

Assistant Professor PhD. Math. Ec. CODRUTA SIMONA STOICA

Published books and scientific papers

Monographs and Books

1. C. STOICA, *Aspecte clasice si moderne in studiul ecuatiilor diferentiale si cu diferente - Classic and Modern Aspects in the Study of Differential and Difference Equations*, Mirton Publishing House, Timisoara, 2011, ISBN 978-973-52-1036-6
2. C. STOICA, *Uniform Asymptotic Behaviors for Skew-Evolution Semiflows on Banach Spaces*, Mirton Publishing House, Timisoara, 2010, ISBN 978-973-52-0786-1
3. M. MEGAN, S. BIRAUAS, C. STOICA, *Examene si concursuri de matematica pentru elevi si profesori - Exams and Mathematical Contests for Students and Teachers*, Scoala Vremii Publishing House, Arad, 2005, ISBN 973-86695-7-X
4. C. STOICA, *Ecuatii diferentiale si cu derivate partiale prin exercitii si probleme - Differential and Partial Differential Equations by means of Exercises and Problems*, Second Edition - revised and completed, Mirton Publishing House, Timisoara, 2004, ISBN 973-661-490-5
5. M. MEGAN, S. BIRAUAS, C. STOICA, *Matematica 2004-2007, Probleme date la examene de bacalaureat, admiteri in facultati, examene de definitivat si pentru obtinerea gradului doi in invatamant, olimpiade - Mathematics 2004-2007, Problems for Graduation Exams, University Admission Exams, Teacher Degrees Exams, Mathematical Olympics*, Editura Scoala Vremii, Arad, 2004, ISBN 973-86695-0-2
6. C. STOICA, *Ecuatii diferentiale si cu derivate partiale prin exercitii si probleme - Differential and Partial Differential Equations by means of Exercises and Problems*, Mirton Publishing House, Timisoara, 2002, ISBN 973-585-670-0; [Zbl 1129.00301]
7. G. CRISTESCU, C. BOTA, *Ecuatii diferentiale si cu derivate partiale - Differential and Partial Differential Equations*, Mirton Publishing House, Timisoara, 2001, ISBN 973-585-373-6; [Zbl 1040.34001]

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1. C. STOICA, M. MEGAN, *On uniform exponential stability for skew-evolution semiflows on Banach spaces*, *Nonlinear Analysis: Theory, Methods & Applications*, Vol. 72, Issues 3-4 (2010) 1305-1313, ISSN 0362-546X; [MR 2577532(2010k:34140)], [Zbl 1180.93053]

2. C. STOICA, M. MEGAN, *On nonuniform exponential dichotomy for evolution equations in Banach spaces*, Carpathian Journal of Mathematics, (2011) ISSN 1584-2851 (accepted for publication, to appear)
3. M. MEGAN, C. STOICA, *On uniform exponential trichotomy of evolution operators in Banach spaces*, Integral Equations and Operator Theory, Birkhäuser, Basel, Vol. 60, No. 4 (2008) 499 – 506, ISSN 0378-620X; [MR2390441(2009b:34150)], [Zbl 1151.34051]
4. C. STOICA, M. MEGAN, *Discrete asymptotic behaviors for skew-evolution semiflows on Banach spaces*, Carpathian Journal of Mathematics, Vol. 24 No.3 (2008) 348--355, ISSN 1584-2851
5. M. MEGAN, C. STOICA, *Equivalent definitions for uniform exponential trichotomy of evolution operators in Banach spaces*, Hot Topics in Operator Theory, Theta Ser. Adv. Math. 9 (2008) 151 – 158, ISBN 978-973-87899-2-0, distributed by the American Mathematical Society; [MR2436759(2009j:34116)], [Zbl pre05649034]

Scientific papers published in journals indexed in International Databasis BDI and in journals indexed B+

6. C. STOICA, M. MEGAN, *On (h,k) -trichotomy for skew-evolution semiflows in Banach spaces*, Studia Universitatis Babeş-Bolyai Mathematica, Cluj-Napoca, 56, No. 4 (2011) 147 – 156, ISSN 0252-1938
7. C. STOICA, M. MEGAN, *Nonuniform behaviors for skew-evolution semiflows in Banach spaces*, Operator Theory Live, Theta Ser. Adv. Math. (2010) 203 – 211, ISBN 978-973-87899-6-8, distributed by the American Mathematical Society; [MR2731875(2011j:34159)], [Zbl pre05874889]
8. M. MEGAN, C. STOICA, *Concepts of dichotomy for skew-evolution semiflows in Banach spaces*, Annals of the Academy of Romanian Scientists, Series on Mathematics and its Applications, Vol. 2, No. 2 (2010) 125-140, ISSN 2066-5997; [MR2753724]
9. C. STOICA, *Pointwise trichotomy for skew-evolution semiflows on Banach spaces*, Journal of Mathematical Sciences Vol. 161, No. 2, Springer New York (2009) 327—336, ISSN 1072-3374; [MR2760297], [Zbl 1193.34109]
10. M. MEGAN, C. STOICA, L. BULIGA, *Trichotomy for linear skew-product semiflows*, Applied Analysis and Differential Equations, World Scientific Publ., Hackensack, NJ (2007) 227 – 236, ISBN 978-981-270-594-5; [MR2343674], [Zbl 1184.37021]
11. M. MEGAN, C. STOICA, *Exponential dichotomy for skew-evolution semiflows on*

- Banach spaces*, Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, Cluj-Napoca, Vol. 7 (2009) 3-10, ISSN 1584-4536; [Zbl pre05657557]
12. C. STOICA, M. MEGAN, *Exponential dichotomy and trichotomy for skew-evolution semiflows on Banach spaces*, Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, Cluj-Napoca, Vol. 6 (2008) 97-104, ISSN 1584-4536; [Zbl 1165.34038]
 13. M. MEGAN, C. STOICA, *Trichotomy for discrete skew-evolution semiflows in Banach spaces*, Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, Cluj-Napoca, Vol. 5 (2007) 79 – 85, ISSN 1584-4536; [Zbl 1158.39008]
 14. C. STOICA, *Stability in a classic model for economic growth*, Annals of the Oradea University. Fascicle of Management and Technological Engineering X(XX), Nr. 1 (2011) 293-298, ISSN 1583-0713
 15. C. STOICA, *Optimality in a bisectorial model for economic growth*, Annals of the Oradea University. Fascicle of Management and Technological Engineering IX(XIX) (2010) 272-277, ISSN 1583-0713
 16. C. STOICA, *Dynamical model in discrete time for the evolution and the efficiency of a portfolio*, Annals of the Oradea University. Fascicle of Management and Technological Engineering VIII(XVIII) (2009) 2137-2140, ISSN 1583-0713
 17. C. STOICA, M. MEGAN, *On H-trichotomy in Banach spaces*, Acta Technica Corviniensis, Bulletin of Engineering, Tome II, Fascicule 1 (2009) 53 - 58, e-ISSN 2067-3809
 18. C. STOICA, M. MEGAN, *Asymptotic properties for discrete linear systems on Banach spaces*, Proceedings of the 12th International Symposium of Mathematics and its Applications – Politehnica University of Timisoara (2009) 188-193, ISSN 1224-6069; [MR2655051], [Zbl pre05787340]
 19. M. MEGAN, C. STOICA, *Exponential instability of skew-evolution semiflows in Banach spaces*, Studia Universitatis Babeş-Bolyai Mathematica, Cluj-Napoca, Vol. LIII, No. 1 (2008) 17 – 24, ISSN 0252-1938; [MR2442730(2009h:47104)]
 20. C. STOICA, *A bisectorial model for economic growth*, Annals of the Oradea University. Fascicle of Management and Technological Engineering VII(XVII) (2008) 2778 – 2781, ISSN 1583-0713
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25. C. STOICA, *On Dasgupta - Heal - Solow model for investments*, Annals of the Oradea University. Fascicle of Management and Technological Engineering Vol. V (XV) (2006) 1470 – 1474, ISSN 1583-0713
26. C. STOICA, M. MEGAN, *Uniform exponential instability of evolution operators in Banach spaces*, Annals of the West University of Timisoara, Vol. XLIV, Fascicle 2 (2006) 143 – 148, ISSN 1841-3293; [MR2368691(2008i:47083)], [Zbl 1174.93683]
27. C. STOICA, *An optimal consumption policy model for economic growth*, Annals of the Oradea University. Fascicle of Management and Technological Engineering Vol. IV (XIV) (2005) 337 – 442, ISSN 1583-0713
28. G. CRISTESCU, C. STOICA, *A minimax property for a class of perfect information games*, Scientific Bulletin of the Politehnica University of Timisoara, Series Mathematics-Physics, Tom 50 (64), Fascicle 1 (2005) 19 – 23, ISSN 1224-6069; [MR2278158(2007h:91003)], [Zbl 1113.91008]
29. C. STOICA, *Pachpatte type inequalities for phi-convex functions*, Annals of the Oradea University. Fascicle of Management and Technological Engineering Vol. III (XIII) (2004) 48 – 51, ISSN 1583-0713
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31. C. STOICA, L. SIDA, *Osculating convexity of first order for plane curves*, Scientific Bulletin of the Politehnica University of Timisoara, Series Mathematics-Physics, Tom 47 (61), Fascicle 1 (2002) 45 – 52, ISSN 1224-6069; [MR1947150(2003k:52002)], [Zbl 1052.53006]

32. G. CRISTESCU, C. STOICA, *Approximation of the curvature of a function*, Annals of the Oradea University. Fascicle of Management and Technological Engineering Vol.II (XII) (2003) 28 – 36, ISSN 1583-0713
33. L. SIDA, C. STOICA, *Osculating convexity for curves versus convexities for functions*, Annals of the Oradea University. Fascicle of Management and Technological Engineering, Vol.I, Anul I (2002) 179 – 184, ISSN 1583-0713

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34. M. MEGAN, C. STOICA, *On null uniform exponential trichotomy of evolution operators in Hilbert spaces*, Annals of the Tiberiu Popoviciu Seminar of Functional Equations, Approximation and Convexity, Cluj-Napoca, Vol. 3 (2005) 141 – 150, ISSN 1584-4536
35. C. STOICA, *Mathematical unisectorial models for economic growth*, Annals of the Aurel Vlaicu University of Arad, Series Economics (2005) 69 – 76, ISSN 1582-3385
36. C. STOICA, *A control theory model for monetary strategies*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2004) 65 – 70, ISSN 1582-344X
37. G. CRISTESCU, C. STOICA, *An equilibrium property for perfect information games*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2004) 16 – 21, ISSN 1582-344X
38. C. STOICA, *Rectangular osculating convexity of superior order for plane curves*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2002) 146 – 151, ISSN 1582-344X
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40. C. BOTA, *Aspects of the budget of the European Union*, Annals of the Aurel Vlaicu University of Arad, Series Economics (2000) 37 - 42, ISSN 1582-3385

Scientific papers published in proceedings of international conferences

41. C. STOICA, M. MEGAN, *Asymptotic behaviors for evolution equations in infinite dimensional space*, Proceedings of the International Symposium - Research and Education in an Innovation Era, Section Mathematics, 3rd Edition, The Aurel Vlaicu University of Arad Publishing House, Arad (2010) 187 - 191, ISSN 2065-2569
42. C. STOICA, D. BORLEA, *Muldowney dichotomy in Banach spaces*, Proceedings of

- the International Symposium - Research and Education in Innovation Era, Section Mathematics and Computer Science, 3rd Edition, The Aurel Vlaicu University of Arad Publishing House, Arad (2010) 109 - 113, ISSN 2065-2569
43. C. STOICA, M. MEGAN, *Trichotomy for difference equations in Banach spaces*, Proceedings of the International Symposium - Research and Education in Innovation Era, Section Mathematics and Computer Science, 2nd Edition, The Aurel Vlaicu University of Arad Publishing House, Arad (2008) 141 - 146, ISSN 2065-2569
44. M. MEGAN, C. STOICA, *Trichotomy in Hilbert spaces*, Proceedings of the International Symposium - Research and Education in Innovation Era, Section Mathematics and Computer Science, Mirton Publishing House, Timisoara (2007) 70 – 77, ISBN 978-973-52-0108-1
45. M. MEGAN, C. STOICA, *A stochastic optimal control model for economic growth*, Proceedings of the 9th Conference of the Romanian Mathematical Society, The West University of Timisoara Publishing House, Timisoara (2005) 434 – 444, ISBN 973-7608-37-2
46. G. CRISTESCU, C. STOICA, *Estimation of the curvature of Bernstein approximation*, Bulletins for Applied & Computer Mathematics, BAM-2085/2004 (CIII), PAMM Pannonian Applied Mathematical Meetings Center at the Technical University of Budapest (2004) 107 – 114, ISSN 0133-3526
47. C. STOICA, *Directional convexity for surfaces*, Proceedings of the 30th International Scientific Conference of the Military Technical Academy, Bucharest (2003) 133 – 139, ISBN 973-640-012-3
48. C. STOICA, L. SIDA, *Osculating convexity of superior order for plane curves*, Bulletins for Applied & Computer Mathematics, BAM1990-C/2003, PAMM Pannonian Applied Mathematical Meetings Center at the Technical University of Budapest (2002) 111 – 120, ISSN 0133-3526; [Zbl 1052.53006]

Other published scientific papers

49. C. STOICA, *On polynomial stability for skew-evolution semiflows on Banach spaces* (2011) 1 – 10, hal: 00641559
50. C. STOICA, *On nonuniform exponential stability for skew-evolution semiflows on Banach spaces* (2010) 1 – 11, arxiv: 1002.1180 [math.CA]
51. C. STOICA, *Dichotomies for evolution equations in Banach spaces* (2010) 1 – 22, arxiv: 1002.1139 [math.CA]
52. C. STOICA, *On exponential stability for skew-evolution-semiflows on Banach*

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- 53.C. STOICA, *Instabilitate des cocycles d'evolution fortement mesurables dans des espaces de Banach*, Serie de Preprints en Mathematiques, Institut de Mathematiques de Bordeaux, Franța (2008) 1 – 8, arxiv: 0801.3401 [math.CA]
- 54.C. STOICA, M. MEGAN, *On asymptotic behaviors of evolution operators in Banach spaces*, Preprint Series in Mathematics, West University of Timisoara (2006) 1 – 22, ISSN 1453-7389
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2. D. GASPAR, M. MEGAN et al., *Proceedings of the 8th Conference on Mathematical Analysis and Applications*, published in the Annals of the West University of Timisoara, The West University of Timisoara Publishing House, Vol.1, 2007, ISBN 978-973-52-0108-1
3. D. GASPAR, M. MEGAN et al., *Proceedings of the 8th Conference on Mathematical Analysis and Applications*, The West University of Timisoara Publishing House, Vol.2, 2008, ISBN 978-973-52-0108-1
4. S. NĂDĂBAN, C. STOICA, *Proceedings of the International Symposium „Research and Education in an Innovation Era” - Section Mathematics and Computer Science*, Arad 16-18 November 2006, Editura Mirton, Timișoara, 254 pag., ISBN 978-973-52-0108-1
5. S. NĂDĂBAN, C. STOICA, *Proceedings of the International Symposium „Research and Education in an Innovation Era” - Section Mathematics and Computer Science*, Second Edition, Arad 20-21 November 2008, Editura Universității „Aurel Vlaicu”, Arad, 244 pag., ISSN 2065 2569
6. S. NĂDĂBAN, C. STOICA, *Concursul de Matematică „Caius Iacob”*, Editura Universității „Aurel Vlaicu” din Arad, 2010, 83 pag., ISBN 978-973-752-461-4

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4. M. MEGAN, C. STOICA, L. BULIGA, *On asymptotic behaviors for linear skew-evolution semiflows in Banach spaces*, cited in *The Proceedings of the 2009 International Conference on Future Computer and Communication*, published by IEEE Computer Society, 256 - 268, ISBN 978-0-7695-3591-3
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- 13.C. STOICA, M. MEGAN, *On uniform exponential stability for skew-evolution semiflows on Banach spaces*, cited in Nonlinear Analysis, 73, Issue 8 (2010) 2445 – 2450, ISSN 0362-546X
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