Lista de lucrări

Numele şi prenumele Garda-Mátyás L. Edit-Mária

A. Teza de doctorat.

Titlu: Ecuații condiționale pentru funcții monomiale
(Conditional equations for monomial functions)
Anul susţinerii: 2021
Conducătorul ştiinţific: prof. dr. Zoltán Boros

B. Cărţi publicate

B2. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

- Filep Levente, **Garda-Mátyás Edit**, Oláh-Gál Róbert: Excel közgazdász- és mérnökjelölteknek (Excel pentru studenți la economie și științe inginerești), Ed. Scientia, Cluj-Napoca, 2021, ISBN 978-606-975-053-7, 190 pagini.

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

- Z. Boros, **E. Garda-Mátyás**, Quadratic functions fulfilling an additional condition along the hyperbola $x\ y = 1$, *Aequationes mathematicae*, Volume 97, 2023, 1141–1155, https://doi.org/10.1007/s00010-023-01018-0
- Z. Boros**, E. Garda-Mátyás,** Conditional equations for monomial functions**,** *Publ. Math. Debrecen,* 100/3-4(1), 2022, 263-276, (DOI: 10.5486/PMD.2022.8832)
- **E. Garda-Mátyás**: Quadratic functions fulfilling an additional condition along hyperbolas or the unit circle, *Aequationes mathematicae*, Volume 93 (2), 2019, 451-465, (ISSN: 0001-9054 (Print) 1420-8903 (Online))
- Z. Boros, **E. Garda-Mátyás:** Conditional equations for quadratic functions, *Acta Math. Hungar.*, Volume 154 (2), 2018**,** 389-401. (ISSN: 0236-5294 (Print) 1588-2632 (Online))

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date).

- **Garda-Mátyás Edit**, Makó Zoltán**:** The modified joint optimal strategy concept in zero-sum fuzzy matrix games, *Annales Univ. Sci. Budapest., Sect. Comp.,*Volume 36 (2012), 103-116. (ISSN: 0138-9491, Mathematical Reviews)

- Makó Zoltán, Szenkovits Ferenc, **Garda-Mátyás Edit**, Csillik Iharka: Classification of near Earth asteroids wih artificial neural network, *Studia Univ. "Babeş-Bolyai", Mathematica*, Volume L, Number 1, 2005, 85-92. (ISSN: 0252-1938, Mathematical Reviews)
- Makó Zoltán, Szenkovits Ferenc, **Garda-Mátyás Edit**: Solution of Kepler-equation with artificial neural network. *Automation Computers Applied Mathematics*, 13 (2004), 119-127. (ISSN: 1221-437X, Zentralblatt)

C5. Lucrări ştiinţifice publicate în reviste, altele decât cele menţionate anterior

- **Garda-Mátyás Edit**, Zsombori Gabriella: VII. *Sapi tehetségnap*, Matlap - Ifjúsági matematikai lapok (2017/5), 161-173. (ISSN: 1224-3140)
- **Garda-Mátyás Edit**, Zsombori Gabriella: *Sapi tehetségnap*, Matlap - Ifjúsági matematikai lapok (2012/4), 129-137. (ISSN: 1224-3140)

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

- **Edit Garda-Mátyás**: The solution of quadratic and cubic functions with additional conditions, In N. Benedek (Ed.), *17th International Conference on Economics and Business: Challenges in the Carpathian Basin*, Miercurea Ciuc, Editura RISOPRINT, 2025, pp. 388-396. (ISBN: 978-973-53-3346-8)
- **Garda-Mátyás Edit**, Makó Zoltán, Szenkovits Ferenc, Csillik Iharka: *The chaotic variation of capture effect in the three body problem*, Proceedings of the 4nd International Conference of PHD Students (Natural Science), organizat de Universitatea din Miskolc, Miskolc, 2003, 31-38. (ISBN: 963 661 580 5)

G. Contracte de cercetare (menţionaţi calitatea de director sau membru)

- *Legătura dintre strategiile de proiectare a algoritmilor şi teoria grafurilor*, Inst. Programelor de Cercetare Sapientia, 2008-2009, membru
- *Studierea proceselor complexe cu ajutorul reţelelor neuronale artficiale*, Inst. Programelor de Cercetare Sapientia, 2005-2007, membru
- *Studiul sistemelor dinamice cu metode perturbative şi fuzzy*. Inst. Programelor de Cercetare Sapientia, 2002-2005, membru

J. Citări

1) Z. Boros, **E. Garda-Mátyás**, Quadratic functions fulfilling an additional condition along the hyperbola $x\ y = 1$, *Aequationes mathematicae*, Volume 97, 2023, 1141–1155, https://doi.org/10.1007/s00010-023-01018-0

1.1 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Solutions of Pexiderized Functional Equation on Restricted Domain, Journal of Mathematical Extension, Vol. 19 (6), 2025, (6) 1-14, ISSN: 1735-8299, DOI: 10.30495/JME.2025.3396

1.2 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Conditional Equations Related to Drygas Functional Equation, Oct. 2025, Annales Mathematicae Silesianae, DOI: 10.2478/amsil-2025-0015

1.3 **Eszter Gselmann, Mehak Iqbal:** A functional equation for monomial functions, May 2025, Journal of Applied Analysis, DOI: 10.1515/jaa-2025-0013

1.4 **Mehdi Dehghanian, Sadegh Izadi, Sedigheh Jahedi**: The solution of Drygas functional equations with additional conditions, *Acta Math. Hungar.*, Volume 174(2), 2024, 510-521, DOI: 10.1007/s10474-024-01488-x

1.5 **Bruce Ebanks**: A class of functional equations for additive functions, *Aequationes mathematicae*, 2024, DOI:10.1007/s00010-024-01105-w

2) Z. Boros**, E. Garda-Mátyás,** Conditional equations for monomial functions**,** *Publ. Math. Debrecen*, 100/3-4(1), 2022, 263-276, (DOI: 10.5486/PMD.2022.8832)

2.1 **Eszter Gselmann, Mehak Iqbal:** A functional equation for monomial functions, May 2025, Journal of Applied Analysis, DOI: 10.1515/jaa-2025-0013

2.2 **Eszter Gselmann, Mehak Iqbal**: Monomial functions, normal polynomials and polynomial equations, Aequat. Math., 2023, https://doi.org/10.1007/s00010-023-00972-z

2.3 **Eszter Gselmann**: Polynomial identities satisfied by generalized polynomials, Publ. Math. Debrecen, 2022, https://doi.org/10.48550/arXiv.2104.09160

2.4 **Rayene Menzer**: Report of Meeting: 19th International Conference on Functional Equations and Inequalities, B¦dlewo, Poland, Annales Universitatis Paedagogicae Cracoviensis. Studia Mathematica 20(1), 2022, 129-180, DOI: 10.2478/aupcsm-2021-0009

2.5 **Anteneh Tilahun Adimasu**: Report on the 20th research conference on Functional analysis, Hungary.Annales Mathematicae Silesianae 34 (2020), no. 2, 286–304, DOI: 10.2478/amsil-2020-0007

3) **E. Garda-Mátyás**: Quadratic functions fulfilling an additional condition along hyperbolas or the unit circle, *Aequationes mathematicae*, Volume 93 (2), 2019, 451-465, (ISSN: 0001-9054 (Print) 1420-8903 (Online))

3.1 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Solutions of Pexiderized Functional Equation on Restricted Domain, Journal of Mathematical Extension, Vol. 19 (6), 2025, (6) 1-14, ISSN: 1735-8299, DOI: 10.30495/JME.2025.3396

3.2 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Conditional Equations Related to Drygas Functional Equation, Oct. 2025, Annales Mathematicae Silesianae, DOI: 10.2478/amsil-2025-0015

3.3 **Eszter Gselmann, Mehak Iqbal:** A functional equation for monomial functions, May 2025, Journal of Applied Analysis, DOI: 10.1515/jaa-2025-0013

3.4 **Mehdi Dehghanian, Sadegh Izadi, Sedigheh Jahedi**: The solution of Drygas functional equations with additional conditions, *Acta Math. Hungar.*, Volume 174(2), 2024, 510-521, DOI: 10.1007/s10474-024-01488-x

3.5 **Eszter Gselmann**: Polynomial identities satisfied by generalized polynomials, Publ. Math. Debrecen, 2022, https://doi.org/10.48550/arXiv.2104.09160

3.6 **M. Amou**: Quadratic functions satisfying an additional equation, *Acta Math. Hungar.*, Volume 162(34), 2020, 40-51, DOI: 10.1007/s10474-020-01047-0

3.7 **Anteneh Tilahun Adimasu**: Report on the 20th research conference on Functional analysis, Hungary.Annales Mathematicae Silesianae 34 (2020), no. 2, 286–304, DOI: 10.2478/amsil-2020-0007

4) Z. Boros, **E. Garda-Mátyás:** Conditional equations for quadratic functions, *Acta Math. Hungar.,* Volume 154 (2), 2018**,** 389-401. (ISSN: 0236-5294 (Print) 1588-2632 (Online))

4.1 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Solutions of Pexiderized Functional Equation on Restricted Domain, Journal of Mathematical Extension, Vol. 19 (6), 2025, (6) 1-14, ISSN: 1735-8299, DOI: 10.30495/JME.2025.3396

4.2 **Sadegh Izadi, Sedigheh Jahedi, Mehdi Dehghanian**: Conditional Equations Related to Drygas Functional Equation, Oct. 2025, Annales Mathematicae Silesianae, DOI: 10.2478/amsil-2025-0015

4.3 **Eszter Gselmann, Mehak Iqbal:** A functional equation for monomial functions, May 2025, Journal of Applied Analysis, DOI: 10.1515/jaa-2025-0013

4.4 **Rayene Menzer:** Alternative equations for generalized polynomials, January 2025, Thesis for: Ph.d, DOI: 10.13140/RG.2.2.35848.53767

4.5 **Mehdi Dehghanian, Sadegh Izadi, Sedigheh Jahedi**: The solution of Drygas functional equations with additional conditions, *Acta Math. Hungar.*, Volume 174(2), 2024, 510-521, DOI: 10.1007/s10474-024-01488-x

4.6 **Eszter Gselmann, Mehak Iqbal:** Monomial functions, normal polynomials and polynomial equations, Aequat. Math., 2023, https://doi.org/10.1007/s00010-023-00972-z

4.7 **Zoltán Boros, Rayene Menzer**: An alternative equation for generalized monomials, 2022, Aequationes mathematicae 97(1) 1-8, DOI: 10.1007/s00010-022-00917-y

4.8 **Rayene Menzer**: Report of Meeting: 19th International Conference on Functional Equations and Inequalities, B¦dlewo, Poland, Annales Universitatis Paedagogicae Cracoviensis. Studia Mathematica 20(1), 2022, 129-180, DOI: 10.2478/aupcsm-2021-0009

4.9 **Eszter Gselmann**: Polynomial identities satisfied by generalized polynomials, Publ. Math. Debrecen, 2022, https://doi.org/10.48550/arXiv.2104.09160

4.10 **M. Amou**: Quadratic functions satisfying an additional equation, *Acta Math. Hungar.*, Volume 162(34), 2020, 40-51, DOI: 10.1007/s10474-020-01047-0

4.11 **Anteneh Tilahun Adimasu**: Report on the 20th research conference on Functional analysis, Hungary, Annales Mathematicae Silesianae 34 (2020), no. 2, 286–304, DOI: 10.2478/amsil-2020-0007

5) Makó Zoltán, Szenkovits Ferenc, **Garda-Mátyás Edit**, Csillik Iharka: Classification of near Earth asteroids wih artificial neural network, *Studia Univ. "Babeş-Bolyai", Mathematica*, Volume L, Number 1, 2005, 85-92. (ISSN: 0252-1938, Mathematical Reviews)

5.1 **Bora Chetan Abhijnanam, Kushvah Badam Singh, Saha Kanak:** Long-term Dynamical Evolution and Ejection of Near-Earth Asteroids, ASTROPHYSICAL JOURNAL, Volume 1002/2, 2026, DOI10.3847/1538-4357/ae606f

5.2 **Bora Chetan Abhijnanam, Kushvah Badam Singh, Mouli Gunda Chandra**: Temporal trends in asteroid behaviour: a machine learning and N-body integration approach, Monthly Notices Of The Royal Astronomical Society, 534/1/ 415-430, 2024, DOI: 10.1093/mnras/stae2083

5.3 **I. Szücs-Csillik**: Overview – Regularization and numerical methods in celestial mechanics and dynamical astronomy, 2023, DOI: 10.59277/RoAJ.2023.1-2.03

5.4 **Kaveti Upender, Tammali Sai Krishna, N. Pothanna, P. V. Siva Kumar**: Predicting the Potentially Hazardous Asteroid to Earth Using Machine Learning, 2022, DOI: 10.1007/978-981-16-7389-4_34

5.5 **Cosmin Rosu, Victor Bacu**: Asteroid Image Classification Using Convolutional Neural Networks, Conference paper, Conference: 2021 IEEE 17th International Conference on Intelligent Computer Communication and Processing (ICCP), 2021, DOI: 10.1109/ICCP53602.2021.9733484

5.6 **Vedant Bahel, Pratik Bhongade, Jagrity Sharma, Samiksha Shukla, Mahendra Gaikwad**: Supervised Classification for Analysis and Detection of Potentially Hazardous Asteroid, Conference paper, Conference: 2021 International Conference on Computational Intelligence and Computing Applications (ICCICA), 2021, DOI: 10.1109/ICCICA52458.2021.9697222

K. Participări la conferinţe naţionale şi internaţionale

- 21-23 mai, 2025, 17th International Conference on Economics and Business, Miercurea Ciuc, titlul expunerii: The solution of quadratic and cubic functions with additional conditions

- 15-17 noiembrie 2024, MTNE 2024 - 15. Matematika és Informatika Alkalmazásokkal Konferencia (A 15-a Conferință de Matematică și Informatică cu Aplicații), Miercurea Ciuc, titlul expunerii: Összekapcsolt monom függvénypárok (Perechi de funcții monomiale conectate)

- 10-12 mai, 2023, 16th International Conference on Economics and Business, Miercurea Ciuc, titlul expunerii: Quadratic functions fulfilling an additional condition along hyperbola $xy = 1$

- 3-4 martie, 2021, 15th International Conference on Economics and Business - Challenges in the Carpathian Basin, Global Challenges – Local Answers, Interdependencies or Slobalisation?, Miercurea Ciuc, titlul expunerii: Linked pairs of monomial functions

- 10-12 mai, 2018, 14th Annual International Conference on Economics and Business - Challenges in the Carpathian Basin, Innovation and technology in the knowledge based economy, Miercurea Ciuc, titlul expunerii: Conditional equations for monomial functions

- 7-9 septembrie, 2017, 6th Int. Conf. on Mathematics and Informatics, Târgu Mureș, Romania, titlul expunerii: Quadratic functions fulfilling an additional condition along hyperbolas or the unit circle

- 20-22 octombrie 2016, 13th Annual International Conference on Economics and Business – Challenges in the Carpathian Basin, Miercurea Ciuc, titlul expunerii: Conditional equations for quadratic functions

- 6–7 noiembrie 2009, "Az EME 150 éves" – Emlékkonferencia, Miercurea Ciuc, titlul expunerii: Algoritmustervezési stratégiák gráfelméleti háttere

- 11-17 august 2003, 4th International Conference of PHD Students, University of Miskolc, Miskolc (Ungaria), titlul expunerii: The Chaotic Variation of Capture Effect in the N-Body Problem.

L. Alte realizări semnificative

Organizarea unor conferinţe:

- Membru în colectivul de organizare al conferinţei “ MTNE 2024 - 15. Matematika és Informatika Alkalmazásokkal Konferencia (A 15-a Conferință de Matematică și Informatică cu Aplicații)”, Miercurea Ciuc, 15-17 noiembrie 2024
- Membru în colectivul de organizare al conferinţei “EME 150 éves”, Miercurea Ciuc, 6-7 noiembrie 2009.
- Membru în colectivul de organizare al conferinţei omagiale Bolyai Farkas, Miercurea Ciuc, 25-26 noiembrie 2006.

Data

25.09.2026

Garda-Mátyás Edit