMPETENCES	

Mother tongue	Romanian

LANGUAGES

	French
Ability of reading	good
Ability of writing	good
Ability of speaking	good

	English
Ability of reading	good
Ability of writing	good
Ability of speaking	good

SOCIAL SKILLS AND COMPETENCES	➢ Loyal ➢ Honest ➢ With Abnegation ➢ Problem-solving attitude ➢ Responsible ➢ Tenaciously ➢ End-oriented work capacity ➢ Organized person
Hobby	➢ Sports: tennis ➢ Classical music

ORGANISATIONAL SKILLS AND COMPETENCES	**17 years experience in Research and Management inTelecommunications Institute;** *Trainings, laboratories, projects of circuits and sub-systems for:* <table><tr><td>- Analog circuits and communications system design</td></tr><tr><td>- Digital communications system design</td></tr><tr><td>- Computer aided circuits and system analysis and design</td></tr><tr><td>*Project Management in FDMA and TDMA Comm. Systems*</td></tr></table>
	Teaching experience: over 50 years: - 1967 - 1982 Assistant in Comm. Dept. of Bucharest Polytechnic Institute, Romania - 1982 - 2001 Assistant Professor in Military Technical Academy, Bucharest, Romania - 2001 – Professor, PhD in Military Technical Academy, Bucharest, Romania
	38 years experience in research activities in Communications Dept. of Military Tchnical Academy, Bucharest Romania. More than 10 years experience in project management from national fineness (RELANSIN, CEEX, PN II) as project manager or member of project team , with responsibilities in elaboration, evaluation and report of the results for governmental structures, training trainers.

Program/Project	Function	Period: from... to...
Orizont2000/ subsistems of STAR: Managem Optimization (100 mil.)	Coordinator (subtema)	1998-1999
Grant ANSTI tip S/Sistem de comunicatie cu purtatoare haotica (25 mil)	Coordonator tema Luca Mihai Îndrumător şt. Şerbănescu Alex.	1999-2000
Grant ANSTI tip S Controlul sistemelor dinamice haotice: Aplicaţii în studiul circuitelor electronice neliniare (19 mil.)	Coordonator tema Baston Ciprian Îndrumător şt. Şerbănescu Alex.	2001-2002
Grant ANSTI/ Comunicatii de banda larga folosind sisteme dinamice haotice (65 mil.)	Director tema	2000-2002
Program MATNANTEH "Circuite de recepţie obţinute prin prelucrarea siliciului pentru unde milimetrice "	Coordonator subtem	2001-2002
Contract MApN "Elaborarea liniilor directoare pentru proiectarea şi implementarea arhitecturilor ADL"	Coordonator subtema	2004
Program MATNANTEH "Filtre reconfigurabile pe siliciu in unde milimetrice"	Coordonator subtema	2000-2005
Program Sectorial MApN "Studii avansate pentru dezvoltarea sistem lor de comunicatii militare"	Coordonator subtema	2005-2006
Program Sectorial MApN "Studii avansate pentru dezvoltarea sistemelor de comunicatii militare- **APLICATII**"	Coordonator subtema	2006
Program CEEX"Influenta defectelor intrinseci si induse in cristalul de Langasit asupra performantelor structurilor piezoelectrice"	Coordonator subtema	2006-2008
Program CEEX „Securitatea sistemelor si actiunilor militare si civil-militare în gestionarea crizelor şi conflictelor armate"	Coordonator subtema	2006-2008
Proiecte de cercetare complexe „Comunicatii securizate compatibile SCIP pentru retele EUROCOM"	Coordonator subtema	2006-2008
Proiect cooperare internationala ECO-NET 2007-2009 cu tema: „Advanced works on transient Signal Characterization" **Participanti:** ATM-Romania, INP Grenoble-Franta, Univ. din Muntenegru	Coordonator din partea ATM	2007-2009

A. BOOKS, COURSES

Nr crt	Titlul	Autori + A.Șerbănescu	Nr. de pag.	Editura	Anul apar.
1	Filtres electriques (traducere în limba franceză)	S. Ștefănescu	783	MASSON	1972
2	Electrical Network Theory (traducere din limba engleza)	N.B labanian	900	Ed.Tehnică	1974
3	Probleme de analiza si sinteza circuitelor	A. Mateescu	532	Ed.Tehnică	1976
4	Circuite cu capacitati comutate	A.Mateescu	215	Ed. Militara	1987
5	Sisteme moderne de comunicatii	A.Mihalcea	325	Ed. Militara	1992
6	Semnale , circuite si sisteme - probleme	A.Mateescu	450	Ed.Tehnică	1998
7	Electronique, phisique et signal pour telecomunication	Claude Gimenes A. Mateescu	28	Ed. Tehnica București	1997
8	Semnale , circuite si sisteme - culegere de probleme	A. Mateescu N. Dumitriu	454	Ed. Militara București	1998
9	Prelucrarea numerica a semnalelor	A. Mateescu N. Dumitriu	200	Ed. Tehnica București	1998
10	Le traitement du signal sous MATLAB, Ed. ATM, București, 1998, (reeditat Ed. Hermes, Paris, 2000)	Quinquis A. Radoi, E.	235	Ed. ATM, Ed.Hermes	1998 2000
11	Comunicații de bandă largă folosind sisteme dinamice haotice	A. Șerbănescu	233	Ed. ATM București	2000
12	"Aplicații ale sistemelor dinamice haotice în comunicații", (ISBN 973-640-032-8);	Șerbănescu A (Editor)	14	Ed. ATM, București	2004
13	l'Optimisation Multicriterielle dans l'Approche Systemique en utilisant des Algorithmes Genetiques et les Strategies Evolutionistes",(ISBN(13)978-973-640-118-3).	A. Șerbănescu,	250	Ed. ATM, București,	2007
14	"Systemes et signaux face au chaos - Applications aux communications", (ISBN 978-973-640-111-0).	A. Șerbănescu, I. Rancu	300	Ed. ATM, București	2008
15	" Prelucrarea digitala a semnalelor. Aplicații și implementări hardware în structuri reconfigurabile și cu procesoare digitale de semnale". (ISBN (973-640-132-9)	Șerbănescu A., Șerban, G., Iana G., Oroian T.	400	Ed. Univ. Pitești,	2009
16	„Semnale si Sisteme Analogice" (ISBN 978-973-640-200-5)	Șerbănescu A., Oroian T.	300	Ed. ATM, București	2010
17	„Prelucrarea semnalelor in Sisteme Analogice"	Șerbănescu A., Oroian T.	300	Ed. ATM, București	2011
18	„Analiza neliniară a seriilor de timp", (ISBN 878-973-640-206-7)	A. Șerbănescu, O. Stanasila, F.M. Birleanu	356	Ed. ATM, București	2011

B. Papers publshed between 2000-2018

...

[71] "Results in simmulation of spread spectrum systems based on chaos", Șerbănescu, Simp. Electronics and Telecommunications Etc2000, Timișoara, 23,24 noiembrie 2000

[72] "Aplicatii ale tehnologiei bazata pe dinamica neliniara si haos", A. Șerbănescu, Simpozionul ITA, 27 oct. 2000

[73] "Chaotic modulation method based on evolutionary strategies", A. Șerbănescu, Simpozionul Communications 2000, 7-9 dec. 2000, București

[74] "A time frequency way for improving the quality of the synthesized speech signal in classical lpc compression method",L. Cernaianu, A. Șerbănescu, A. Quinquis, in Mahematics and Computers in modern science, Nikos Mastorankis Editor, 2000

[75] "Didactic Software for Signal and Image Processing", A. Quinquis, L. Cernaianu, A. Serbaneascu, in DSP2000 Workshop and First Signal Processing Education Workshop, oct. 15-18, 2000, Waldman Ranch Resort, Hunt Texas

[76] "Chaotical Sequences for Multiple Access in Spread Spectrum Communications", A. Șerbănescu, V. Greu, B. Cristea, International Conference for Telecommunications Bucharest Romania 4-7 iun. 2001

[77] "Selected Pseudo noise Sequences for Spread Spectrum Communications", V. Greu, A. Șerbănescu, M. Luca, International Conference for Telecommunications, Bucharest, Romania 4-7 iun. 2001

[78] "Signal Processing in Communications network applications based on genetic algorithms and evolution computation", A. Șerbănescu, A. Negulescu, International Conference for Telecommunications, Bucharest Romania 4-7 iun. 2001

[79] "Noi tehnologii pentru comunicatii", A. Șerbănescu, Simpozionul AFCEA "Tehnologii necesare tarilor candidate", 17 mai 2000, București

[80] "Abordarea sistemica in pregatirea inginerilor", Simpozionul international "Microelectronics, Technologies and Microsystems" Pitesti noi. 2000

[81] "Design and simulation of a chaotic-based cryptosystem", Simpozionul international "Microelectronics, Technologies and Microsystems" Pitesti, mai, 2001

[82] "Self learning educational software for signal and image processing", in Proc. of OPTIM 2002, Brasov, May, 16-17, 2002, Romania

[83] "Applications of chaos theory in cryptography" in Proc. of Intern. Scientific symposium of ACTTM, may, 23-24, 2002, Bucharest, Romania

[84] "Random sequence generator based on nonlinear function", in Proc. of Intern. Symp. ETc. 2002, 19-20 sept 2002, Timișoara, Romania

[85] "Echipamente electronice si inteligenta artificiala", la INFOSOC 2002, Pitesti, 13-14 iunie 2002, Romania

[86] "Controlul sistemelor haotice utilizand Dither-ul" lucrare prezentata la INFOSOC 2002, Pitesti, 13-14 iunie 2002, Romania

[87] "Performances evaluation of some chaos based cryptosystems" lucrare la Communications 2002, 7-9, dec.

2002,
Bucureşti, Romania

[88] "Educational software for signal processing", in Proc. of Communications 2002, 7-9, dec. 2002, Bucureşti, Romania

[89] "Applications of dynamic Chaotic Systems in Communications", Şerbănescu A. Tutanescu I., SofronE., Scheianu D, Irimia C., ECIT 2002, july,, 17-19, 2002, Iaşi, Romania, Republicata in Memoriile Secţiilor Ştiintifice A seria IV, Tomul XXV, 2002, Ed, Academiei Romane Bucureşti, 2005;

[90]"Chaotic system control with dither", A. Serbanescu in Proc. METRA, 29 mai, 2003 (4 pag.);

[91] "Application of the nonlinear dynamical system in communications security", in Proc. CAIM, Oradea, 29-31 mai 2003

[92] "I hear and I forget, I see and I remember, I do and I understand" Proc. of IEEE Intrenational. Conference, Sarajevo, 01-03 July, 2003 (6 pag.)

[93] "A microwave circuits optimization approach using a genetic algorithm" Lucrare acceptata pt. Simpozionul ATM, noiembrie 2003 (6 pag.)

[94] " Noi soluţii pentru realizarea accesului multiplu", Simpozionul ATM, noiembrie 2003 (6 pag.)

[95] "The optimisation with evolutionary strategies of chaotic control systems with Dither", ACTTM, Bucureşti, mai, 2004 96 "An Analysis of Chaotic Signals using Higher Order Statistics", ACCTTM, mai, 2004

[97] "Controlul haosului- Aplicaţii in medicina", Simp. Inteligenta artificială- Aplicaţii in medicina, iulie, Piteşti, 2004

[98] "Hardware Implementation of a Sigma-Delta Modulator", OPTIM, Barasov, 2004

[99] "A New Commpresion Method using a Chaotic Symboluic Approach", Simp. Communications, Bucureşti, 2004

[100] "Techno-economic Politics in Communications modelled with Chaotic Systems", Communications, Bucureşti, 2004

[101] "Applications of Chaos Based Systems in Communications", Communications, Bucureşti, 2004

[102] "Performance Evaluation of a Multiple Access DCSK System under a noisy Multiuser Environment", Simp. ETc 2004, Timişoara, oct., 2004

[103] "On Layout Optimization of the Microwave Diplexor filter using genetic Algorithms", Simp. CAS, Sinaia, oct., 2004

[104] "MEMS Optimization Using Genetic Algorithms", Symp. CAS, Sinaia, oct., 2004

[105] "Microwave Passive Circuit Optimization Using Genetic Algorithms", Takacs, A., Şerbănescu A., Leu G., Aubert H., Pons P., Parra T., Plana R., Romanian Journal of information science and Technology, Vol. 4 No. 3-4, 2004, pg. 309-316;

[106] "Physical implementations of the chaos based communications systems", Şerbănescu A., Conference ATM, Bucharest, Romania, 3-4 nov., 2005;

[107] "Control methods on unstable periodic orbits of a chaotic dynamical system", Şerbănescu A., ACCTTM, Bucharest, Romania, 26-27 mai, 2005;

[108] „Chaos Based Criptography", Şerbănescu A., Sesiune de informare pentru cercetare-dezvoltare în securitate şi apărare GIMS, Agenţia Spaţială Română, Agenţia de Cercetare pentru Tehnică şi Tehnologii Militare, 29 martie 2005, Bucureşti;

[109] "Use of chaos in Communications" Ion Tutanescu, Emil Sofron, Al. Şerbănescu, ECAI, Pitesti, Romania, 2005;

[110] "Performances of voice transmission (Voip) over cabled (lan) and wireless (wi-fi) networks" Alina Cristina BANCIU, Sorin Mircea PAŞA, Alexandru Şerbanescu, SpeD 2005, 13-14 mai, Cluj-Napoca, Bucharest, Romania, 2005;

[111] "Multipath Combining in Chaotic Direct-Sequence Spread Spectrum Communications through Dual Estimation", S. Azou, M. Luca, G. Burel, A. Şerbănescu, Symp. OCEAN'05, june 20-23, Brest, France, 2005;

[112] "A complete Reciever Solution for a Chaotic Direct Sequence Spread spectrum Communication System", S. Azou, M. Luca, G. Burel, A. Şerbănescu, Proc. of IEEE, Intern. Symp. on Circuit and Systems- IEEE-ISCAS, may, 2005, Kobe, Japan;

[113] "Effects of Digital Processing in Chaos-Based Cryptography ",C.I.Rincu,A. Şerbănescu, C. Danalachi, G. Budariu The 31-th internationally attended conference *Modern Technologies in the XXI Century* of Military Technical Academy, Bucharest, 03-05 November 2005;

[114] "Digital to Analog Converter Based on Sigma Delta Modulation with Reprogrammable Structures", V. Iana, E.Sofron A. Şerbănescu, Proc. ECAI 2005, Univ. Piteşti, Romania, 2005, Romania.

[115] "On Exact Kalman Filtering of Polynomial Systems", Luca B., Azou S., Burel G., Şerbănescu A., *IEEE Transactions on Circuits and Systems - Part I*, (2006-06) (2006) 53 6 1929-1340

[116] "Blind symbol estimation in the case of chaotic direct sequence spread-spectrum system", M. Luca, S. Azou, E. Hodina, A. Şerbănescu, G. Burel, 13 dec. 2005, Paper published in *Communications 2006*, Bucharest, Romania, 2006

[117] "Multiple Access with LPTV Filters", B. Cristea, D.Roviras, B. Escrig, W. Chauvet, A. Şerbănescu, dec. 2005, paper published in *Communications 2006*, Bucharest, Romania, june, 2006

[118] "Pseudo-Blind demodulations of Chaotic DS-SS Signals Through Exact Kalman Filtering", dec. 2005, paper published in *Communications 2006*, Bucharest, Romania, june, 2006

[119] "Chaos-Based Cryptography. Past and Trends"Cristian-Iulian RÎNCU, Alexandru ŞERBĂNESCU, Adelaida MATEESCU", dec. 2005, Paper published in *Communications 2006*, Bucharest, Romania, june, 2006

[120] "Genetic Optimization of Wavelet Packet Compression for Speech Signal", L. Cernaianu, E. Oancea, A Şerbănescu, paper published in Proc. of Conference on SpeD 2007, Iasi, May 9-12, Romania;

[121] "Evolvable Hardware: From Theory to Practical Implementation", L.M. Ionescu,V.G. Iana, A. Şerbănescu, G. Serban, paper published in Proc. of International Conf. ECAI-2007, June 29-30, Pitesti, Romania.

[122] „Traffic Modeling of an ATM-type communication network using dynamic systems" Paper presented in Muntenegru-Budva Workshop, 29, may, 2007

[123] "Applications of nonlinear time-series analysis", A. Şerbănescu, M. Mazilu, L. Cernaianu, C. Ivan , Paper published in Proc. of International Conf. Communications-2008, June 5-7, Bucureşti, Romania.

[124] "Doppler based aerial target tracking – A systemic approach", A. Şerbănescu, C. Ioana, F. Totir, J. Stopin, Paper published in Proc. of International Conf. Communications-2008, June 5-7, Bucureşti, Romania.

[125] "Control of chaos" Paper published in Proc. of International Conf. OPTIM-2008, June 27, Brasov, Romania.

[126] "Applications of nonlinear time-series analysis", A. Şerbănescu, L. Cernaianu, C. Ivan , Paper published in Proc. of International Conf. on Communications-2008, June 5-7, Bucureşti, Romania.

[127] "Doppler based aerial target tracking – A systemic approach", A. Şerbănescu, C. Ioana, F. Totir, J. Stopin,

Paper published in Proc. of International Conf. on Communications-2008, June 5-7, București, Romania.

[128] "FPGA implementation of cryptographic techniques based on dynamical systems"A. Mateescu, A. Șerbănescu, I. Rancu,paper published in Proc. of International Conf. on Communications-2008, June 5-7, București, Romania.

[129] "Control Methods on Unstable Periodic orbits of a Chaotic Dynamical System" Paper published in Proc. of International Conf. OPTIM-2008, June 27, Brasov, Romania.

[130] „Systemic Approach in Aerial Target Tracking: Hardware and Software Implementation", Paper published in Proc. of International Conf. Communications-2008, June 5-7, București, Romania.

[131] "On UWB-IR Chip Period Blind Estimation through Minimization of a Multimodal Cost Function", Stanciu, M., Azou, S., Șerbănescu A., Paper published in Proc. of International Symposium of Signal Processing -2009.

[132] "New Approaches in Nonlinear Dynamics Analysis of Complex Systems and processes" Șerbănescu, A., paper published in Proc. of International Symposium ECAI, Pitesti, iun. 2009.

[133] *"Time-frequency-phase tracking approach: Application to underwater signals in a passive context",* Cornel Ioana, Jerome Mars, Alexandru Serbanescu, Srdjan Stankovic,, Paper presented to ICASSP 2010, Dallas, 2010.

[134] "Chapter 3 - *New approaches in nonlinear dynamics analysis of complex systems and processes,* pp. 67-94, in Nicu BIZON(editor). *Complex Behaviour of the Distributed Generation System. Intelligent Management of the Renewable Energy Resources for assuring the DG System Power Quality and a Sustainable Development,* ISBN - 978 - 606 - 560 – 128 - 4, Publishing House of University of Pitesti, Pitesti, Romania, 2010, A. Serbanescu, F.-M. Bîrleanu.

[135] „*Estimation of thermo-hydrodynamic parameters in energy production systems using nonstationary signal processing* in Proceedings of the "Fourty-Fourth Asilomar Conference on Signals, Systems and Computers", (November 7-10, 2010, Monterey, CA, USA), pp. 1353-1356.", F.-M. Bîrleanu, C. Ioana, A. Serbanescu, G. Serban, E. Sofron.

[136] „*A time distributed phase space histogram for detecting tranzient signals*", Proc. IEEE International Conf. On Acoustic,Speech and Signal Proceesing ICASSP 2011, May 22-27, Prague, Czech Republic, pp. 3844-3847, IEEE Catalog Number:CFP11ICA-USB, ISBN:978-1-4577-0537-3, F. M. Birleanu, C. Ioana, A. Serbanescu, J. Chanusot,

[137] „*On the Recurrence Plot analysis method behaviour under scaling transform*" in Proc. Of the 2011 IEEE Statistical signal Processing workshop SSP 2011, June 28-30, Nice, France, pp. 793-796, F. M. Birleanu, C. Ioana, C. Gervaise, J. Chanusot, A. Serbanescu, G. Serban

[138] „*Caracterisation des signaux transitoires par l'analise des recurrence des phase*", GRETSI 2011 sept. 5-8, Bordeaux, France, F. M. Birleanu, C. Ioana, C. Gervaise, J. Chanusot, A. Serbanescu, G. Serban

[139] " On Time hopping Signals Chip Time Blind Estimation through Minimization of a Multimodal Cost Function". IEEE, Transaction on Signal Processing, M. Stanciu, S. Azou, A. Serbanescu, no. 2, 201

|136] *"Time-frequency-phase tracking approach: Application to underwater signals in a passive context",* Cornel Ioana,Jerome Mars, Alexandru Serbanescu, Srdjan Stankovic,, Paper presented to ICASSP 2010, Dallas, March , 2010.

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[140] „*On the Recurrence Plot analysis method behavior under scaling transform*", F. M. Birleanu, C. Ioana, C. Gervaise, J. Chanusot, A. Serbanescu, G. Serban in Proc. of the 2011 IEEE Statistical Signal Processing workshop SSP 2011, pp. 793-796, June 28-30, Nice, France.

[141] „*Caracterisation des signaux transitoires par l'analise des recurrence des phase*", GRETSI 2011 sept. 5-8, Bordeaux, France, F. M. Birleanu, C. Ioana, C. Gervaise, J. Chanusot, A. Serbanescu, G. Serban,

[142] "*On Time hopping Signals Chip Time Blind Estimation through Minimization of a Multimodal Cost Function*",IEEE Transaction on Signal Processing, M. Stanciu, S. Azou, A. Serbanescu, no. 2, 2011;

[143] „*On transient signal characterization using phase space trajectory dynamics*", F. M. Birleanu, C. Ioana, C . Gervaise, A. Serbanescu, G. Serban, Paper published in Proc. of ICASSP, mar. 2012, Kyoto, Japan.

[144] "*A vector approach to transient signal processing*", F. M. Birleanu, C. Ioana, C. Gervaise, A. Serbanescu, G. Serban, Paper for Special Sessions in ISSPA 2012.

[145] „*Optimization of partial discharge detection in high voltage cables based on advanced signal processing techniques*", I. Candel, A. Digulescu, C. Ioana, A. Serbanescu, E. Sofron, paper for *11th International Conference on Information Sciences, Signal Processing and their Applications,* Montreal (Quebec), Canada, Special Sessions in ISSPA 2012

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[147] "*A Statistical Analysis of multipath Interference for Impulse Radio*" M. I. Stanciu, E. Radoi, A. Serbanescu, Paper presented at International Conference on Communications, 2012, Bucharest, Romania

[148] "Applications of Transient Signals Detection Using Recurrence Analysis", Elif Tuba Celik, Alexandru Serbanescu, in"Chaos and Complex Systems-Proceedings of the 4th International Interdisciplinary Chaos Symposium, Stavrinides, S.G.; Banerjee, S.; Caglar, S.H.; Ozer, M. (Eds.), Springer, pag. 201, ISBN 978-3-642-33913-4, 2013.

[149] "*Modulation Detection in Wireless Sensor Networks using Recurrence Plot Analysis*", A. Digulescu, E.T.Celik, A. Serbanescu, O. Fratu, S. Halunga, published in: international Symposium on Wireless Personal Multimedia Communications (WPMC), 24-27 June, 2013

[150] "*Overview of our recent results in signal analysis using recurrence plots*", Alexandru Serbanescu, Florin, Barleanu, Angela Digulescu, ECAI 2013, 27- 29 June 2013, Pitesti, Romania

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[151] "*Recent advances in non-stationary signal processing based on Recurrence Plot Analysis,*"Cornel Ioana, Angela Digulescu, Alexandru Serbanescu, Ion Candel and Florin-Marian Birleanu on 5-th International Symposium on Recurrence Plots Chicago, august 14-16 aug 2013. Lucrare extinsa publicata intr-un capitol dintr-o carte Ed. Springer 2014 cu titlul "TRANSLATIONAL RECURRENCES- From mathematical Theory to Real World Applications" ISSN 2194-1009. *Translational Recurrences. From Mathematical Theory to Real-World Applications, Springer Proceedings in Mathematics & Statistics,* 2014.

[152] "*Fetal heart rate variability study with recurrence plot anlysis*", Digulescu Angela, Costin Hariton, Serbanescu Alexandru, Strungaru Rodica, published in E-Health and Bioengineering Conference, EHB, Iasi, Romania, 10-11 9 2013, 21-23 Nov.2013

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Membru in Colectivul de redactie al „Revue Roumaine des Science Techniques - Serie Electrotechnique et Energetique" (din 2000)

- Vice-președintele la conferința „*Communications*" (organizata de **Prof. Mateescu A.**) - de la infiintarea acesteia in urma cu 25 ani pana in prezent. http://www.comms.ro/   2010

- Vice-președintele conferinței Communications **2012, 2013, 2014,...2020** http://www.comms.ro/

- membru în International Steering Committte la Conferința Internațională de Electronică, Calculatoare și Inteligență Artificială **ECAI 2016, 2017, 2018**	
1. Premiul „**Gheorghe Cartianu**" al *Academiei Romane* pentru lucrarea „**Prelucrarea numerica a semnalelor**" elaborata de un Colectiv condus de prof. Mateescu Adelaida (in care am participat alaturi de Ciochina S si Nicolae Dumitru), din 17.12.1999	60
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4. . **LIFE SENIOR Member of IEEE** – incepand cu 2018	

Thèses en cotutelle en France

1. Thèse en cotutelle de Monsieur *Bogdan Cristea* encadrée par: M. Roviras Daniel – Directeur de thèse de l'Institute National Polytechnique, Toulouse, France, Ecole doctorale: Informatique et Télécommunications et M. Serbănescu Alexandru – Directeur de thèse de l'Académie Technique Militaire, Bucarest, Roumanie Sujet de la thèse : «*Techniques d'accès multiple avec changements d'horloge périodiques*» Date de soutenance : 25 octobre 2002

2. Thèse en cotutelle de Monsieur *Alexandru Takacs* encadre par: M. Herve Aubert – Directeur de thèse de l'Institute National Polytechnique, Toulouse, France, *Laboratoire Electronique (LEN7) de l'Ecole Nationale d'Electronique, d'Electrotechnique d'Informatique et d'Hydrotechnique de Toulouse (ENSEEIHT)* et : M. Serbănescu Alexandru – Directeur de thèse de l'Académie Technique Militaire, Bucarest, Roumanie. Sujet de la thèse : «Modélisation multi-échelles des circuits hyperfréquences» Date de soutenance : 15 septembre 2004

3. Thèse en cotutelle de Monsieur Mihai Bogdan Luca encadre par: M.Stephane Azou – Directeur de thèse de l'Université de Bretagne Occidentale, Brest, France et : M. Serbănescu Alexandru – Directeur de thèse de l'Académie Technique Militaire, Bucarest, Roumanie Sujet de la thèse : «Apports du chaos et des estimateurs d'´etats pour la transmission sécurisée de l'information» Date de soutenance : 31 octobre 2006

3. Thèse en cotutelle de Monsieur Mihai Stanciu encadre par:M.Stephane Azou – co-directeur de thèse de l'Université de Bretagne Occidentale, Brest, France et : M. Serbănescu Alexandru – co-directeur de thèse de l'Académie Technique Militaire, Bucarest, Roumanie Sujet de la thèse : "**Sur l'estimation aveugle de signaux UWB impulsionnels dans un context de radio intelligente**" Date de soutenance 31 oct. 2011

4. Thèse en cotutelle de Madamme Angela Digulescu, encadre par: M. Serbănescu Alexandru – Directeur de thèse de l'Académie Technique Militaire, Bucarest, Roumanie et : M. Ioana Cornel – Directeur de thèse de l' Institut Polytechnique du Grenoble Pôle de Recherche et d'Enseignement Supérieur, 1025, avenue centrale – Domaine Universitaire, 38400 SAINT MARTIN D'HERES FranceSujet de la thèse : „*Caractérisation des phénomènes physiques à l'aide de l'analyse de la loi de phase instantanée*". Date de soutenance 31 oct. 2017

Membre en jury de thèses en France

1. **RAPPORT** sur le mémoire de thèse de Monsieur Ryszard Wozniak intitulé: "Simulateur pour modélisation et l'optimisation des systèmes dynamiques contrôlés" pour l'obtention du doctorat de l'Université Evry, dans la spécialisation Automatique, Robotique. Date de soutenance: 06 Octobre 1997

2. RAPPORT sur le mémoire de thèse de Monsieur Razvan Ionescu intitule:"Détection et rehaussement des informations par réalignement et interpolation en imagerie médicale. Application pour des séquences d'images cérébrales vasculaires en IRM" pour l'obtention du doctorat de l'Université de Technologie-Compiègne, France.   Date de soutenance: 26 août 2002

3. RAPPORT sur le mémoire de thèse de Monsieur Valeriu VRABIE intitule:"Statistique d'ordre supérieur :Applications en géophysique et électrotechnique" pour l'obtention du doctorat de l'Institut National Polytechnique de Grenoble, France et de l'Université «POLITEHNICA« de Bucarest, Roumanie. Date de soutenance: 17 septembre 2003

4. RAPPORT sur le mémoire de thèse de Monsieur Florentin BUJOR intitule:"Extraction – fusion d'informations en imagerie radar multi-temporelle" pour l'obtention du doctorat de l'Institut National Polytechnique de Grenoble, France et de l'Université «POLITEHNICA« de Bucarest, Roumanie.   Date de soutenance: 9 Juillet 2004

5. RAPPORT sur le mémoire de thèse de Monsieur Charbel SABER intitulé :"Ultra large bande radio par impulsions. Contributions à la définition du récepteur TDSC. Relation à la filière technologique" pour l'obtention du doctorat de l'Université Paris Sud 11, France.   Date de soutenance: 29 septembre 2008

6. RAPPORT sur le mémoire de thèse de Monsieur Jean MOTSCH intitulé :«Archivage sécurisé d'images» pour obtenir le grade du doctorat de l'Institut National des Sciences Appliquées de Rennes, France. Date de soutenance: 27 novembre 2008

7. RAPPORT sur le mémoire de thèse de Monsieur Bertrand GOTTIN intitulé: Analyse multi-capteurs de signaux transitoires issus de systèmes électriques pour obtenir le grade du doctorat de l'Institut Polytechnique de Grenoble. Date de soutenance: Aout 2010

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9. RAPPORT sur le mémoire de thèse de Monsieur Jorge Arturo PARDIÑAS MIR intitulé: *"Contribution à l'étude de la détection des signaux UWB. Etude et implémentation d'un récepteur ad hoc multicapteurs. Applications indoor de localisation."* pour obtenir le grade du doctorat de l' Ecole doctorale: Informatique, Télécommunications et Electronique (EDITE de Paris) Date de soutenance: Nov.. 2012

10. RAPPORT sur le mémoire de thèse de Monsieur Ion CANDEL intitulé: Mesure de débit par scintillation de l'amélioration basée sur des outils de traitement du signal nonstationaire pour obtenir le grade du doctorat de l'Institut Polytechnique de Grenoble Date de soutenance: Sept. 2014

11. RAPPORT sur le mémoire de thèse de Monsieur Olivier LeBot intitulé: "Détection, localisation, caractérisation de transitoires acoustiques sous-marins"pour obtenir le grade du doctorat de l'Institut Polytechnique de Grenoble. laboratoires: Grenoble, Image, Parole, Signal, Automatique (Gipsa-lab) et Sciences et Technologies de l'Information et de la Communication – ENSTA Bretagne (STIC) dans l'école doctorale : Terre Univers Environnement (TUE)   Date de soutenance: Oct. 2014

Participation dans Commissions HDR en France

2014 Membre du Jury de soutenance du diplôme d'habilitation a diriger des recherches de Monsieur Stéphane Azou.

2016 Membre du Jury de soutenance du diplôme d'habilitation a dirigé des recherches de Monsieur Cornel Ioana.

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Alexandru Serbanescu