

CURRICULUM VITAE

Conf. dr. ALINA BARBULESCU
Universitatea Ovidius din Constanța,
Facultatea de de Matematică și Informatică
Bd. Mamaia 124, 900527, Constanța, Romania
Tel. No.+40 - 722 - 542353
E-mail: alinaemmabarbulescu@gmail.com

și

Higher Colleges of Technology, Sharjah
University City Road, Sharjah, United Arab Emirates
Tel. +971 - 566776281

1. STUDII, SPECIALIZĂRI ȘI TITLURI

- 1979 – 1983 – Liceul de matematica-Fizica Al. I. Cuza Focsani, Sectia Matematica – sef de promotie
- 1983 - 1987 - Universitatea din Craiova, Facultatea de Științe ale Naturii, Sectia Matematica. Titlul tezei de licenta: *Approximanti Pade*. Titlul obtinut – matematician.
- 1987 - 1988 - Universitatea din Bucuresti, Facultatea de Matematica, Specializarea Analiza si Teoria Operatorilor, Certificat specializare (anul V), Titlul tezei de disertatie: *Spatii Stone*. *Media celor 5 ani de studii – 9,96. Media de licenta si disertatie – 10*
- Sept. 1990 - Definitivat in invatamant. *Media – 9.83*.
- 1991 - 1996 - Universitatea P. Andrei Iasi/Universitatea Bucuresti, Facultatea de Drept, Specializarea Drept. Titlul tezei de licenta: *Misiunile diplomatice*. *Sef promotie*. Titlul obtinut – jurist.
Media de licenta - 10
- 26.10.1997 - Universitatea Al. I. Cuza Iași, Doctorat in *Matematici*. Titlul tezei de doctorat: *p - modul și p – capacitate*.
- 24.01.2003 – Academia de Studii Economice București, Doctorat in *Cibernetică și Statistică economică*. Titlul tezei de doctorat: *Analiza seriilor de timp, a proceselor dinamice*.
- 10.10.2014 – Universitatea Tehnică de Construcții București, *Doctorat in Inginerie Civilă*, obținut cu *Magna cum Laude*. Titlul tezei: *Modelarea precipitațiilor spatiale distribuite*
- 7.07.2014 - Universitatea Tehnică de Construcții București *Habilitare in Inginerie Civilă*. Titlul tezei de habilitare: *Studies and contributions on the time series analysis in engineering sciences*

2. FUNCȚII DIDACTICE/PROFESIONALE ȘI LOCURI DE MUNCĂ

- 9.08.2015 – prezent – conferențiar universitar - Higher Colleges of Technology, Sharjah, Emiratele Arabe Unite
- 23.04.2003 – prezent – conferențiar universitar, Universitatea Ovidius din Constanța (în concediu fara plata in perioada 1 sept. 2015 – 1 aug. 2018)
- 23.03.2012 – 30.04.2013 – Director Departament Matematică și Informatică
- 15.03.2011 – 15.06.2011 – Invited professor, Abu Dhabi University, Emiratele Arabe Unite
- 25.05.2010 – 9.08.2015 – Director program master *Modelare Matematică în Finanțe și Analiză Economică*
- 14.02.2000 – 22.04.2003 – lector, Universitatea Ovidius din Constanța
- 01.10.1993 – 13.02.2000 – lector, Universitatea Valahia din Târgoviște
- 05.10.1992 – 30.09.1993 – asistent, Universitatea Valahia din Târgoviște
- 01.09.1991 – 04.10.1992 – titularizat prin concurs la liceul Unirea Focșani
- 01.09.1990 – 31.08.1991 – titularizat prin concurs la Șc. generală nr.5, Focșani
- 23.02.1990 – 31.08.1990 – profesor detașat la Șc. generală nr.10, Focșani
- 1.09.1988 – 22.02.1990 – profesor stagiar la Liceul de matematică - fizică “ Samuil Vulcan”, Beiuș.

3. ACTIVITATEA PROFESIONALĂ

3.1. Activitatea didactică desfășurată s-a concretizat în:

- Predare de cursuri la nivel de licență, masterat și doctorat. Iată o parte dintre ele:
- Analiză matematică, Matematici economice, Cercetări operaționale, Matematici superioare, Algebră liniară, geometrie analitică și teoria probabilităților, Probabilități și statistică, Funcții complexe, Modele ale proceselor economice, Previziune economică pe termen scurt, Piața financiară și gestionarea portofoliilor, Matematici discrete, Combinatorică și teoria grafurilor
- Teoria comunicării și relații publice, Drept comunitar.
 - Conducere proiecte de diplomă,
 - Conducere de proiecte disertație ale studenților de la masteratul de Modelare Matematică în Finanțe și Analiză Economică
 - Participare în comisii de examene de diplomă, disertație
 - Indrumare lucrări pentru gradul didactic I și participare în comisii pentru obținerea gradelor didactice II și I
 - Elaborarea de programe analitice pentru disciplinele predate și elaborarea întregii curricule pentru masteratul Modelare Matematică în Finanțe și Analiză Economică

3.2 Activitatea tehnică s-a concretizat în:

Proiecte de cercetare

- *Director*
 - Grant PNII IDEI ID 262/2007 - 2010 – *Modelarea matematică a precipitațiilor din Dobrogea* - finanțat de UEFISCDI - 378637 lei
 - Grant CNCISIS 902/2007, 2008 – *Studii privind materialele metalice folosite în construcțiile de nave* -

Modelarea pierderilor de masă în diferite medii - 81570 lei

- *Membru*
 - Contract nr. 2939/10.12.2001, Sub-temă a grant 33/1998 - Beneficiar Universitatea Tehnică Gh. Asachi Iași, 2001 - *Studiul și modelarea proceselor climatice care participă la dimensionarea unui sistem de irigații în zonele secetoase* – 500 lei
 - Grant CNCISIS 1075/2005, 2006, 2007– *Cercetări privind optimizarea elementelor tehnice ale irigației prin aspersie – Studii asupra circulației și stocării în stratul activ de sol* - 20000 lei
 - Grant CNCISIS 1071/2005 – *Algebră computațională și aplicații în algebră și informatică* – 20000 lei
 - Grant al Academiei Române 06/17.08.2007, 2008 (director Camelia Ciobanu) – *Comportamentul navei în mișcare pe unde progresive regulate* - 8800 lei – membru
 - Proiect nr. 17081- *Environmental Impacts and Modelling of Dust Storms Pathway in UAE using Field and Remote sensing Techniques* - finanțat de The Research Office of Zayed University, United Arab Emirates 100000 AED - membru

Principalele rezultate ale granturilor al cărui director am fost sunt:

- Pentru primul grant:
 - Două cărți/capitole de cărți în edituri internaționale (C1.1, C1.2, C1.3)
 - Opt articole ISI and ISI Proceedings (D1.6, D1.7, D1.9, D1.10, D1.15, D1.16, D2.3, D2.4)
 - Un articol BDI (D3.22)
- Pentru al doilea grant:
 - Brevet no RO 123086-B1 (30.09.2010) Instalatie și metoda de măsurare și determinare a efectelor produse de cavitate în câmp ultrasonor în mediu lichid staționar sau circulant.
 - O carte și un capitol de carte (C2.16 și C1.6 din Lista de lucrări)
 - Două articole ISI and un ISI Proceedings (D1.1., D1.2, D2.5 din Lista de lucrări)
 - 17 articole BDI (D3.23-D3.26, D3.29- D3.31, D3.33, D3.36-D3.44)

3.3. Activitatea științifică

Domeniile de interes sunt:

- *Analiza Matematica* – h- masuri Hausdorff si aplicatii
 - *Statistica Aplicata - Analiza seriilor de timp*, cu aplicatii in,
 - Demografie, economie, și finanțe
 - Hidro-meteorologice și studiul poluării
 - *Modelare Matematica* –
 - Studii privind materialele metalice folosite în construcțiile nevale. Modelarea pierderilor de masă în diferite medii
 - Modelarea proceselor de extracție în extractoare industriale
 - Modelarea proceselor de amestec a namolurilor din apa
- Detalii asupra acestor cercetari se gasesc in Propunerea de dezvoltare a carierei

Stagii în străinătate castigate prin competitie

- Universitatea Jena, Germania - septembrie 2005
- Unesco International Center of Theoretical Physics, Trieste, Italia (martie-aprilie 2004, noiembrie 2004, septembrie-octombrie 2007)
- UE - Grant Marie Curie, Graz, Austria - iulie 2007

Membru in Comitete editoriale si editor

- Membru in Comitete Editoriale la revistele
 - 1. International Journal of Applied Mathematics and Statistics:
 - <http://www.ceser.in/ceserp/index.php/ijamas/pages/view/eb-ijamas>
 - 2. International Journal of Mathematics and Computation:
 - <http://www.ceser.in/ceserp/index.php/ijmc/pages/view/eb-ijmc>
 - 3. Safety of Tehnogenic Environment, Riga Technical University
 - 4. Population Dynamics: Analysis, modeling and forecast, University of Nova Gorica, Slovenia
 - <http://popdynamf.ung.si/EB.htm>
 - 5. Analele Universitatii Ovidius Constanta, Seria Constructii:
 - <http://revista-constructii.univ-ovidius.ro/index.php/en/>
 - 6. International Journal for Statisticians (ISSN: 2077-480X)
 - <http://ijstat.wordpress.com/editorial-board/>
- Editor invitat pentru 14 volume ale unor conferinte internationale
- Editor invitat la *Journal of Environmental Management*, vol.204/2017 (FI 4,010)
- Editor invitat la *Journal of Chemistry* (ISSN 2090-9071) – FI 1.300 - numar special: *New trends in monitoring and removing the pollutants from air, water and soil* (planificat sa apara in august 2018)

Premierea activitatii cercetarii

- 2007 – articol cod 60 – Lista Noiembrie 2007
A. Bărbulescu, C. Koncsag, A new model for estimating mass transfer coefficients for the extraction of ethanethiol with alkaline solutions in packed column, *Applied Mathematical Modelling*, 31, Issue 11, 2007, pp. 2515 - 2523
(http://old.uefiscdi.ro/UserFiles/File/PREMIERE_ARTICOLE/ARTICOLE%202007/REZULTATE_PREMIERE_NOIEMBRIE2_2007.pdf),
- PN – III – P1 – 1.1 – PRECISI – 2016 – 12355 – pentru articolul
M. Gilca, **A. Bărbulescu**, Taste of medicinal plants: a potential tool in predicting ethnopharmacological activities?, *Journal of Ethnopharmacology*, vol. 174, pp. 464 – 473, 2015, [doi:10.1016/j.jep.2015.08.040](https://doi.org/10.1016/j.jep.2015.08.040) (Q1)
- PN – III – P1 – 1.1 – PRECISI – 2016 – 13218 – pentru articolul (Q2)
A. Bărbulescu, J. Deguenon, About the variations of precipitation and temperature evolution in the Romanian Black Sea Littoral, *Romanian Reports in Physics*, vol. 67(2), 2015, pp. 625 – 637
- PN – III – P1 – 1.1 – PRECISI – 2016 – 12680 pentru articolul

- **A. Bărbulescu**, A new method for estimation the regional precipitation, *Water Resources Management*, vol. **30**, Issue 1, pp 33-42, 2016 (Q1)
- PN – III – P1 – 1.1 – PRECISI – 2016 – 12772 pentru articolul (Q2)
C. Maftai, **A. Bărbulescu**, A.A. Cârsteanu, Long-range dependence in the time series of Taița River, *Hydrological Sciences Journal*, vol. **61**(9), 2016, pp. 1740 - 1747
- PN – III – P1 – 1.1 – PRECISI – 2017 – 17867 pentru articolul (Q2)
A. Bărbulescu, A. E. Sterpu, L. Barbes, C.- I. Koncsag, New correlation for the mixing of waste water sludge, *Romanian Journal of Physics*, vol. 62(1-2), 2017, art. 801, http://www.nipne.ro/rjp/2017_62_1-2/rjp062_1-2_801.pdf
- Award for *Excellence in commitment to research & scholarly activities*, Higher Colleges of Technology, Sharjah, 31.05.2016

Participarea la organizarea unor manifestări științifice naționale și internaționale (selecție)

- International Conference: The 11th Dynamical Systems, Mathematical, Physical Sciences and It's Engineering Applications, Philippines, 9-12.05.2018
<http://haydarakca.wixsite.com/akca/organising-committee>
- 15th International Conference on Environmental Science and Technology, CEST2017, Session: Environmental data analysis and modelling, Rhodes, Greece, 21.08 - 25.09.2017
- The 9th Dynamical Systems and Applications Conference, ICDSA 2017, 20 -23.07.2017, Antalya, Turkey
- EcoSummit 2016 – Session: Modelling the impact of human activity, behavior and decisions on the environment. Green marketing strategy and green consumer, Montpellier, France, 29.08 – 2.09.2016
- 14th International Conference on Environmental Science and Technology, CEST2015, Session: Environmental data analysis and modelling, Rhodes, Greece, 3- 5.09.2015,
- 6th International workshop on Soft Computing Applications, SOFA 2014, Timisoara, 24- 26.07.2014
- International Conference Dynamical Systems and Applications, iunie 2009, Constanța, România
- A 12 – a Conferință Națională a Societății de Probabilități și Statistică din România, 10.04.2009, Constanța, România
- 7-th Balkan Conference on Operational Research, 25 -28.05. 2005, Constanța, România
- International Conference on Analysis and Optimization of Differential Systems, 10 - 14. 09. 2002, Constanța, România
- Euroconference 2000, 1 –18.08.2000, Constanța, România
- Conferința Societății de Științe Matematice din România, iunie 2000, Constanța, România
- Al XXII-lea Congres al Academiei Româno - Americane de Științe și Arte, iunie 1997, Târgoviște, România
- A XII – a Conferință Națională de Mecanică, mai 1995, Târgoviște, România.

Moderator în cadrul unor conferințe internaționale (selecție)

- CEST2017 Rhodes, Greece, 31.08-2.09.2017
- EcoSummit2016, Montpellier, 29.08 – 2.09.2016
- 6th International workshop on Soft Computing Applications, SOFA 2014, Timisoara, 24- 26.07.2014
- The 5th International Conference Dynamical systems and applications, Constanta, România, 15 - 18.06. 2009
- 7th World Congress of Probability and Statistics, Singapore, 14 - 19.07.2008
- Conference 2007: Dynamical systems and applications, Izmir, Turcia, 1- 7.07.2007
- 22nd European conference on operational research, Prague, 8-11.07.2007
- Conference 2004: Dynamical systems and applications, Antalya, Turky, 5 - 10.07.2004
- International Conference on Applied Mathematics, Baia Mare, 10.2004

Membru în comitete științifice ale unor manifestări științifice internaționale (selecție)

- KES-IDT 2018, Gold Coast, Australia, 20 -22.06.2018 http://idt-18.kesinternational.org/cmsIPC_display.php
- WATER2018, Constanta, Romania, 21-23.06.2018, <http://revista-constructii.univ-ovidius.ro/conferinte/index.php/water-2018>
- ICDD 2018, Sibiu, Romania, 17-19.05.2018
- International Conference: The 11 Dynamical Systems, Mathematical, Physical Sciences and It's Engineering Applications, Philippines, 9-12.05.2018
- CEST2017, Rhodes, Greece, 31.08-2.09.2017 <https://cest.gnest.org/group/2261/scientific-committee>
- The 9th Dynamical Systems and Applications Conference, ICDSA 2017, Antalya, Turkey, 20 -23.07.2017.
- MDIS2017, Sibiu, Romania, 23-25.06.2017
- ICDD 2017, Sibiu, Romania, 25-27.05.2017
- The 4th Abu Dhabi University Annual International Conference: Mathematical Science and Its Applications, Abu Dhabi, UAE, 20 - 22.04.2017
- WATER 2016, 23-25.06.2016, Constanța, Romania
- KES - IDT-16, Smart Digital Futures 2016, Puerto de la Cruz, Tenerife, Spain, 15 – 17.06.2016
<http://idt-16.kesinternational.org/cmsIPCdisplay.php>
- The 4th Abu Dhabi University Annual International Conference: Mathematical Science & its Applications, 23-25.12.2015
- KES - IDT-15, Smart Digital Futures 2015, Sorento, 15 – 17.06.2015, <http://idt-15.kesinternational.org/cmsIPCdisplay.php>
- CSCS20: The 20th International Conference on Control Systems and Computer Science, 27-29.05.2015
- MDIS 2015, Sibiu, Romania, 28.10 - 1.11.2015, http://conferences.ulbsibiu.ro/mdis/2015/scientific_committee.php
- ICDD 2015, Sibiu, Romania, 21-23.05.2015, http://conferences.ulbsibiu.ro/icdd/2015/sc_committees.php
- The 3rd Abu Dhabi University Annual International Conference: Mathematical Science & its Applications - 29.11- 02.12.2014
- ICDD 2014, Sibiu, Romania, 15-17.05.2014, http://conferences.ulbsibiu.ro/icdd/2013/sc_committees.php
- Third International Students Conference on Informatics, ICDD, Sibiu, Romania, 16 – 18.05.2013.
- Third International Conference MDIS 2013, Sibiu, România, 10 – 12.10.2013.
- The 2nd Abu Dhabi University Annual International Conference: Mathematical Science and Its Applications, UAE, 29.11 –1.12.2013.
- The 6th International Conference Dynamical Systems and Applications, Antalya – Turkyia, 14-16.07.2010
- 1st International Conference Water Across Time in Engineering Research – WATER 2010, Constanta, Romania, 16-19.06.2010

Conferinte invitate

- SMSA Berlin, 20-24.02.2017
- University of Reading, Department of Meteorology, 13.11.2012
- Instituto Politecnico Nacional, Mexico City, 5.08.2010

Referent al unor articole pentru jurnalele ISI and BDI (selecție)

- Atmospheric Pollution Research
- Chaos, Solitons and Fractals
- Chemical Engineering Communications

- Geophysical Research Letters
- Hydrological Sciences Journal
- IEEE Transactions in Fuzzy Systems
- Journal of Hydrology
- International Journal Mathematics and Computation
- International Journal Mathematical Manuscripts
- International Journal of Mathematics and Mathematical Sciences
- Journal of Applied Polymers Sciences
- Monthly Weather Reviews
- Neurocomputing Letters
- Safety of Tehnogenic Environment, Riga Technical University
- Science Journal of Business Management
- Scientific Research and Essays
- Tellus A
- Water Resources Management
- Water SA
- An. Univ Ovidius din Constanta, Matematica
- An. Sci. Ovidius Univ. of Constanta, Constructii
- Applied Mathematics and Information Science
- Information Technology Research Journal

Membru în societăți științifice

- IAHS (International Association of Hydrological Sciences) – din 2008
- EGU (European Geosciences Union) - 2008
- IAENG (International Association of Engineers) – din 2007
- SPSR (Societatea de Probabilități și Statistică din România) – din 2007
- SSMR (Societatea de Științe Matematice din România) – din 2006

Participarea la manifestări științifice internaționale și naționale – 96, dintre care in ultimii 10 ani (selectie)

- 1st ASET Multiconference, Innovations in Engineering Education, Abu Dhabi, 4.04.2018
- 1st ASET Multiconference Advances in Engineering Technology & Sciences Multi-Conference - Sustainable Environment and Urban Infrastructure International Conference, Dubai, 7-8.02.2018
- ICCF2017 - Second International Conference on Computational Finance, Lisbon, Portugal, 4-8.09.2017
- CEST 2017, Rhodes, Greece, 31.08 – 2.09.2017
- 5th Abu Dhabi University Annual International Conference: Mathematics and Its Applications, Abu Dhabi, UAE, 20 – 22.04.2017
- UAE Math Day, Sharjah University, UAE, 11.03.2017
- Stochastic Models Statistics and Their Applications, Berlin, Germany, 20 - 24.02.2017
- 28th IBIMA 2016, Sevilla, Spain, 9-10.11.2016
- EcoSummit 2016, Montpellier, France, 29.08 - 02.09.2016
- Theodor Angheluta Conference 2016 – The 15th Conference on Applied Mathematics and Computer Science, Cluj - Napoca, Romania, 5 - 7.07.2016
- International Conference on Sciences and Applications, Abu Dhabi University, 23-26.12.2015
- MDIS 2015, Sibiu, Romania, 29.10 - 2.11.2015
- 14th International Conference on Environmental Science and Technology, CEST2015, Rhodes, Greece, 3 - 5.09.2015
- SOFA 2014, Timisoara, Romania, 24 - 26.07.2014
- IC-ANMBES Brasov, Romania, 13 - 15.06.2014

- EcoImpuls 2013, Timisoara, Romania, 7 - 8.11.2013
- MDIS 2013, Sibiu, Romania, 12 - 14.10.2013
- ICAM 8, Baia Mare, Romania, 25-28.09.2013
- Theodor Angheluta Seminar, Cluj – Napoca, Romania, 29 - 31.08.2013
- ICNAAM – A XII-a ediție a Conferinței Internaționale „Matematici Aplicate și Analiză Neliniară”, Târgoviște, Romania, 22 - 24.06.2013
- Workshop on Algebraic and Analytic Number Theory and Their Applications, Constanta, Romania, 23 - 24.05.2013
- EGU Viena, Austria, 15 - 18.04.2013
- Modern stochastic with Applications II, Kyev, Ukraine, 7 - 11.09.2010
- 5th Advanced Summer School in Economics and Econometrics, Rethymno, Creete, 1 - 8.07.2010
- 9th Balkan Conference on Operational Research, Constanța, Romania, 2-6.09.2009
- 13th WSEAS International Conference on computers, Rhodos Island, Greece, 23-25.07.2009
- 5th International Conference Dynamical Systems and Applications, Constanța, Romania, 15-18.06.2009
- EGU Viena, 13-18.04.2009
- The 12th Conference of SPSR, Constanța, Romania, 10-11.04.2009
- 7th Workshop on Mathematical Modelling of Environmental and Life Sciences Problems, Constanța, Romania, 22-25.10.2008
- The role of hydrology in water resources management, Capri, Italy, 13-16.10.2008
- Fall Colloquium on the Physics of Weather and Climate: Regional Weather Predictability and Modelling, Trieste, Italy, 29.09 - 12.10.2008
- 7-th World Congress in Probability and Statistics, Singapore, 14-19.07.2008
- World Congress on Engineering 2008, London, UK, 2-4.07.
- EGU Viena, Austria, 13-18.04.2008
- The third international Conference on mathematical Sciences, ICM 2008, Al Ain, UAE, 3-6.03.2008

3.4. ALTE INFORMAȚII

- *Limbi străine cunoscute:*
franceză – scris, citit, vorbit - foarte bine;
engleză – scris, citit, vorbit - foarte bine.
- *Software* folosit in scopuri stiintifice: SPSS, MINITAB, R.
- *Training*
 - Getting Started with Blackboard
 - Blackboard Learn Workshop: Discussion Board
 - Blackboard Learn Workshop: Creating tests
 - Building courses in Blackboard Learn
 - Creating assessments – Advanced Question Types
 - Blackboard Learn Workshop: Assignments (SafeAssign)
 - Epigeum 101: Course Name: Develop Your Teaching 2015/2016
 - Academic Advising Seminar
 - iPads in the Classrooms
 - Emaze (online Presentation Software)
 - The Portal email attachments
 - Strength-Based Leadership in Higher Education
 - OneDrive for Bussiness
 - Peer - to - peer tutoring

LISTA LUCRARI

A. Teza habilitare

Studies and contributions on the time series analysis in engineering sciences.

B. Brevete

B1. RO 123086-B1/30.09.2010, A. Bărbulescu, V. Mârza, C. S. Dumitriu, Instalație și metodă de măsurare și determinare a efectelor produse de cavitație în câmp ultrasonor, în mediu lichid staționar sau circulant.

C. Cărți și capitole de cărți

C1. In edituri internationale

C1.1. **A. Bărbulescu**, C. Maftai, E. Băutu, *Modeling the hydro-meteorological time series. Applications to Dobrudja region*, LAP Lambert Academic Publishing, Germany, 2010 (ISBN 978-3-8433-6578-9) - 136p

C1.2. **A. Bărbulescu**, J. Deguenon, D. Teodorescu, *Study on water resources in the Black Sea region*, Nova Publishers, USA, 2011 (ISBN 978 – 1 – 61122 – 542 – 4) - 87p.

C1.3. **A. Bărbulescu**, D. Teodorescu, J. Deguenon, *Study on Water Resources in the Romanian Black Sea Region*, in *The Black Sea: Dynamics, Ecology and Conservation*, (eds. A.M. Ryann, N.J. Perkins), Nova Publishers, USA, 2011, pp 175 -205 (ISBN 978 – 1 – 61122 – 855 – 7)

C1.4. V. E. Bălas, I. M. Motoc, **A. Bărbulescu**, *Combined Haar-Hilbert and Log-Gabor Based Iris Encoders*, in *New Concepts and Applications in Soft Computing* (V. Balas et al., eds), *Studies in Computational Intelligence Series*, vol. 417, 2013, pp. 1-26 (ISBN 978-3-642-28958-3) Springer - Verlag.

C1.5. C.I. Koncsag, **A. Bărbulescu**, Liquid-liquid extraction with and without a chemical reaction, in *Mass Transfer in Multiphase Systems and its Applications* (ed. M. El-Amin), InTech, Austria, 2011, pp. 207 - 232 (ISBN 978 –953 – 307 – 215 – 9)

<http://www.intechopen.com/articles/show/title/liquid-liquid-extraction-with-and-without-a-chemical-reaction>

C1.6. **A. Bărbulescu**, *Studies on time series. Applications in Environmental Sciences*, Springer Nature, 2016 (187p)

C1.7. **A. Bărbulescu**, S.V. Balas, I. E. Koles, C.A. Mnerie, On the Long Range Dependence Property of the Electrical Signals Collected in Cavitation Field, in *Soft Computing Applications*, vol. 357 of the series *Advances in Intelligent Systems and Computing*, (eds. V.E. Balas, L. C. Jain, B. Kovacevic), Springer, 2016, pp 781-789 (ISBN: 978-3-319-18415-9 (Print), 978-3-319-18416-6 (Online)).

C2. In edituri nationale - locale sau universitare

C2.1. **A. Bărbulescu**, *Matematici economice*, Macarie, Targoviste, 1996 (ISBN 973-9220-67-3) - 228p.

C2.2. **A. Bărbulescu**, *Elemente de Analiză matematică pentru economiști*, Macarie, Targoviste, 1997, (ISBN 973 – 9304 – 90 – 7) - 323p.

C2.3. **A. Bărbulescu**, *Caiet de probleme rezolvate pentru economiști. Analiză matematică*, Macarie, Targoviste, 1998 (ISBN 973 – 9304 – 91 – 5) – 183p

C2.4. **A. Bărbulescu**, G. S. Badea, *Caiet cu aplicatii pentru economie*, Macarie, Targoviste, 1997 (ISBN 973 – 9304 – 93 – 1) - 65p

C2.5. **A. Bărbulescu**, G. S. Badea, *Modelarea matematică a comportamentului rațional al agentului economic*, Macarie, Targoviste, 1997 (ISBN 973 – 9304 – 92 – 3) – 90p.

C2.6. **A. Bărbulescu**, *Caiet de probleme rezolvate pentru economiști. Algebră, programare liniară, grafuri*, Stolnicul Cantacuzino, Targoviste, 1998 (ISBN 973 – 85679 – 0 – 1) – 236p.

C2.7. **A. Bărbulescu**, *Elemente de teoria probabilităților și statistică matematică pentru economiști*, Stolnicul Cantacuzino, Targoviste, 1998 (ISBN 973 – 8153 – 08 – 7) – 225p.

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F. Contracte

F1. Grant CNCSIS 902/2007, 2008 – *Studii privind materialele metalice folosite in construcțiile de nave - Modelarea pierderilor de masa in derite medii* - 81570 lei – director

F2. Grant PNII IDEI ID 262/2007 - 2010 – *Modelarea matematică a precipitațiilor din Dobrogea* – 378637 lei – director

F3. Contract nr. 2939/10.12.2001, Sub-temă a grant 33/1998 (Beneficiar Universitatea Tehnică Gh. Asachi Iași, 2001) (director Carmen Elena Maftai) *Studiul și modelarea proceselor climatice care participă la dimensionarea unui sistem de irigații în zonele secetoase* – 500 lei – membru

F4. Grant CNCSIS 1075/2005, 2006, 2007 (director Carmen Elena Maftai) – *Cercetări privind optimizarea elementelor tehnice ale irigației prin aspersie – Studii asupra circulației și stocării în stratul active de sol* - 20000 lei – membru

F5. Grant CNCSIS 1071/2005 (director Viviana Ene) – *Algebră computațională și aplicații în algebră și informatică* – 20000 lei – membru

F6. Grant al Academiei Române 06/17.08.2007, 2008 (director Camelia Ciobanu) – *Comportamentul navei în mișcare pe unde progresive regulate* - 8800 lei - membru

F7. Grant No. R 17081, The Research Office of Zayed University, United Arab Emirates - *Environmental Impacts and Modelling of Dust Storms Pathway in UAE using Field and Remote sensing Techniques* (director Yousef Nazzal, Zayed University Abu Dhabi – 500000AED (approx. 120000 euro) membru

G. Alte lucrări și contribuții științifice

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G2.3. **A. Bărbulescu**, G. S. Badea, *L' optimisation de l'activité économique par rapport au prix des facteurs de production utilisés et l'assurance du profit maximum*, *Analele Universității "Valahia"*, Târgoviște, fasc. II 1995/1996, pp. 110 – 117 (ISSN 1453 – 8202)

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G4. Editor (selectie)

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Alina Barbulescu