A. **Teza de doctorat**

Dependenta de date pentru ecuatiile functional diferentiale, Univ. Babes Bolyai Cluj-Napoca, 2006

B. Cărți si capitole în cărți publicate

1. **I.M. Olaru,** A. Bucur, Ecuatii cu derivate partiale : note de curs, Editura Universitatii „Lucian Blaga ” din Sibiu, 2009, ISBN 978-973-739-769-0...
2. A. Bucur, **I.M. Olaru,** Ecuatii diferentiale : note de curs, Editura Universitatii „Lucian Blaga ” din Sibiu, 2009, ISBN 978-973-739-770-0

C. Lucrari care pun in evidenta activitatea de cercetare

D. Lucrări care pun in evidenta contributia stiintific

Monografie

I.M. Olaru, *Dependenta de date pentru ecuatii functional diferentiale,* Editura Universitatii „Lucian Blaga ” din Sibiu, 2009, ISBN 978-973-739-877-2

Articole publicate in reviste de circulatie internationala, specifice domeniului, cotate I.S.I.sau indexate in baze de date internationale

1. Branga, A.N**.,** **Olaru, I.M.** Generalized Contractions and Fixed Point Results in Spaces with Altering Metrics. Mathematics 2022, 10, 4083. https://doi.org/10.3390/math10214083
2. **Olaru, I.M** *A New Contraction-Type Mapping on a Vectorial Dislocated Metric Space over Topological Modules,* Axioms, Vol. 11 No. 8/2022 **ISI**
3. Branga, A.N. , **Olaru, I.M** *Some Fixed Point Results in Spaces with Perturbed Metrics*, Carpathian Journal of Mathematics, Vol.38, No. 3/2022, pp 641-654 **ISI**
4. **Olaru IM**, Secelean NA. *A New Approach of Some Contractive Mappings on Metric Spaces*. Mathematics. 2021; 9(12):1433. https://doi.org/10.3390/math9121433 **ISI**
5. Branga, A.N.; **Olaru, I.M**. *An Application of the Fixed Point Theory to the Study of Monotonic Solutions for Systems of Differential Equations.* Mathematics 2020, 8, 1183. **ISI**
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7. **Olaru, I.M**. & Branga, A.N. *Some fixed point results in D^*-quasimetric spaces* , J. Fixed Point Theory Appl. (2018) 20: 78. https://doi.org/10.1007/s11784-018-0566-x **ISI**
8. **Olaru, I.M** *A study of a nonlinear integral equation via weakly Picard operators* , Fixed Point Theory, 16(2015), No. 1, 163-174 **ISI**
9. **Olaru, I.M** *An integral equation related to an epidemic model via weakly Picard operators technique in a gauge space*, Fixed Point Theory, 15(2014), No. 1, 179-188 **ISI**
10. **Olaru, I.M** , Secelean N.A, *Vector comparison operators in cone metric spaces*. Mathematical reports, Vol 16(2014), No. 3, pp 431-442 **ISI**
11. **Olaru, I.M** *An integral equation via weakly Picard operators*, Fixed Point Theory, Vol.11, No. 1/2010, pp.97-106 **ISI**
12. **Olaru, I.M** *Generalization of an integral equation related to some epidemic model*, Carpathian Journal of Mathematics, Vol.26, No. 26/2010, pp 92-96 **ISI**

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1. **Olaru, I.M** *Data dependence for some integral equations* , Studia Univ. Babes-Bolyai Cluj- Napoca, seria Mathematica, Vol. LV, No 2 /2010, pp159-166

2. **Olaru, I.M** *Kalecki`s model of business cycle. Data dependence.* Gen. Math. No2/2009 pp 67-72
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4. **Olaru, I.M** *Data dependence for some functional differential equation in an Banach space*, Proceedings of "The 8th Romanian German on Approximation Theory and its Applications", Gen. Math./2008
5. **Olaru, I.M** *Differentiability with respect to parameter for Kalecki's model*, ACAM, Vol. 17/2008, No 1, pp 5-9
6. **Olaru, I.M** *An integral inequalities for convex functions*, Proceedings of "Mathematical inequalities", Gen. Math./2008
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8. **Olaru, I.M** *Functional differential equations of mixed type , via weakly Picard Operators* , Studia Univ. Babes-Bolyai Cluj-Napoca, seria Mathematica, Vol. LI, No 2 /2006, pp 83-95.
9. **Olaru, I.M** *C_g asymptotic equivalence for some functional equation of type Voltera*, Gen. Math., vol 14, No 1/2006, pp 31-40
10. **Olaru, I.M** *The multipoint model of the nuclear reactor dynamics, via weakly Picard operators*, Gen. Math, Vol. 14, No 3/2006.
11. **Olaru, I.M** *On some integral inequalities with modified argument and applications*, Gen. Math. Vol 13 No 1(2005), pp 99-108
12. **Olaru, I.M** *On some integral equation with deviating argument*, Studia Univ. Babes-Bolyai Cluj- Napoca, seria Mathematica, Vol. L, No 4 (2005),
13. pp 65-73.
14. **Olaru, I.M** *On some integral equation with deviating argument*, Studia Univ. Babes-Bolyai Cluj- Napoca, seria Mathematica, Vol. L, No 4 (2005),
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16. **Olaru, I.M** *Data dependence for some integral equations via weakly Picard operators*, Studia Univ. Babes-Bolyai Cluj-Napoca, seria Mathematica, Vol. L, No 3 /2005, pp 99-107.
17. **Olaru, I.M** *About some functional equations of Volterra type,via weakly Picard operators*, Analele Univ. de Vest din Timisoara, Vol.XLIII/2005, Fasc. 2, pp 125-132
18. **Olaru, I.M** *Data dependence for some integral equation via weakly Picard operators* , Gen.Math. Vol. 12, No 3(2004), pp31-36.
19. **Olaru, I.M** *Smooth dependence on parameters for some functionall differential equations*, Gen. Math. Vol 12, No 4 (2004), pp 23-28

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1. **I.M. Olaru** *Method and device for detecting blockage of a radar system, and vehicle* EP3364210B1·2020-10-28 , https://worldwide.espacenet.com/patent/search?q=pn%3DEP3364210B1
2. **I.M. Olaru** , R. Sasu , *Method and device for detecting a possible collision, and vehicle*, EP3364211B1·2022-08-17, https://worldwide.espacenet.com/patent/search?q=pn%3DEP3364211B1
3. **I.M. Olaru** *Method, monitoring unit, and radar sensor*, EP3299839B1·2022-08-17, https://worldwide.espacenet.com/patent/search?q=pn%3DEP3299839B1

E. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

1. *10-11 decembrie 2004,* ***Conference on nonlinear analysis and applied mathematics****, Valahia University of Targoviste, Smooth dependence on parameters.*
2. 15-18 septembrie 2005, **ICTAMI, Alba-Iulia**, The asymptotic equivalence of the differential equations with modified argument, Proceedings of international Conference on Theory and Applicationsof Mathematics and Informatics, Part 2, No 11/2006, pp 211-217.
3. *8-10 decembrie 2006,* ***Conference on nonlinear analysis and applied mathematics****, Valahia University of Targoviste, Data dependence for some differential equations with infinite delay retards;*
4. *November, 9-10, 2007, Oradea,* ***International Conference on Fundamental Sciences, Applied Mathematicsand Computer Sciences,*** *About the zeros of weakly Picard operators, Proceedings of International Conference on Fundamental Sciences, Applied Mathematicsand Computer sciences, ICFS 2007, pp 45-49, ISBN 978-973-759-367-2*
5. *7-8 December 2007,* ***Conference on nonlinear analysis and applied mathematics****, Valahia University of Targoviste, Some Gronwall type inequalities with applications in data dependence for functional differential equations, Journal of Science and Art, No1(2008), pp 83-86.*
6. *7-8 December 2007,* ***Conference on nonlinear analysis and applied mathematics****,* ***Valahia University Targoviste,*** *Generalizarea unei inegalitati de la barajul OBMJ 2006, Journal of Science and Art, No1(2008), pp 81-82.*
7. *28May-1 June 2008,* ***The 8th Romanian German on Aproximation Theory and its Applications, Sibiu*** *, Data dependence for some functional differential equation in an Banach spaces*
8. *September 10-13, 2008, Baisoara,* ***The twelft international conference on applied mathematics and computer science****, Differentiability with respect to parameter for the solutionof Kalecki model, ACAM, Vol. 17/2008, No 1, pp 5-9.*
9. *September 25-27 2008, Sibiu ,* ***Mathematical Inequalities,*** *An integral inequalities for convex functions, Proceedins Gen. Math./2001*
10. *October 9-12 2008, Oradea,* ***The 16th Conference on Applied and Industrial Mathematics,*** *Section 3 Functional Analysis and Equations with Partial Derivates, About some functional integral equation in space with perturbated metric.*
11. *21-22 November 2008,* ***Conference on nonlinear analysis and applied mathematics****, Valahia University of Targoviste, About some functional integral equations in spaces with perturbated metric.*
12. *June, 15-18, 2009,* ***The 5th International Conference 2009 Dynamical Systems and Applications****, Constanta, About some fixed point results in spaces with perturbated metric.*
13. *26-27 June, 2009,* ***Conference on nonlinear analysis and applied mathematics****, Valahia University of Targoviste, An epidemic model in spaces with perturbated metrics.*
14. *September, 17-20, 2009, Constanta,* ***The 17th Conference on Applied and Industrial Mathematics,*** *Section 3 Functional Analysis and Equations with Partial Derivates, An fixed point result inspace with perturbated metric and it application.*
15. *December 2006,* ***National Conference of Applied Physics****,* ***Universitatea Tehnica din Iasi*** *Weakly Picard operator technique to modeling the physics systems describable by differential equations with time delay variable.*
16. 2007, December 17 , Sesiunea anuală de comunicări ştiinţifico-metodice în matematică"300 de ani de la naşterea lui Leonard Euler", SSMR Sibiu, O inegalitate de tip Gronwall cu aplicaţie la dependenţa de date pentru o ecuaţie functional integrală.
17. Participari anuale la Sesiunea de comunicări ştiinţifice organizată de Departamentul de Matematică al Univ. Sibiu, 2001-2008
18. December 8, Sesiunea anuală de comunicări ştiinţifico metodice, SSMR Sibiu,Asupra unei inegalităţi funcţionale .

Data: 07/03/2023 **Semnătura:**