

Curriculum Vitae

Numele și prenumele: Prepeliță (Profir) Aurelia

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Data nașterii 27/03/1961

Cetățenia: Republica Moldova

*Angajat în serviciu: Universitatea de Stat din Moldova,
angajat prin cumul până în anul 2019: Institutul de Fizică Aplicată.*

STUDII

Facultatea de Fizică, U.S.M. (1978 - 1983)

Doctorand la Institutul de Fizică Aplicată, Academia de Științe, R. Moldova (1985 - 1988)
(I.F.A., A.Ș. R. Moldova)

GRADE și TITLURI

Doctor în științe fizico-matematice, specialitatea 01.04.02 – *Fizica teoretică și matematică*,
diploma seria/nr. 000474 eliberată la 16 septembrie 1997.

Titlul științifico-didactic de conferențiar universitar la catedra Fizica Teoretică, atestatul seria
CU, nr. 1255, eliberat la 23 octombrie 2003.

PARTICIPAREA LA PROIECTE DE CERCETARE-DEZVOLTARE, INOVARE ȘI TRANSFER TEHNOLOGIC:

1. Project CSSDT-STCU 6140 „Optoelectronic effects in modernization of advanced
implants”. 01.01.2017 – 1.01.2019.

2. NATO - Science for Peace and Security Programme project no. SfP – 984890 „Energy - efficient decontamination by UV & cold plasma using metamaterials”. 01.01.2017 – 1.01.2019.

DOMENII DE INTERES ȘTIINȚIFIC

Specialitatea 121.03 Programarea calculatoarelor: simulare pe calculator, modelare pacient specifică, rețele Petri, programare paralelă și distribuită, bioinformatica teoretică, modelare matematică;

PUBLICAȚII

În total peste 80 de publicații științifice.

EXPERIENȚA PROFESIONALĂ

2003 - prezent: Universitatea de Stat din Moldova, conferențiar universitar la catedra „Tehnologii de programare” (din octombrie 2015 – Departamentul “Informatică”).

2016 – 1.01.2019: Institutul de Fizică Aplicată, cercetător științific superior.

1999 - 2003: Universitatea de Stat din Moldova, lector superior universitar, prin cumul.

1991 - 2003 : Institutul de Fizică Aplicată, AȘM, cercetător științific inferior/superior.

1989 - 1991: Universitatea Tehnică a Moldovei, lector superior universitar prin cumul.

1989 - 1991: Institutul de Fizică Aplicată, AȘM, inginer de categoria II.

1988 - 1989: Institutul de Fizică Aplicată, AȘM, Inginer superior.

LISTA LUCRĂRILOR
ȘTIINȚIFICE ȘI METODICO-DIDACTICE

ale dnei Prepelită (Profir) Aurelia, dr. șt. fiz.-mat., conf. univ.
numele, prenumele, gradul științific și titlul științific / științifico-didactic

Lucrări științifice:

- Monografii;

Capitol de carte Elsevier (2017):

1. N. Enaki, A. Profir, S. Bizgan, T. Paslari, C. Ristoscu, C. Mihailescu, M. Bădiceanu, I. N. Mihailescu, *Metamaterials for Antimicrobial Biofilm Applications: Photonic Crystals of Microspheres and Optical Fibers for Decontamination of Liquids and Gases*, Chapter 13 in *Handbook of Antimicrobial Coatings*, edited by Prof. Atul Tiwari, Elsevier, <https://doi.org/10.1016/B978-0-12-811982-2.00013-5>, 2018, Pages 257–282, Elsevier Science & Technology Books, 1st Edition, eBook ISBN: 9780128119839, Paperback ISBN: 9780128119822, Imprint: Elsevier, Published Date: 26th, September 2017, 596 p.

- Articole în reviste științifice de peste hotare:

- articole în reviste ISI-Thomson și SCOPUS;

2. Enaki N., Profir A., Ciobanu N., Bazgan S., Nistoreanu A., Turcan M., Starodub E., Paslari T., Ristoscu C., Badiceanu M., Mihailescu, *Optical metamaterials for decontamination of translucent liquids and gases*. J Phys D Appl Phys. 2018, 51(38), 385101-1—385101-11. ISSN 0022-3727. doi 10.1088/1361-6463/aad705 (IF: 2,373).
3. Nicolae Enaki, Sergiu Bazgan, Andrei Nistoreanu, Viorica Tonu, Mariana Turcan, Tatiana Paslari, Elena Starodub, Aurelia Profir, Gianina-Popescu-Pelin, Maria Badiceanu, Carmen Ristoscu, Ion N. Mihailescu; Chapter "Efficient microbial decontamination of translucent liquids and gases using optical metamaterials" in "Advanced Surface Engineering Research", InTech, ISBN 978-953-51-6940-g, Ed. Mohammad Asaduzzaman Chowdhury, 2018.
4. Profir A., Prepelită A., Damaschin R., Prepelită L., Opincă C., *Patient-Specific Modeling of ECG Representation and Thyroid Hormones Regulation by 3D Visual Membrane Petri Nets.*, ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and

Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 242. EHB 2013 proceedings indexed in IEEE Xplore®, Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC (IET) data bases, pp. 1-4.

<http://ieeexplore.ieee.org/document/6707353/?reload=true>

5. Profir A., Damaschin R., Chernisov Gh., Prepelită L., Leticevscaia O., Prepelită A., Patient-Specific Modeling of Blood Glucose Level and Epileptic Activity by 3D Visual Membrane Petri Nets., ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 236. EHB 2013 proceedings indexed in IEEE Xplore®, Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC (IET) data bases, pp. 1-4.

<http://ieeexplore.ieee.org/document/6707347/>

- Materiale în lucrările conferințelor științifice internaționale:

- materiale la conferințe desfășurate peste hotare

6. Profir A., Prepelită A., Damaschin R., Prepelită L., Opincă C., Patient-Specific Modeling of ECG Representation and Thyroid Hormones Regulation by 3D Visual Membrane Petri Nets., ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 242. EHB 2013 proceedings indexed in IEEE Xplore®, Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC (IET) data bases, pp. 1-4.
7. Profir A., Damaschin R., Chernisov Gh., Prepelită L., Leticevscaia O., Prepelită A., Patient-Specific Modeling of Blood Glucose Level and Epileptic Activity by 3D Visual Membrane Petri Nets., ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 236. EHB 2013 proceedings indexed in IEEE Xplore®, Conference Proceedings citation Index (ISI-Proceedings), SCOPUS and INSPEC (IET) data bases, pp. 1-4.
8. Profir A., Prepelită A., Damaschin R., Prepelită L., Opincă C., Patient-Specific Modeling of ECG Representation and Thyroid Hormones Regulation by 3D Visual Membrane Petri Nets., ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 242.

9. Profir A., Damaschin R., Chernisov Gh., Prepeliță L., Leticevscaia O., Prepeliță A., Patient-Specific Modeling of Blood Glucose Level and Epileptic Activity by 3D Visual Membrane Petri Nets., ISBN 978-I-4799-2372-4., Proc. of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, November 21-23, 2013, Iași, România, ID 236.

- materiale la conferințe desfășurate în Republica Moldova;

Rapoarte la conferințe:

10. Enaki, N.; Bazgan, S.; Nisteanu, A.; Tonu, V.; Ciobanu, N.; Turcan, M.; Paslari, T.; Starodub, E.; Profir, A.; Ristoscu, C.; Mihailescu, I.N. Efficient biological decontamination of translucent liquids and gases using optical periodical structures. În: *Abstracts MSCMP 2018, Chisinau, 2018*. 9th International Conference on Materials Science and Condensed Matter Physics, September 25-28, 2018, Chisinau, Moldova , p. 209 . ISBN: 978-9975-142-35-9.
11. N. Enaki, A. Profir, M. Turcan, T. Paslari, S. Bazgan, A. Nisteanu, E. Starodub, C. Ristoscu, I. N. Mihailescu, "Optoelectronic Effects in Modernization of Advanced Implants and Diagnostic", Humboldt Kolleg, Multidisciplinarity in Modern Science for the Benefit of Society an open workshop, Chisinau, 21-22 septembrie, 2017.
- Alte lucrări științifice.
12. Grosu O. Profir A., Elaborarea convertorului RPM-PSYS. *Analele Universității de Stat din Moldova Seria: Științe fizico-matematice*. 2013.

Participări cu comunicări la foruri științifice internaționale:

13. N. Enaki, A. Profir, M. Turcan, T. Paslari, S. Bazgan, A. Nisteanu, E. Starodub, C. Ristoscu, I. N. Mihailescu, "Optoelectronic Effects in Modernization of Advanced Implants and Diagnostic", Humboldt Kolleg, Multidisciplinarity in Modern Science for the Benefit of Society an open workshop, Chisinau, 21-22 septembrie, 2017.
14. Profir A., Prepeliță A., Damaschin R., Prepeliță L., Opincă C., Patient-Specific Modeling of ECG Representation and Thyroid Hormones Regulation by 3D Visual Membrane Petri Nets., *Book of Abstracts of the 4th IEEE International Conference on e-Health and Bioengineering -*

EHB 2013, Grigore T. Popa University of Medicine and Pharmacy, November 21-23, 2013, Iași, România, p. 91.

15. Profir A., Damaschin R., Chernisov Gh., Prepelită L., Leticevscaia O., Prepelită A., Patient-Specific Modeling of Blood Glucose Level and Epileptic Activity by 3D Visual Membrane Petri Nets., Book of Abstracts of the 4th IEEE International Conference on e-Health and Bioengineering - EHB 2013, Grigore T. Popa University of Medicine and Pharmacy, November 21-23, 2013, Iași, România, p. 91.
16. Profir A. Prepelită A., Development of Myocardial Electrical Activity Model. ISBN 978-9975-71-411-2. Abstracts of the International Conference "Mathematics&Information Technologies: Research and Education" (MITRE-2013), Chișinău, R. Moldova, August 18-22, 2013, p. 120-121.
17. Profir A. Prepelită L., Panasel M., Thyroid Activity Regulation Modeling by Petri Nets. ISBN 978-9975-71-411-2. Abstracts of the International Conference "Mathematics&Information Technologies: Research and Education" (MITRE-2013), Chișinău, R. Moldova, August 18-22, 2013, p. 121.

- Articole de sinteză

18. Profir A., 2D Visual Membrane Petri Nets model of allelic gene regulation, ISSN 1857-2073. Studia Universitatis. Seria "Științe exacte și economice", vol. N 2 (42), 2011, p. 44-56.
19. Profir A. Biocomputing system of living cells. Computer Science Journal of Moldova. Vol. 10, n.3(30), 2002, p. 280-297.
20. Profir A., The system of molecular-genetic triggers as self-organizing computing system, Computer Science Journal of Moldova, vol. 9, N.1(25), 2001, p. 53-71.

<http://math.neonet.md/publications/csjm/issues/v9-n1/8264/>

- Articole în reviste de circulație internațională

21. Profir A., Gutuleac E., Boian E. Simulation of Continuous-time P Systems using Descriptive Rewriting Timed Petri Nets. ISBN 0-7695-2453-2. Proc. Symposium on Symbolic and Numeric Algorithms for Scientific Computing - SYNASC, IEEE Computer Science, Printed in the United States of America by The Printing House, 25-29 September 2005, p. 458-461.

<http://ieeexplore.ieee.org/Xplore/login.jsp?url=/iel5/10639/33573/01595887.pdf?arnumber=1595887>

22. Profir A., Damaschin R., Opinca C., Prepeliță L., Prepeliță A., Yang B, Patient-specific computer modelling using 2D and 3D visual membrane Petri Nets, ISSN 1857-2073. Studia Universitatis. Seria “Științe exacte și economice”, vol. N 2 (42), 2011, p. 57-64.
23. Profir A. Modelling of cellular functions by means of timed membrane transducers. Meridian Ingineresc. N. 2. Septembrie, 2011, UTM, Chișinău, pp. 82-87.
24. Kovarskii V.A., Profir A.V. Trigger effect of λ -phage genome switching. Mol. Biol., vol. 25, 1991, p. 1293—1300. (in Russian)
25. Kovarskii V.A., Profir A.V., Trigger model of allelic gene expression. Dominance in transcription rate. Mol. Biol., vol. 31, 1997, pp. 377--380. Translated from 1997 Molekulyarnaya Biologiya, vol. 31, N. 3, p .453--457.
26. Pocosovscaia A. V. (Profir A.), Kovarskii V. A., Processes of Self-oscillation in wave kinetics of mutagenesis. Dokl. Acad. Nauk SSSR. 1990. vol. 313. p. 457-461. (in Russian)
27. Kovarskii V.A., Profir A.V. Trigger mechanism of temperature switching of Src oncogene ts-mutant in Georgiev model. Biofizika, 1989, vol. 34, pp. 259-262 (in Russian).
28. Kovarskii V.A., Profir A.V. Fokker-Plank probabilistic density for molecular-trigger system controlled by regulatory enzymes. Izvestia Akademii Nauk MSSR, Phys., math. and techn. sciences series. 1988, N.2, pp. 54-57. (in Russian)
29. Kovarskii V.A., Profir A.V. Recombination bistability on the basis of sigmoid kinetics of regulatory enzymes. Biofizika, vol. 33, 1988, p. 758-762 (in Russian)
- Articole în culegeri internaționale
30. Profir A., Damaschin R., Prepelita L., ECG Modeling by 3D Visual Membrane Petri Nets. ISBN 978-9975-45-174-1. Proc. of the 7th International Conference on Microelectronics and Computer Science, ICMCS-2011, Chișinău, Republic of Moldova, September 22-24, 2011, pp. 453-456.
31. Profir A., Damaschin R., Prepelita L., Yang B., Membrane Petri Nets Model Optimization using Methods of Functional Locations and Dynamic Priorities. ISBN 978-9975-45-174-1. Proc. of the 7th International Conference on Microelectronics and Computer Science, ICMCS-2011, Chișinău, Republic of Moldova, September 22-24, 2011, pp. 457-460.

32. Profir A., Prepelita L., Damaschin R., Yang B., Patient-Specific Modeling by 2D and 3D Visual Membrane Petri Nets. ISBN 978-9975-45-174-1. Proc. of the 7th International Conference on Microelectronics and Computer Science, ICMCS-2011, Chişinău, Republic of Moldova, September 22-24, 2011, pp. 461-466.
33. Barbacari N., Profir A., Zelinschi C., Gene Regulatory Network Modelling by Means of Membrane Systems, in R. Freund, G. Lojka, M. Oswald, Gh. Paun, Pre-Proc. of the Sixth International Workshop on Membrane Computing (WMC6), June 18-21, 2005, Copyright - Published by: Vienna University of Technolog, Faculty of Informatics, Institute of Computer Languages, 1040 Wien, Austria, p. 162-178
<http://psystems.disco.unimib.it/initial.html>
34. Profir A., Gutuleac E., Ciurganov D., Danu S. Modelling of molecular genetic mechanisms involved in the development of cardiovascular diseases using Visual Membrane Petri Nets. ISSN 0048-7848. 1st National Symposium on e-Health and Bioengineering With International Participation - EHB 2007, 16-17th November, 2007, IAŞI, ROMANIA, printed in Revista medico-chirurgicala a societatii de medici si naturalisti Iasi (appreciated by CNCISIS (B), code 158), pp. 157-160.
35. Profir A., Boian E. Structural membrane modeling of genetic information processing. ISBN (10)973-666-194-6; ISBN (13)979-973-666-194-5. Proc. 8th International Conference on Development and Application Systems, DAS 2006, 25th - 27th May 2006, Copyright 2006- Editura Universitatii Suceava, Suceava, România, p. 310-317.
<http://www.dasconference.ro/papers/2006/D14.pdf>
36. Profir A., Gutuleac E., Boian E., P transducer model of allelic gene network regulation. ISBN (10)973-666-194-6; ISBN (13)979-973-666-194-5. Proc. 8th International Conference on Development and Application Systems, DAS 2006, 25th - 27th May 2006, Copyright 2006- Editura Universitatii Suceava, Suceava, România, p. 405-412.
<http://www.dasconference.ro/papers/2006/E16.pdf>
37. Profir A., Zelinschi C., P transducer model of the living cell. Proceedings of SASM 2005, Anniversary Symposium, Celebrating 25 years from the birth of the Seminar Gr. C Moisil and 15 years from the establishing of the Romanian Society for Fuzzy Systems & A.I., , May 5-7, 2005, Iasi,, Romania, p. 57-64.
38. Profir A., Gutuleac E., Boian E., Simulation of Continuous-time P Systems using Descriptive Rewriting Timed Petri Nets, in G. Ciobanu, Gh. Paun, Pre-Proc. of First International Workshop on Theory and Application of P Systems, September 26-27, 2005, Timisoara, Romania, p. 91-94

39. Profir A., Boian E., Transcription and translation processes modeling by Mealy automata. ISBN 978-9975-929-95-0, ISBN 978-9975-929-95-0. Proc. of the International Conference on Integral Equations and Modeling of Applied Problems IEMAP-2005, dedicated in memory of university professor Vladimir Alexei Zolotarevski, publicat in Vladislav Seichuc, Dumitru Cozma,...; Trade Cooperative Univ. of Moldova, Science Series:UCCM, Vol. 2, 2006. Chişinău, Moldova, p. 369-371.
http://www.uccm.md/biblioteca/IEMAP_vol_2.pdf
40. Profir A., Gutuleac E., Căpăţână A., Prepeliţă L., Predictive computational model of SOS response of E. coli cell. ISBN 978-9975-929-95-0, ISBN 978-9975-929-95-0. Proc. of the International Conference on Integral Equations and Modeling of Applied Problems IEMAP-2005, dedicated in memory of university professor Vladimir Alexei , publicat in Vladislav Seichuc, Dumitru Cozma,...; Trade Cooperative Univ. of Moldova, Science Series:UCCM, Vol. 2, 2006. Chişinău, Moldova, p. 372-376.
http://www.uccm.md/biblioteca/IEMAP_vol_2.pdf
41. Profir A., Zelinski C., Gene regulatory network modelling and simulation. ISBN 978-9975-929-95-0, ISBN 978-9975-929-95-0. Proc. of the International Conference on Integral Equations and Modeling of Applied Problems IEMAP-2005, dedicated in memory of university professor Vladimir Alexei Zolotarevski, publicat in Vladislav Seichuc, Dumitru Cozma,...; Trade Cooperative Univ. of Moldova, Science Series:UCCM, Vol. 2, 2006. Chişinău, Moldova, p. 377-379.
http://www.uccm.md/biblioteca/IEMAP_vol_2.pdf
42. Profir A., Gutuleac E., Boian E., Simulation of Continuous-time P Systems using Descriptive Rewriting Timed Petri Nets, in G. Ciobanu, Gh. Paun, Pre-Proc. of First International Workshop on Theory and Application of P Systems, September 26-27, 2005, Timisoara, Romania, p. 91-94.
43. Profir A., Gutuleac E., Boian E., Simulation and validation of MGT with THPN. Proc. of the 7th International Conference on Development and application systems, DAS 2004, 27th - 29th May, 2004, Suceava, Romania, p. 333-337.
http://www.dasconference.ro/papers/2004/63_E_1_AURELIA_PROFIR.pdf
44. A. Profir, E. Boian, Modeling molecular genetic triggers by means of P systems, A. Alhazov, C. Martín-Vide and Gh. Paun (Editors): Preproceedings of the Workshop on Membrane Computing; Tarragona, July 17-22 2003, 365-386 <http://psystems.disco.unimib.it/initial.html>
45. Profir A., Boian E., P system based of molecular-genetic triggers.- Proc. of the Workshop on Membrane Computing, WMC-02, Curtea de Arges, Romania, August 19-23, 2002, p. 355-370.

- Teze ale comunicărilor științifice

46. Profir A., Yang B., Optimization of membrane Petri nets models using method of dynamic priorities. ISBN 978-9975-71-144-9. Abstracts of the International Conference “Mathematics&Information Technologies: Research and Education” dedicated to the 65 the anniversary of the Moldova State University (MITRE-2011), Chișinău, R. Moldova, August 22–25, 2011, p. 148-149.
47. Profir A., Yang B., Ciurganov D., Prepeliță L., Developing of Patient-specific model of glycemia level. ISBN 978-9975-71-144-9. Abstracts of the International Conference “Mathematics&Information Technologies: Research and Education” dedicated to the 65 the anniversary of the Moldova State University (MITRE-2011), Chișinău, R. Moldova, August 22–25, 2011, p. 149.
48. Profir A., Damaschin R., Prepelita L., ECG representation in Patient-specific model. ISBN 978-9975-71-144-9. Abstracts of the International Conference “Mathematics&Information Technologies: Research and Education” dedicated to the 65 the anniversary of the Moldova State University (MITRE-2011), Chișinău, R. Moldova, August 22–25, 2011, p. 148.
49. Profir A. - modelling of physiological processes using the concept of membrane systems. ISBN 978-9975-70-753-4. Tezele conferinței „Matematica & TI: Cercetare si Educație” (MITRE-2008) Chișinău, R. Moldova, p.90.
50. Ciurganov D., Profir A., Gutuleac E. et. al.- modeling of the clinical evolution of type 2 diabetes applying the concept of membrane systems // proc. of 4th ISCB Student Council Symposium, July 2008, Toronto, Canada, p. 157.
51. Profir A., Guțuleac E., Opincă C., Moscalenco S., Membrane system modeling of lipid metabolism and lipid-trafficking involved in the development of cardiovascular diseases. Bit+. The 7th International Conference “Information Technologies 2007”, 24 -28 April, 2007, Chisinau, Republic of Moldova.
52. Profir A., Barbacari N., Guțuleac E. P transducer model of the optical cellular biosensor, ISBN 978-9975-9728-5-7. Proc. of the International Conference on Information Technologies BIT+ 2006, Chișinău, R. Moldova, p. 77.
53. Profir A., Barbacari N., Curocichin Gh., Boian E., Guțuleac E., Opincă C., Structural membranes modelling of molecular genetic mechanisms involved in the development of arterial hypertension. ISBN 978-9975-9728-5-7. Proc. of the International Conference on Information Technologies BIT+ 2006, Chișinău, R. Moldova, p. 78-79.

54. Profir A., Epifanova I., Prescornic O., Opinca C., Modelling of membrane domains using P systems, Proc. of the 5th Symposium on Mathematics Applied in Biology & Biophysics (BioMathsPhys 2006), June 16-17, 2006, Iași, România, p. 33-34.
55. Profir A., Opinca C., Epifanova I., Prescornic O., Modelling of the influence of modifiable risk factors for cardiovascular diseases, Proc. of the Fourteenth Edition of the Conference on Applied and Industrial Mathematics (CAIM XIV), August 17-19 2006, Chisinau, R. Moldova, p.291.
56. Profir A., Boian E., Opincă C., Modelling of cellular membranes abnormalities involved in the pathogenesis of arterial hypertension, Proc. of the 60th anniversary of the foundation of the Faculty of Mathematics and Computer Science of Moldova State University, septembrie 2006, Chisinau, R. Moldova, p. 71-73.
57. Profir A., Prescornic O., Modelarea nanobiosistemelor, Proc. of the 60th anniversary of the foundation of the Faculty of Mathematics and Computer Science of Moldova State University, septembrie 2006, Chisinau, R. Moldova, p. 70.
58. Profir A., Boian E., Guțuleac E., Căpățână A., Real-time simulation of Gene Regulatory Networks, ISBN 978-9975-9728-4-0 . Proc. of the 4th International Conference on Information Technologies BIT+, 2005, Chișinău, Moldova, p. 106.
59. Profir A., Boian E., Modelling of genetic information processing by finite transducers. Proceedings of the 4th International Conference on “Microelectronics and Computer Science”, September 15-17, 2005, Volume II, p. 108-110.
60. Profir A., Boian E. Molecular genetic triggers as monoidal systems. Conferința corpului didactico-științific "Bilanțul activității științifice a USM în 2000-2002", Chișinău, octombrie, 2003, p. 103-104.
61. Profir A., Gutuleac E., Boian E., Modelling and performance analysis of MGT system by VPNP tool. Proc. of the 2nd International Conference on Information Technologies BIT+, April 7-12, 2003, Chisinau, Moldova, p. 69.
62. Profir A., Boian E., Zelinschi C., Gutuleac E., MGT System as a P Transducer. Proceedings of the Second Conference of Mathematical Sciences from Moldova, Stiinta, Chisinau, 2004, p. 53-54.
63. Profir A., Boian E., Barbacari N., Gutuleac E., Zelinschi C., Modelling Molecular Genetic trigger by Means of P Transducer, *Pre-proceedings of the Fifth Workshop on Membrane Computing (WMC5)*, Milano, Italy, June 2004, 360-362
<http://psystems.disco.unimib.it/initial.html>

64. A. Profir, E. Guțuleac, E. Boian. Auto-organizing processes simulation in Visual Petri Nets +. Proc. of the Conferința cadrelor științifico-didactice a U.S.M., octombrie, 2003, p. 55-57.
65. Profir A., E. Guțuleac, E.Boian. Auto-organizing processes simulation in Visual Petri Nets. Proc. of the Conferința corpului didactico-științific "Bilanțul activității științifice a USM în 2000-2002", Chișinău, 2003, p.100-101.
66. Profir A., Boian E., Zelinschi C. Two-dimensional Holographic Model and Computer Simulation of Patterns Processing, Storing and Restoring. Proceedings of EISCI 2002 (2nd Euro-International Symposium on Computational Intelligence), June 16 - June 19, 2002, Košice, Slovakia.
67. Profir A., Boian E., Computer simulation of diffraction and hologram model. Proc of III International Conference on Microelectronics and Computer Science, ICMCS-02, Chisinau, Republic of Moldova, October 25-28, 2002, p. 83-86.
68. Profir A., Boian E. Molecular-genetic trigger system as monoidal system. Pre-proceedings of the Conference of Applied and Industrial Mathematics 2002 (CAIM-2002), October, 11-13, Pitesti, Romania, p. 14.
69. Profir A. Bistable self-organizing biocomputing model. Pre-proceedings of DNA9 - International Meeting on DNA Based Computers, June 1-4, 2003 Madison, Wisconsin, USA, p. 335.
70. Profir A. Biocomputing system of living cells. 1-page abstract. Proc. of the DNA8 - International Meeting on DNA Based Computers, June 10-13, 2002, Sapporo, Japan, p.337.
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