

**Lista de lucrări în domeniul de știință
definit de disciplinele din postul scos la concurs**

NUMELE ȘI PRENUMELE: Áron Fehér

I. LISTA PUBLICAȚIILOR RELEVANTE

1. **Áron FEHÉR**, Lőrinc Márton, Approximation and control of a class of distributed delay systems, Systems & Control Letters, 149, 104882, pg. 9, North-Holland (IF=2.762) – 2021
2. **Áron FEHÉR**, Lőrinc Márton, Mihály Pituk - Asymptotically ordinary linear Volterra difference equations with infinite delay, Applied Mathematics and computation, vol 386, pg. 11, Elsevier (IF=3.092) – 2020
3. **Áron FEHÉR**, Lőrinc Márton, Lehel Nagy, Testbed for Mobile Robot Platoon Control System Evaluation, 2019 IEEE 19th International Symposium on Computational Intelligence and Informatics and 7th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (CINTI-MACRo) – 2019
4. **Áron FEHÉR**, Lőrinc Márton, Mihály Pituk - Approximation of a Linear Autonomous Differential Equation with Small Delay, SYMMETRY 11: (10) p. 1299, pg. 10, (IF=2.645) – 2019
5. **Áron FEHÉR**, Lőrinc Márton, Transient Behaviour Analysis and Design for Platoons with Communication Delay – IFAC PAPERSONLINE 52: (18) pp. 13-18 – 2019
6. **Áron FEHÉR**, Lőrinc Márton, Comparison of the approximation methods for time-delay systems: application to multi-agent systems - Hungarian Journal of Industry and Chemistry 47 (1), 71-77. – 2019
7. **Áron FEHÉR**, Lőrinc Márton, Approximation-based Transient Behavior Analysis of Multi-Agent Systems with Delay - IFAC PAPERSONLINE 51: (14) pp. 159-164. – 2018
8. **Áron FEHÉR**, Denoising ECG signals by applying discrete wavelet transform - Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment 16: pp. 863-868, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 2017
9. **Áron FEHÉR**, Nimród Kutasi, Modelling and Control of Bounded Hybrid Systems in Power Electronics - ACTA UNIVERSITATIS SAPIENTIAE ELECTRICAL AND MECHANICAL ENGINEERING 9: pp. 33-42. – 2017
10. Adrienn Deák, Zoltán Szántó, **Áron Fehér**, Lőrinc Márton – Smartphone-controlled industrial robots: Design and user performance evaluation, IEEE Joint 22nd International Symposium on Computational Intelligence and Informatics and 8th International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics (CINTI-MACRo 2022)

II. LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Teza de doctorat.

Titlu: Asymptotic characterisation of dynamic linear systems with small time delay

Conducători: Prof. Dr. Lőrinc Márton, Prof. Dr. habil Mihály Pituk DSc.

Instituția: University of Pannonia, Faculty of Information Technology, Veszprém, Hungary

Calificativul: Summa Cum Laude

B. Cărți publicate

B1. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS/CNCS.

1. Áron FEHÉR, Lőrinc Márton - Irányítástechnika. Laboratórium útmutató – Editura Scientia, Cluj Napoca, 2019,pg. 117, ISBN: 978-606-975-023-0

B3. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B4. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

B5. Capitole de cărți publicate în străinătate

B6. Capitole de cărți publicate în țară

C. Lucrări științifice publicate

C1. Lucrări științifice publicate în reviste cotate ISI

1. Áron FEHÉR, Lőrinc Márton, Approximation and control of a class of distributed delay systems, Systems & Control Letters, 149, 104882, pg. 9, North-Holland (IF=2.762) – 2021
2. Áron FEHÉR, Lőrinc Márton, Mihály Pituk - Asymptotically ordinary linear Volterra difference equations with infinite delay, Applied Mathematics and computation, vol 386, pg. 11, Elsevier (IF=3.092) – 2020
3. Áron FEHÉR, Lőrinc Márton, Mihály Pituk - Approximation of a Linear Autonomous Differential Equation with Small Delay, SYMMETRY 11: (10) p. 1299, pg. 10, (IF=2.645) – 2019

C2. Lucrări științifice publicate în reviste indexate în baze de date internaționale (indicați și baza de date).

1. Adrienn Deák, Zoltán Szántó, **Áron Fehér**, Lőrinc Márton – Smartphone-controlled industrial robots: Design and user performance evaluation, IEEE Joint 22nd International Symposium on Computational Intelligence and Informatics and 8th International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics (CINTI-MACRo 2022)
2. **Áron FEHÉR**, Lőrinc Márton, Lehel Nagy, Testbed for Mobile Robot Platoon Control System Evaluation, 2019 IEEE 19th International Symposium on Computational Intelligence and Informatics and 7th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Sciences and Robotics (CINTI-MACRo) – 2019
3. **Áron FEHÉR**, Lőrinc Márton, Transient Behaviour Analysis and Design for Platoons with Communication Delay – IFAC PAPERSONLINE 52: (18) pp. 13-18 - 2019
4. **Áron FEHÉR**, Lőrinc Márton, Approximation-based Transient Behavior Analysis of Multi-Agent Systems with Delay - IFAC PAPERSONLINE 51: (14) pp. 159-164. – 2018
5. **Áron FEHÉR**, Denoising ECG signals by applying discrete wavelet transform - Proceedings of the International Conference on Optimization of Electrical and Electronic Equipment 16: pp. 863-868, 2017 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM) & 2017 Intl Aegean Conference on Electrical Machines and Power Electronics (ACEMP), Brasov, Romania, 2017

C3. Lucrări științifice publicate în reviste din străinătate (altele decât cele menționate anterior).

1. **Áron FEHÉR**, Lőrinc Márton, Comparison of the approximation methods for time-delay systems: application to multi-agent systems - Hungarian Journal of Industry and Chemistry 47 (1), 71-77. – 2019

C4. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS/CNCS (altele decât cele din baze de date internaționale).

C5. Lucrări științifice publicate în reviste, altele decât cele menționate anterior

1. **Áron FEHÉR**, Nimród Kutasi, Modelling and Control of Bounded Hybrid Systems in Power Electronics - ACTA UNIVERSITATIS SAPIENTIAE ELECTRICAL AND MECHANICAL ENGINEERING 9: pp. 33-42. – 2017

C6. Lucrări științifice publicate în volumele manifestărilor științifice

D. Traduceri de cărți, capitole de cărți, alte lucrări științifice

E. Editare, coordonare de volume

F. Brevete de invenții și alte titluri de proprietate

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

H. Creația artistică

- H1 Participări la manifestații artistice internaționale
- H2. Participări la manifestații artistice naționale
- H3. Expoziții, filme, spectacole, concerte, discuri de autor, opere internaționale
- H4. Expoziții, filme, spectacole, concerte, discuri de autor, opere naționale
- H5. Produse cu drept de proprietate intelectuală în domeniul artistic

III. RECUNOAȘTEREA

I. Premii, distincții.

J. Citări

La C1.1

1. Faria, T. - Stability for Nonautonomous Linear Differential Systems with Infinite Delay. *J Dyn Diff Equat* (2020).
2. J.G.S. Machado, S. Gomes, T.M.L. Assis, T.J.M.A. Parreiras - Small-signal stability assessment of power systems with multiple transport delays based on s-domain modelling, *International Journal of Electrical Power & Energy Systems*, Volume 131, 2021.
3. Панков, Павел Сергеевич, and Жумагул Кенешовна Жээнтаева. "Фактор-пространства в теории дифференциальных уравнений." *Вестник Кыргызско-Российского Славянского университета* 20, no. 12 (2020): 51-57.
4. J.G.S. Machado, S. Gomes Jr., T.M.L. Assis, T.J.M.A. Parreiras, "Small-signal stability assessment of power systems with multiple transport delays based on s-domain modelling", *International Journal of Electrical Power & Energy Systems*, Volume 131, 2021.
5. Wijaya Kurniawan, Lőrinc Márton – "Sensor Faults Isolation in Networked Control Systems: Application to Mobile Robot Platoons", *Sensors* 2021, volume 21, issue 20.
6. Fahhad H. Alharbi, Abdelrahman S. Abdelrahman, Abdullah M. Alkathity, Hussain M. Al-Qahtani – "Energy transfer and coherence in coupled oscillators with delayed coupling: a classical picture of two-level systems", *Physica Scripta*, volume 97, Number 8.

La C1.2

1. Migda, Janusz, Małgorzata Migda, and Ewa Schmeidel. - "Asymptotic Properties of Solutions to Discrete Volterra Monotone Type Equations" *Symmetry* 13, no. 6: 918, 2021
2. S Jin – "Existence and uniqueness of solutions for the stochastic Volterra-Levin equation with variable delays", *Open Mathematics*, vol. 20, Issue 1, 2022

La C2.1

1. Lőrinc Márton, Lehel Nagy - Cyberattack detection and compensation for distant-controlled mobile robots, 2020 IEEE 20th International Symposium on Computational Intelligence and Informatics, Budapest, Hungary

La C2.5

1. A. Singhal, P. Singh, B. Fatimah, RB. Pachori - An efficient removal of power-line interference and baseline wander from ECG signals by employing Fourier decomposition technique, Biomedical signal processing and control, vol 57, Elsevier, 2020
2. F. A. Castano, A.M. Hernandez, G. Soto-Romero - Assessment of artifacts reduction and denoising techniques in Electrocardiographic signals using Ensemble Average-based method, Computer methods and programs in biomedicine, vol 182, Elsevier, 2019
3. Saumendra Kumar Mohapatra, Mihir Narayan Mohanty - Arrhythmia Detection Using a Radial Basis Function Network With Wavelet Features, International Journal of Knowledge-Based Organisations, vol 10(2), IGI Global, 2020
4. Kai Zheng, Gangquan Si, Chen Duan - Application of a gene diagnosis model in the identification of Kashin-Beck disease and similar joint diseases, 2017 3rd IEEE International Conference on Computer and Communication (ICCC)
5. Shivani Saxena, Ritu Vijay - Optimal Selection of Wavelet Transform for De-noising of ECG Signal on the Basis of Statistical Parameters, International Conference on Soft Computing and Signal Processing (ICSCSP), 2019
6. Davide Cassone, Filippo Molinari, Silvia Seoni – Innovative analysis of ECG in patients with Brugada syndrome, masters thesis in biomedical engineering, 2020

K. Alte realizări semnificative.

Data,
01.09.2023

Semnătura,

