

Lista de lucrări
a candidatului Șl. dr. ing. Paul FARAGÓ

A. Cele mai relevante lucrări științifice

1. Ilesan, RR; Cordos, CG; Mihaila, LI; Flesar, R; Popescu, AS; Perju-Dumbrava, L; **Farago, P**
Proof of Concept in Artificial-Intelligence-Based Wearable Gait Monitoring for Parkinson's Disease Management Optimization
BIOSENSORS-BASEL, vol 12, no. 4, 2022
DOI: 10.3390/bios12040189
WOS: 000785291500001
Q1, FI: 5.74
2. **P. Faragó**, A. -S. Popescu, L. Perju-Dumbravă and R. R. Ileşan,
Wearables as Part of Decision Support System in Parkinson's Disease Prediagnosis: A Case Study
2022 E-Health and Bioengineering Conference (EHB), Iasi, Romania, 2022, pp. 1-4,
DOI: 10.1109/EHB55594.2022.9991543.
3. L. Ivanciu, I. A. Ivanciu, **P. Farago**, M. Roman, S. Hintea,
An ECG-based Authentication System Using Siamese Neural Networks,
JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING
vol. 41, no. 4, pp. 558-570, 2021
DOI: 10.1007/s40846-021-00637-9
WOS:000668062300002
4. **P. Farago**, L. Grama, M. A. Farago, S. Hintea
A Novel Wearable Foot and Ankle Monitoring System for the Assessment of Gait Biomechanics
APPLIED SCIENCES-BASEL
vol. 11 no. 1, 2021
DOI:10.3390/app11010268
WOS:000605931400001
Q2, FI: 2.83
5. **Farago Paul**, Galatus Ramona, Hintea Sorin, Bosca Adina Bianca, Feurdean Claudia Nicoleta, Ilea Aranka
An Intra-Oral Optical Sensor for the Real-Time Identification and Assessment of Wine Intake
Sensors, vol. 19, no. 21, 2019
DOI: 10.3390/s19214719
WOS: 000498834000116
Q2, FI: 3.84
6. R. Galatus, **P. Farago**, P. Miluski, J. A. Valles
Distributed fluorescent optical fiber proximity sensor Towards a proof of concept
Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy, vol. 198, pp. 7-18, 2018,
ISSN: 1386-1425
DOI: 10.1016/j.saa.2018.02.044
WOS: 000432234800002

Q1, FI: 4.83.

7. **P. Faragó**, M. Cirlugea and S. Hintea
A Novel Smart-Shoe Architecture for Podiatric Monitoring
2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 180-183
DOI: 10.1109/TSP49548.2020.9163549
WOS: 000577106400039
IEEE
8. **P. Farago**, R. Groza, S. Hintea
High precision activity tracker based on the correlation of accelerometer and EMG data
2019 42nd International Conference on Telecommunications and Signal Processing (TSP), JUL 01-03, 2019, Budapest, Hungary, pp. 428-431
DOI: 10.1109/TSP.2019.8768874
WOS: 000493442800093
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9. **P. Farago**, R. Groza, L. Ivanciu, S. Hintea
A Correlation-based Biometric Identification Technique for ECG, PPG and EMG
2019 42nd International Conference on Telecommunications and Signal Processing (TSP), JUL 01-03, 2019, Budapest, Hungary, pp. 716-719,
DOI: 10.1109/TSP.2019.8768810
WOS: 000493442800156
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10. **P. Farago**, R. Groza, C. Ignat, M. Cirlugea, S. Hintea
A Fuzzy Expert System for Infection Screening Based on Vital Signs and Activity Data
2018 41ST INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP), JUL 04-06, 2018, Athens, Greece, pp. 581-584,
DOI: 10.1109/TSP.2018.8441355
WOS: 000454845100129
IEEE

B. Teza de doctorat

1. **Faragó Paul**, “Advanced design techniques for some analog reconfigurable circuits”, elaborată în limba engleză sub conducerea prof. dr. ing. Lelia Feștilă

C. Brevete de invenție

-

D. Cărți și capitole în cărți

1. Mihaela Cirlugea, **Paul Farago**, MATLAB for Students . vol I, Editura U.T. Press, 2019, 116 pagini, ISBN 978-606-737-422-3
2. Sorin Hintea, Gabor Csipkes, Doris Csipkes, **Paul Faragó**, Mihaela Cirlugea, Digital Integrated Circuits, Editura Casa Cărții de Știință, Cluj-Napoca, 2017, 294 pagini, ISBN: 978-606-17-1223-6,

3. **Paul Farago**, Botond Kirei, Gabor Csipkes, Sorin Hintea, Descrierea în VHDL a sistemelor cu circuite integrate digitale – îndrumător de proiectare și simulare, U.T.PRESS, Cluj-Napoca, 2014, 118 pag., ISBN 978-973-662-950-1
4. Sorin Hintea, Gabor Csipkes, Doris Csipkes, Lelia Festila, Robert Groza, **Paul Farago**, Mihaela Cirlugea, Reconfigurable Analog circuits for mobile communication – Variable Topology filters and design automation, Editura Casa Cărții de Știință, Cluj-Napoca, 2011, ISBN 978-606-17-0032-5, 248 pagini

E. Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal

ISI

1. Ilesan, RR; Cordos, CG; Mihaila, LI; Flesar, R; Popescu, AS; Perju-Dumbrava, L; **Farago, P**
Proof of Concept in Artificial-Intelligence-Based Wearable Gait Monitoring for Parkinson's Disease Management Optimization
BIOSENSORS-BASEL, vol 12, no. 4, 2022
DOI: 10.3390/bios12040189
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2. L. Ivanciu, I. A. Ivanciu, **P. Farago**, M. Roman, S. Hintea,
An ECG-based Authentication System Using Siamese Neural Networks,
JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING
vol. 41, no. 4, pp. 558-570, 2021
DOI: 10.1007/s40846-021-00637-9
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A Novel Wearable Foot and Ankle Monitoring System for the Assessment of Gait Biomechanics
APPLIED SCIENCES-BASEL
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4. **Farago Paul**, Galatus Ramona, Hintea Sorin, Bosca Adina Bianca, Feurdean Claudia Nicoleta, Ilea Aranka
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Sensors, vol. 19, no. 21, 2019
DOI: 10.3390/s19214719
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Distributed fluorescent optical fiber proximity sensor Towards a proof of concept
Spectrochimica Acta Part A-Molecular and Biomolecular Spectroscopy, vol. 198, pp. 7-18, 2018,
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Q1, FI: 4.83.

6. **P. Farago**, R. Groza, S. Hintea, P. Soser
A Programmable Biopotential Acquisition Front-end with a Resistance-free Current-balancing Instrumentation Amplifier
Advances in Electrical and Computer Engineering, vol. 18, no. 2, 2018, pp. 85 – 92,
DOI: 10.4316/AECE.2018.02011
WOS: 000434245000011
7. **P. Faragó**, C. Faragó, G. Oltean, S. Hintea
An Electronically Tunable Transconductance Amplifier for Use in Auditory Prostheses
Advances in Electrical and Computer Engineering, ISSN: 1582-7445, vol. 15, no. 4, pp. 95 – 100, 2015
DOI: 10.4316/AECE.2015.04013
WOS: 000368499800012
8. **P. Farago**, G. Csipkes, D. Csipkes, C. Farago, S. Hintea
An FPAA Approach to Adaptive Filter Design with Evolutionary Software-driven Reconfiguration
Elektronika ir Elektrotechnika, ISSN: 1392-1215, Vol 20, No 5, pp. 89-96, 2014
DOI: 10.5755/j01.eee.20.5.5579
WOS: 000340681800018
9. **P. Farago**, L. Festila, S. Hintea, G. Csipkes, D. Csipkes, P. Soser
A Transistor-Level Reconfigurable Circuit for Rapid Transconductor Design and Testing
Elektronika ir Elektrotechnika, ISSN 1392-1215, Issue No.1(117), Kaunas Lithuania, pp.99-104, 2012
DOI: 10.5755/j01.eee.117.1.1062
WOS: 000300026100020
10. S. Hintea S., **P. Farago**, M. N. Roman, G. Oltean, L. Festila
A Programmable Gain Amplifier for Automated Gain Control in Auditory Prostheses
Journal of Medical and Biological Engineering, ISSN 1609-0985, Volume 31 No.3, Taiwan, pp.185-192, 2011
DOI: 10.5405/jmbe.740
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11. S. Hintea, **P. Farago**, L. Festila, P. Söser
Reconfigurable Filter Design for Implantable Auditory Prosthesis
Journal of Electronics and Electrical Engineering, ISSN 1392 – 1215, Issue No. 3(99), Kaunas Lithuania, pp. 7–12, 2010
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12. L. Ivanciu, **P. Farago**, S. Hintea, A Review Of ECG Based Biometric Systems, *Acta Technica Napocensis – Electronics and Telecommunications*, ISSN 1221-6542, vol. 59, no. 4. pp1-4, 2018
https://users.utcluj.ro/~atn/papers/ATN_4_2018_1.pdf
13. **P. Faragó**, C. Faragó, S. Hintea, “An ECG Artifact Reduction Methodology Based on Parameter Adaptation of Analog Filters”, *Acta Technica Napocensis – Electronics and Telecommunications*, ISSN 1221-6542, vol. 56, no. 3, pp. 19- 24, 2015
https://users.utcluj.ro/~atn/papers/ATN_3_2015_4.pdf
14. C Faragó, **P Faragó**, S Hintea, G Oltean, “An Evolutionary FPAA Reconfiguration Algorithm Based on the Open Traveling Salesman Problem”, *Acta Technica Napocensis - Electronics and Telecommunicationc*, ISSN 1221-6542, vol. 56, no. 1, pp. 21-28 ,2015.
https://users.utcluj.ro/~atn/papers/ATN_1_2015_5.pdf

15. B. Râza, A. Râza, **P. Faragó**, S. Hintea, "Design Illustration of an EKG Analog Interface Using Genetic Algorithms", Acta Technica Napocensis – Electronics and Telecommunications, ISSN 1221-6542, vol. 55, no 3, pp. 14-19, 2014
https://users.utcluj.ro/~ATN/papers/ATN_3_2014_4.pdf
16. **P. Farago**, T. Jackum, C. Böhm, M. Hofer, "Illustration Of Automatic Digital Synthesis For Camellia-128 Cipher Algorithm", Acta Technica Napocensis, Electronics and Telecommunications, ISSN 1221-6542, Volume 53, No. 1, pp. 99-104, 2012
https://users.utcluj.ro/~atn/papers/ATN_1_2012_4.pdf
17. **P. Farago**, L. Festila, "Sub-1V Bandgap Voltage Reference Optimization With Genetic Algorithms", Acta Technica Napocensis, Electronics and Telecommunications, ISSN 1221-6542, Volume 52, No. 1, pp. 34-39, 2011
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F. Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

ISI Proceedings

1. **Farago, P** ; Cirlugea, M; Hintea, S
Coordination Game Analysis using Brown's Fictitious Play
2021 44th International Conference on Telecommunications and Signal Processing (TSP), pp. 175-178, 2021
DOI: 10.1109/TSP52935.2021.9522656
WOS: 000701604600037
IEEE
2. Cirlugea, M; **Farago, P**; Hintea, S
Facial Recognition Software for Android Operating Systems
2021 44th International Conference on Telecommunications and Signal Processing (TSP), pp. 171-174, 2021
DOI: 10.1109/TSP52935.2021.9522668
WOS:000701604600036
IEEE
3. Cordos, C; Mihaila, L; **Farago, P**; Hintea, S,
ECG signal classification using Convolutional Neural Networks for Biometric Identification
2021 44th International Conference on Telecommunications and Signal Processing (TSP), pp. 167-170
DOI: 10.1109/TSP52935.2021.9522631
WOS: 000701604600035
IEEE
4. **P. Faragó**, M. Cirlugea and S. Hintea
A Novel Smart-Shoe Architecture for Podiatric Monitoring
2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 180-183
DOI: 10.1109/TSP49548.2020.9163549
WOS: 000577106400039
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5. C. Ignat, **P. Faragó** and S. Hintea
FPGA Implementation of a Novel Dual - BRAM Processor Architecture
2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 124-128
DOI: 10.1109/TSP49548.2020.9163584
WOS:000577106400027
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6. M. Cirlugea, **P. Faragó** and S. Hintea
Statistical Study of Small Business Customers using Facebook Ads and Google Analytics
2020 43rd International Conference on Telecommunications and Signal Processing (TSP), Milan, Italy, 2020, pp. 212-215
DOI: 10.1109/TSP49548.2020.9163447
WOS: 000577106400046
IEEE
7. L. Ivanciu, I. Ivanciu, **P. Farago** and S. Hintea
An ECG-Based Authentication Scheme for Body Area Networks
2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME), Cluj-Napoca, Romania, 2019, pp. 114-117
DOI: 10.1109/SIITME47687.2019.8990738
WOS: 000564733700023
[IEEE]
8. **P. Farago**, R. Groza, S. Hintea
High precision activity tracker based on the correlation of accelerometer and EMG data
2019 42nd International Conference on Telecommunications and Signal Processing (TSP), JUL 01-03, 2019, Budapest, Hungary, pp. 428-431
DOI: 10.1109/TSP.2019.8768874
WOS: 000493442800093
IEEE
9. **P. Farago**, R. Groza, L. Ivanciu, S. Hintea
A Correlation-based Biometric Identification Technique for ECG, PPG and EMG
2019 42nd International Conference on Telecommunications and Signal Processing (TSP), JUL 01-03, 2019, Budapest, Hungary, pp. 716-719,
DOI: 10.1109/TSP.2019.8768810
WOS: 000493442800156
IEEE
10. **P. Farago**, A.-M. Băbțan, R. Galatus, R. Groza, N. M. Roman, C. N. Feurdean, A. Ilea
A Side-Polished Fluorescent Fiber Sensor for the Detection of Blood in the Saliva
6TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2018, OCT 17-20, 2018, Cluj-Napoca, Romania, in Vlad, S; Roman, NM, IFMBE Proceedings, vol. 71 pp. 23-28,
DOI: 10.1007/978-981-13-6207-1_4
WOS: 000493501100004
11. A. Raza, **P. Farago**, M. Cirlugea, S. Hintea
An ECG Morphological Analysis Algorithm for Hybrid Patient Monitoring

6TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2018, OCT 17-20, 2018, Cluj-Napoca, Romania, in Vlad, S; Roman, NM, IFMBE Proceedings, vol. 71 pp. 145-149

DOI: 10.1007/978-981-13-6207-1_23

WOS: 000493501100023

12. **P. Farago**, R. Galatus, M. Cirlugea, S. Hintea

Fluorescent Fiber Implementation of an Angle Sensor

2018 20TH ANNIVERSARY INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON), 2018, Bucjarest, Romania, ISSN: 2162-7339

DOI: 10.1109/ICTON.2018.8473637

WOS: 000462559300061

IEEE

13. **P. Farago**, R. Groza, C. Ignat, M. Cirlugea, S. Hintea

A Fuzzy Expert System for Infection Screening Based on Vital Signs and Activity Data

2018 41ST INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS AND SIGNAL PROCESSING (TSP), JUL 04-06, 2018, Athens, Greece, pp. 581-584,

DOI: 10.1109/TSP.2018.8441355

WOS: 000454845100129

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14. **P. Farago**, R. Galatus, S. Hintea, JC Martin, J. Valles, J

Fluorescent Fiber Implementation of a High-resolution Distributed Position Sensor

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WOS: 000452637200037

15. R. Galatus, **P. Farago**, J. Valles

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16. R. Groza, **P. Farago**

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WOS: 000450065900023

17. **Paul Faragó**, Ramona Gălătuș, Cristi Fărcaș, Gabriel Oltean, Nicoleta Toșa

Low-cost Quasi-distributed position sensing platform based on blue fluorescent optical fiber

2017 IEEE 23rd International Symposium for Design and Technology in Electronic Packaging (SIITME), Octombrie 26-29 2017, Constanța, Romania

DOI: 10.1109/SIITME.2017.8259918

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18. **Paul Faragó**, Sorin Hintea, Florin Sandu
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19. Ramona Galatus, **Paul Farago**, Nunzio Cennamo, Cecilia Cristea, Bogdan Feier
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20. Ignat, M.C., **Faragó, P.**, Hintea, S., Roman, M.N., Vlad, S
A single-character refreshable braille display with FPGA control
Proceedings of 5th International Conference on Advancements of Medicine and Health Care through Technology, MEDITECH 2016, Octombrie 12 2016, Cluj-Napoca, Romania, pp. 63-66
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WOS: 000426009100014
21. **P. Farago**, M. Cirlugea, S. Hintea
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DOI: 10.1109/TSP.2016.7760876
WOS: 000390164000057
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22. C Farago, G Oltean, **P Farago**, S Hintea
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2015 IEEE 10th Jubilee International Symposium on Applied Computational Intelligence and Informatics (SACI), Mai 21 2015, Timisoara, Romania, pp. 265-270
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23. **P. Farago**, C. Farago, R. Groza, S. Hintea
An Evolutionary Optimization Methodology of a Low-Power Programmable Cochlear Implant
2015 38th International Conference on Telecommunications and Signal Processing (TSP), Iulie 9-11 2015, Prague, Czech Republic, pp.354-359, 2015, ISBN: 978-1-4799-8498-5
DOI: 10.1109/TSP.2015.7296283
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24. **P. Farago**, G. Oltean, L.-N. Ivanciu

Neural Networks and Wavelet Transform in Waveform Approximation

14th UK Annual Workshop on Computational Intelligence (UKCI) Location: Septemer 08-10 2014, University of Bradford, Bradford, ENGLAND, pp. 96-103

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25. **P. Farago**, D. Bogățeanu, E. Ceuca, C. Moisă, S. Hintea
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26. **Paul Farago**, Gabor Csipkes, Doris Csipkes, Sorin Hintea
An evolutionary approach to design and calibration of reconfigurable OTA-C filters
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DOI: 10.1109/TSP.2012.6256316
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27. Csipkes, D., Csipkes, G., **Farago, P.**, Fernandez-Canque, H., Hintea, S
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DOI: 10.1109/OPTIM.2012.6231881
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A 5th order current mode OTA-C low pass filter with programmable corner frequency
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29. **P. Farago**, S. Hintea, G. Oltean, L. Festila
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30. **P. Faragó**, A. -S. Popescu, L. Perju-Dumbravă and R. R. Ieşan,
Wearables as Part of Decision Support System in Parkinson's Disease Prediagnosis: A Case Study
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31. L. -I. Mihăilă, C. -G. Cordoș, R. R. Ilcșan, **P. Faragó** and S. Hintea
CNN-based Identification of Parkinsonian Gait using Ground Reaction Forces
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32. **Faragó, P.**, Cîrlugea, M., Hintea, S., Fărcaș, C.
A Game-Theoretic Analysis of the Recurrent Patient-Doctor Interaction Using Genetic Algorithms
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33. Cordoș, C., **Faragó, P.**, Hintea, S., Fărcaș, C.
A Matlab Simulation Platform for a Biometric Identification System Based on ECG Fiducial Features
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34. Mihăilă, L., **Faragó, P.**, Fărcaș, C., Hintea, S.
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35. R. Galatus, **P. Farago**, B. Mesesan, S. Hintea, G. Oltean, A. Ilea
Low-cost distributed angle sensor implemented on a fluorescent fiber
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36. R. Galatus, **P. Farago**, T. Marita, L. Zeni
Integrated System SPR Array Sensors based on Side Glow MMA Fibers
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DOI: <https://doi.org/10.1364/BGPPM.2018.JTu2A.80>
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37. **Faragó, P.**, Faragó, C., Hintea, S., Cîrlugea, M.

An evolutionary multi-objective optimization approach to design the sound processor of a hearing aid
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38. **Paul Farago**, Lelia Festila, Peter Söser, Sorin Hintea
Automatic Filter Synthesis Based on Tree Generation and Evolutionary Optimization
Knowledge-Based and Intelligent Information and Engineering Systems, Lecture Notes in Computer
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39. **Faragó, P.**, Feștilă, L., Hintea, S., Söser, P., Csipkes, G., Csipkes, D., Ciufudean, C.
A novel filter design method based on greedy search and genetic algorithms
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