

Curriculum vitae

Name: Marius Rădulescu

Mailing address: Institute of Mathematical Statistics and Applied Mathematics "Gheorghe Mihoc-Caius Iacob", Casa Academiei, Calea 13 Septembrie, nr. 13, Bucharest 5, RO-050711, Romania.

E-mail address: mradulescu.csmro@yahoo.com

Date and Place of Birth: August 15, 1953, Bucharest, Romania.

Marital status: Married, two daughters (1985), (1991).

Education:

1972 - Graduated from College;

1977 - M.A. (Mathematics) Faculty of Mathematics, University of Bucharest;

1985 - Ph.D., Centre of Mathematical Statistics, Bucharest, Thesis: Müntz's phenomenon.

Brief Chronology of Employment:

1977 - 1985 Research worker, Central Institute for Management and Informatics, Bucharest.

1985 - 1987 Research worker, Institute of Computer Technique and Informatics, Bucharest.

1987 - 2002 Senior research worker, Centre of Mathematical Statistics of the Romanian Academy.

2002- present Senior research worker, Institute of Mathematical Statistics and Applied Mathematics "Gheorghe Mihoc-Caius Iacob" of the Romanian Academy.

Language proficiency:

- English and French: reading, writing, speaking: very well
- Italian (understanding): fair

Project coordinator of:

National contracts :

- 7 contracts between the the Ministry of Education and Research and Institute of Mathematical Statistics and Applied Mathematics, 1997-2016.
- 10 research grant contracts financed by the Romanian Academy and the Ministry of Education and Research, between 1996-2016.

Results in national contracts where dr. Radulescu was a project coordinator.

The following two projects are the result of the cooperation of the Institute of Mathematical Statistics and Applied Mathematics and National Institute for Research and Development in Informatics in the frame of the national research program RELANSIN.

1. Project (contract 283/1999): Advanced decision methods for project, products selection under risk and limited resources.

Purpose of the project: Decision support tools for project portfolio selection under risk and limited resources.

The project was awarded in 2002 a diploma of merit for the theoretical and practical results obtained.

2. Project (contract 282/1999) Decision support system based on advanced methods for investment risk analysis and assessment.

Purpose of the project: Decision support system for portfolio selection. Financial risk management system.

3. Project IDEAS PN-II-ID-PCE-2011-3-0908 Portfolio selection models and applications

Purpose of the project: To find new applications of portfolio theory in domains connected with

sustainable development.

The project had obtained the highest score in the 2011 competition UEFISCDI-IDEAS at the section Economy and Social Sciences.

Purpose of the project: Applications of financial portfolio theory were made in agriculture, aquaculture, production planning under environmental constraints, energy etc

Research interests: Operations research, risk management, multiple criteria decision making, design of decision support systems, mathematics of finance, mathematical modeling in agriculture, fishery and aquaculture, optimization theory, nonlinear functional analysis and its applications to boundary value problems for differential equations, real analysis, numerical analysis, approximation theory.

A member of:

- SPSR: Romanian Society for Mathematical Statistics and Probability: www.csm.ro
- ROMSIM: Romanian Society for Simulation
ws3.atv.tuwien.ac.at/eurosim/romsim/romsim.html, romsim.ici.ro
- ARIES: The Romanian Association for Electronics and Software Industry
www.aries.ro
- RGMIA: Research Group in Mathematical Inequalities and Applications
<http://rgmia.vu.edu.au>
- ORAFM: Euro Working Group on OR in Agriculture and Forest Management orafm.udl.es/

Distinctions: 1991 awarded a prize of the Romanian Academy for contributions to global inversion theorems and applications to boundary value problems.

Editorial activities: a member of the editorial board of the journals

- Applied Sciences: ISSN: 1454-5101, <http://www.mathem.pub.ro/apps/appsedit.htm>
- Advanced Modeling and Optimization: ISSN: 1841-4311,
<http://www.ici.ro/camo/journal/jamo.htm>
- Arhimede: ISSN: 1582-0076, <http://www.asociatiaarhimede.ro/>
- Advances in Pure Mathematics: ISSN Print: 2160-0368, ISSN Online: 2160-0384,
<http://www.scirp.org/journal/apm>
- Scientific World Journal: editor in the section Operations Research
<http://www.hindawi.com/journals/tswj/>, ISSN: 1537-744X.
- International Journal of Mathematical and Computational Science,
<http://journals.theired.org/journals/ijmcs-journal.html>, Journal Code: IJMCS, Electronic ISSN : 2475-2282
- Studies in Informatics and Control, <https://sic.ici.ro/>, ISSN 1220-1766 (Print)
ISSN 1841-429X (Online)
- Journal of Fisheries Science, of Bilingual Publishing CO.
<https://ojs.bilpublishing.com/index.php/jfs/index>, ISSN: 2661-3387
- International Journal of Theoretical and Applied Mathematics,
<http://www.sciencepublishinggroup.com/journal/index?journalid=347>,
ISSN Print: 2575-5072, ISSN Online: 2575-5080.
- Mathematics and Statistics, https://www.hrpub.org/journals/jour_info.php?id=34,
ISSN: 2332-2071 (Print), ISSN: 2332-2144 (Online)

List of publications

A. Research papers published in conference proceedings

- [1] Rădulescu M., Raut Gh., Computational complexity of computer networks reliability, in: Proc. Nat. Conf. Cyb. 3-5 oct. 1985, Ed.Academiei 1988, 102-105, (in Romanian).
- [2] Rădulescu M., Rădulescu S., Global inversion theorems, global univalence theorems and the Jacobian conjecture, Proceedings of the workshop "Recent results on the Global Asymptotic Stability Jacobian Conjecture", Universita degli studi di Trento, Trento 1993, 15p, (Editor Marco Sabatini) UTM 429-March 1994.
- [3] Rădulescu M., Rădulescu S., Applications of global inversion theorems to differential equations, numerical analysis and nonlinear circuits, Proceedings of the workshop "Recent results on the Global Asymptotic Stability Jacobian Conjecture", Universita degli studi di Trento, Trento 1993, 26p, (Editor Marco Sabatini) UTM 429-March 1994.
- [4] Rădulescu M., Rădulescu S., Rădulescu C.Z., Optimal decision in the selection of portfolio problem, The third international symposium of economic informatics, Bucharest, (1997) 622-627.
- [5] Rădulescu M., Rădulescu S., Rădulescu C.Z., Single period portfolio selection models for the small investor, Proceedings of the fourth international symposium on economic informatics, Information Technology, Bucharest, (1999), 546-552.
- [6] Rădulescu M., Rădulescu S., Rădulescu C.Z., Mathematical modeling for optimal investment decisions, Proceedings of the fifth international symposium on economic informatics, Information Society, Bucharest, (2001), 581-586.
- [7] Rădulescu M., Rădulescu S., Rădulescu C.Z., Computer simulation for portfolio selection models with transaction costs and initial holdings, Proceedings of the EUROSIM 2001 Congress, "Shaping Future with Simulation", Delft, (2001),1-6.
- [8] Rădulescu M., Rădulescu C.Z., Decision analysis for the project selection problem under risk, Proc. 9th IFAC / IFORS / IMACS / IFIP/ Symposium on large scale systems: theory and applications, 2001 Bucharest, Romania, (2001), 243-248.
- [9] Rădulescu M., Rădulescu S., Application des théorèmes d'inversion globale aux problèmes à la limite pour les équations différentielles, 6-eme Colloque Franco-Roumain de Mathématiques Appliquées, Perpignan, sept.2002.
- [10] Rădulescu M., Rădulescu S., Quelques critères d'unicité pour des problèmes Dirichlet nonlinéaire du deuxième ordre, 6-eme Colloque Franco-Roumain de Mathématiques Appliquées, Perpignan, sept.2002.
- [11] Rădulescu M., Rădulescu S., Rădulescu C.Z., Optimal decisions for portfolio selection in the presence of initial holdings and transaction costs, Proceedings of the 4th International Workshop on Computer Science and Information Technologies CSIT'2002, Patras, Greece, (2002), 1-6.
- [12] Rădulescu M., Rădulescu S., Rădulescu C.Z., Portfolio optimization models with transaction costs and initial holdings, 2nd Conference in Actuarial Science & Finance, Samos, (2002), 1-10. www.stat.ucl.ac.be/Samos2002/proceedRădulescu.pdf
- [13] Rădulescu M., Rădulescu S., Rădulescu C.Z., Multiperiod portfolio selection models with transaction costs and initial holdings, Proceedings of the 4th MATHMOD (the Fourth International IMACS Symposium on Mathematical Modelling) Vienna 2003, 1090-1098.

- [14] Rădulescu M., Rădulescu C.Z., Project selection under risk and decision support, Proceedings of the sixth international symposium on economic informatics, Digital Economy, Bucharest, May 2003, 1056-1060. Rădulescu M., Rădulescu S., Rădulescu C.Z., A downside risk approach to portfolio selection in the presence of the transaction costs, Proc. The 5-th EUROSIM Congress, Marne de la Valee, France, (2004), 141-146. ISBN 3-901608-28-1.
- [15] Rădulescu M., Rădulescu S., Rădulescu C.Z., Risk management in the presence of transaction costs and initial holdings, Proc. International Conference “Stochastic Finance 2004”, Lisbon (2004), 1-6.
- [16] Rădulescu M., Rădulescu S., Rădulescu C.Z., Mean-variance portfolio selection models with finitely divisible assets, 7th International Conf. on Informatics in Economy IE 2005 – Information & Knowledge Age, (2005), 1300-1305. ISBN: 973-8360-04-8.
- [17] Rădulescu M., Rădulescu S., Rădulescu C.Z., Optimal production planning in a firm subject to environmental constraints, Proc. 5th MATHMOD Vienna, (I.Troch, F. Breitenecker, eds.), Discrete Modelling and Planning, 70, (2006) 4.1. - 4.9. ISBN 3-901608-30-3.
- [18] Rădulescu M., Rădulescu C.Z., A model for agricultural production planning which includes weather risks, market risks and environmental risks, in vol. 2, “Cercetarea de excelență – premiză favorabilă pentru dezvoltarea spațiului românesc de cercetare”, Brașov 2006, 1.4-27, pg. 1-8. 2006. Editura Printech. ISBN 973-718-552-8, ISBN 973-718-553-6.
- [19] Rădulescu M., Rădulescu C.Z., Un model de planificare a producției agricole care include riscuri legate de condiții climatice, de piața și de poluare a mediului, Revista Romana de Informatica și Automatica, vol. 16, nr. 4, (2006), 139-146.
- [20] Rădulescu M., Rădulescu C.Z., “Decision Support Tools For A Sustainable Agriculture”, Proc. EFITA 2007, (Conference and the World Congress on Computers in Agriculture) "Environmental and rural sustainability through ICT", Editor C. Parker, Glasgow Caledonian University, CDROM pg. 1-6, Glasgow, Great Britain, 2007. ISBN-10:1-905866-10-0, ISBN-13:978-1-905866-10-6, <http://www.efita.net/apps/accesbase/dbsommaire>
- [21] Rădulescu M., Rădulescu C.Z., “Crop planning under risk and environmental constraints”, Proc. 6th EUROSIM Congress on Modelling and Simulation, Editors: B. Zupancic, R. Karba, S. Blazic, pg. 334, vol. 2, CDROM pg. 1-6, Ljubljana, Slovenia, 2007. ISBN 13: 978-3-901608-32-2.
- [22] Rădulescu M., Rădulescu C.Z., A multiobjective programming model for production planning under environmental constraints □ □ Proc. IFAC/IEEE 4th Conference on management and control of production and logistics, MCPL 2007, Editors: Octavian Bologa, Ioan Dumitrache and Florin Gheorghe Filip, pg. 771-776, Sibiu, Romania, 2007. ISBN 978-973-739-481-1.
- [23] Rădulescu M., Rădulescu C.Z., Optimal decisions for crop planning under risk, Conference Excellence Research-a way to E.R.A., Brasov 2007, Editors: Nicolae Vasiliu and Lanyi Szabolcs, Editura Tehnică, (2007), pg. 28.1 – 28.6., ISSN 1843-5904.
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- [25] Rădulescu M., Zbăganu Gh., Properties of selling and buying prices, Proc. 9th WSEAS Int. Conf. on Mathematics and Computers in Business and Economics (MCBE'08), Bucharest 2008, (2008), pg.

44-49. WSEAS Press. ISSN 1790-5109, ISBN: 978-960-6766-76-3.

[26] Rădulescu C.Z., Rădulescu M., Vlad V., Motelica D.M., A Multidimensional Data Model and OLAP Analysis for Soil Physical Characteristics, Proc. 9th WSEAS Int. Conf. on Mathematics and Computers in Business and Economics (MCBE'08), Bucharest 2008, (2008), pg. 25-29. WSEAS Press. ISSN 1790-5109, ISBN: 978-960-6766-76-3.

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[30] Rădulescu M., Rădulescu C.Z., Zbăganu Gh., Crop Planning in the Presence of Production Quotas (Invited Paper), Editors: David Al-Dabass, A. Orsoni, Proc. Tenth International Conference on Computer Modeling and Simulation (uksim 2008), pp. 549-554, ISBN 0-7695-3114-8, <http://doi.ieeecomputersociety.org/10.1109/UKSIM.2008.40>

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[32] Rădulescu C.Z., Turek Rahoveanu A., Rădulescu M., A hybrid multi-criteria method for performance evaluation of romanian South Muntenia Region in context of sustainable agriculture, Proc. of the International Conf. on Applied Computer Science, Institute for Environment, Engineering, Economics and Applied Mathematics, Malta (2010) 303-308. ISSN: 1792-4863, ISBN: 978-960-474-225-7.

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[35] Rădulescu C.Z., Rădulescu M., Turek Rahoveanu A., Turek Rahoveanu M., Beciu S, A multi-criteria approach for assessment of agricultural systems in context of sustainable agriculture, 2nd International Conference on Applied Informatics and Computing Theory (AICT '11), Prague, (2011), pg 167-171. ISBN: 978-1-61804-034-3.

[36] Rădulescu M., Rădulescu C. Z., Simulation and Optimization for Crop Planning Under Risk, Proceedings of the 8th EUROSIM Congress on Modelling and Simulation, EUROSIM 2013, Cardiff, UK, 2013, pg 409-414. IEEE 2013. ISBN 978-0-7695-5073-2. DOI 10.1109/EUROSIM.2013.117.

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ISBN: 978-0-9930236-0-6.

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[39] Rădulescu C.Z., Rădulescu M., Boncea R., A combined VIKOR-TOPSIS method with application, in Cloud Services Provider selection. In Intelligent Methods Systems and Applications in Computing, Communications and Control - 9th International Conference on Computers Communications and Control (ICCCC) 2022. Springer, (in press in a Springer volume)

B. Research papers published in journals

[1] Rădulescu M., Rădulescu S., Hamel functions, Darboux functions and arbitrary functions, Bull.Math.Soc.Sci.Math. R.S.R.,tom.20(68) no.3-4, (1976), 379-384.

[2] Rădulescu M., Rădulescu S., Irreducible polynomials, Analele Univ. Bucuresti (1978), 65-78.

[3] Rădulescu M., Rădulescu S., Approximation, existence and uniqueness of solutions to ordinary differential equations in Banach spaces, Bull. Math. Soc. Sci. Math. R.S.R., tom. 24(72), no.2, (1980), 199-204.

[4] Rădulescu M., A supra-additive and supra-multiplicative operator of $C(X)$ into itself is additive and multiplicative, Bull. Math. Soc. Sci. Math. R.S.R., tom.24 (72), no.3, (1980), 299-301.

[5] Rădulescu M., Rădulescu S., Global inversion theorems and applications to differential equations, J. Nonlinear Analysis, vol.4, no.5,(1980), 951-965.

[6] Rădulescu M., Rădulescu S., A new proof of Fleissner's theorem on products of derivatives, Real Analysis Exchange, vol.10, (1984-1985), 212-213.

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[8] Rădulescu M., Production processes optimization on graphs, in vol. Management and structure optimization in social and economic large scale systems, edited by Institute of Computer Technique and Informatics, Bucharest and Institute for Management Problems, Moscow, Bucharest 1985, pp.130-145.

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[10] Rădulescu M., Rădulescu S., An application of Hadamard-Levy's theorem to an initial value problem for the differential equation $x^{(n)}=f(t,x)$, Rev.Roumaine Math. Pures et Appl. 33, (1988), 695-700.

[11] Rădulescu M., Rădulescu S., Optimizations in distributed database systems, Economic computation and economic cybernetics studies and research no.4, (1988), 51-65.

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[15] Rădulescu M., Rădulescu S., Global univalence and global inversion theorems in Banach spaces,

J.Nonlinear Analysis, vol.13, no.5, (1989), 539-553.

- [16] Rădulescu M., Rădulescu S., An application of a global inversion theorem to a Dirichlet problem for a second order differential equation, Rev.Roumaine Pures et Appl. 37, (1992), 10, 929-933.
- [17] Rădulescu M., Rădulescu S., Generalizations of Dobrushin's inequalities and applications, J.Math.Anal.Appl. 204 (1996) 631-645.
- [18] Rădulescu M., Rădulescu S., Global inversion theorems and applications to unique solvability of boundary value theorems for differential equations, International Journal of Differential Equations with Applications, vol.1, no.2, (2000), 159-166.
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- $|f(x+y)| \geq |f(x) + f(y)|$ when the range of f is a space of functions, *Carpathian Journal of Mathematics*, vol. 30, no. 2, (2014), 253 – 256.
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C. Books

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