

Fisa de autoevaluare (conform Anexa 1 - Metodologie proprie)

Citari ale articolelor stiintifice

Nr. Crt.	Lucrare	Citari	Impact factor	Punctaj
1	G. Ciobanu, B. Aman. On the Relationship Between Membranes and Ambients. Biosystems , vol.91(3), 515–530, 2008.	V. Galpin. Equivalences for a biological process algebra. Theoretical Computer Science, vol. 412(43), 6058–6082, 2011	0.698	11.98
		V. Galpin, J. Hillston. A semantic equivalence for Bio-PEPA based on discretisation of continuous values. Theoretical Computer Science, Vol. 412(21), 2142–2161, 2011	0.698	11.98
		P. Kefalas, I. Stamatopoulou, I. Sakellariou, G. Eleftherakis. Transforming communicating X-machines into P systems. Natural Computing, vol.8(4), 817–832, 2009	0.778	6.39
		Konstantinos Giannakis, Theodore Andronikos. Membrane automata for modeling biomolecular processes. Natural Computing. First online: 01 September 2015	0.778	12.78
		Andrei Păun Alfonso Rodríguez-Patón. P Systems Simulating Bacterial Conjugation: Universality and Properties. Fundamenta Informaticae, vol. 153, no. 1-2, pp. 87-103, 2017.	0.687	11.87
		Konstantinos Giannakis, Theodore Andronikos. Membrane automata for modeling biomolecular processes. Natural Computing, March 2017, Volume 16, Issue 1, pp 151–163.	0.778	12.78

2	B. Aman, G.Ciobanu. On the Reachability Problem in P Systems With Mobile Membranes. Lecture Notes in Computer Science, vol.4860, 113–123, 2007	Giorgio Delzanno, Gianluigi Zavattaro. Reachability problems in BioAmbients. Theoretical Computer Science, vol.431, 56–74, 2010	0.698	11.98
		P. Frisco: Computing with Cells - Advances in Membrane Computing. Oxford University Press 2009, ISBN 978-0-19-954286-4, pp. I-XI, 1-345	50	50.00
3	B. Aman, G.Ciobanu. Turing Completeness Using Three Mobile Membranes. UC 2009, Lecture Notes in Computer Science, vol.5745, 42–55, 2009	Giorgio Delzanno, Gianluigi Zavattaro. Reachability problems in BioAmbients. Theoretical Computer Science, vol.431, 56–74, 2010	0.698	11.98
4	B. Aman, G.Ciobanu. Translating Mobile Ambients into P Systems. Electronic Notes in Theoretical Computer Science, vol.171(2), 11–23, 2007	J. Kleijn , M. Koutny. Petri Nets and Membrane Computing. The Oxford Handbook of Membrane Computing. Oxford University Press, 2010	25	25.00
		J. Kleijn , M. Koutny. A Petri net model for membrane systems with dynamic structure. Natural Computing, vol. 8(4), 781–796, 2009	0.778	12.78
5	B. Aman, M. Dezani-Ciancaglini, A. Troina. Type Disciplines for Analysing Biologically Relevant Properties. Electronic Notes in Theoretical Computer Science, vol.227, 2009	L. Bioglio. Enumerated type semantics for the calculus of looping sequences. RAIRO - Theoretical Informatics and Applications, vol.45, 35–58, 2011.	0.558	21.16
6	B. Aman, G. Ciobanu. Decidability Results for Mobile Membranes Derived from Mobile Ambients. Proceedings of CiE 2008 (4th Conference on Computability in Europe), 15–25, 2008	P. Frisco: Computing with Cells - Advances in Membrane Computing. Oxford University Press 2009, ISBN 978-0-19-954286-4, pp. I-XI, 1-345	50	50.00
7	B. Aman, G.Ciobanu. Membrane Systems with Surface Objects. Proceedings of the International Workshop on Computing with Biomolecules (CBM 2008), 17–29, 2008	R. Barbuti, G. Caravagna, A. Maggiolo-Schettini, P. Milazzo. P Systems with Endosomes. International Journal of Computers Communications & Control, vol.4(3), 214–223, 2009	1.374	9.37
8	B. Aman, G. Ciobanu: Reachability problem in mobile membranes. Proc. WMC8, Thessaloniki, June 2007, 111-122	G. Paun. Active Membranes. The Oxford Handbook of Membrane Computing. Oxford University Press, 2010	50	50.00

9	B. Aman, G. Ciobanu. Mobility in Process Calculi and Natural Computing. Springer, 2011	Konstantinos Giannakis, Theodore Andronikos. Membrane automata for modeling biomolecular processes. Natural Computing. First online: 01 September 2015	0.778	12.78
		Konstantinos Giannakis, Theodore Andronikos. Membrane automata for modeling biomolecular processes. Natural Computing, March 2017, Volume 16, Issue 1, pp 151–163.	0.778	12.78
10	Aman, B. and Ciobanu, G. Timers and proximities for mobile ambients. In Computer Science - Theory and Applications, volume 4649 of Lecture Notes in Computer Science, pages 33–43. Springer-Verlag, 2007	Einar Broch Johnsen, Martin Steffen, Johanna Beate Stumpf. Virtually timed ambients: A calculus of nested virtualization. Journal of Logical and Algebraic Methods in Programming Volume 94, January 2018, Pages 109–127	0.692	11.92
11	Alhazov, A., Aman, B., Freund, R.: P systems with anti-matter. Lecture Notes in Computer Science, vol. 8961, pp. 66-85. Springer (2014)	Andrei Alexandru, Gabriel Ciobanu. Generalized Multisets: From ZF to FSM, Computing and Informatics, Vol. 34, 2015, No. 5 , 1133–1150	0.504	10.04
		Andrei Alexandru, Gabriel Ciobanu: Finitely Supported Mathematics - An Introduction. Springer 2016	50	25.00
		Daniel Díaz-Pernila, Miguel A.Gutiérrez-Naranjo. Semantics of deductive databases with spiking neural P systems. Neurocomputing. Available online 8 July 2017	3.317	38.17
12	Alhazov, A., Aman, B., Freund, R., Paun, Gh.: Matter and anti-matter in membrane systems. Lecture Notes in Computer Science, vol. 8614, pp. 65-76. Springer (2014)	Daniel Díaz-Pernila, Miguel A.Gutiérrez-Naranjo. Semantics of deductive databases with spiking neural P systems. Neurocomputing. Available online 8 July 2017	3.317	38.17
13	Bogdan Aman, Gabriel Ciobanu. "Properties of enhanced mobile membranes via coloured Petri nets", Information Processing Letters 112, 243–248 (2012)	Andrei Păun Alfonso Rodríguez-Patón. P Systems Simulating Bacterial Conjugation: Universality and Properties. Fundamenta Informaticae, vol. 153, no. 1-2, pp. 87-103, 2017.	0.687	11.87

14	B Aman, G Ciobanu. Modelling and verification of weighted spiking neural systems. Theoretical Computer Science 623, 92-102, 2016.	Andrei Păun Alfonso Rodríguez-Patón. P Systems Simulating Bacterial Conjugation: Universality and Properties. Fundamenta Informaticae, vol. 153, no. 1-2, pp. 87-103, 2017.	0.687	11.87
15	B Aman, G Ciobanu. Verification of membrane systems with delays via Petri nets with delays. Theoretical Computer Science 598, 87-101, 2015.	Andrei Păun Alfonso Rodríguez-Patón. P Systems Simulating Bacterial Conjugation: Universality and Properties. Fundamenta Informaticae, vol. 153, no. 1-2, pp. 87-103, 2017.	0.687	11.87
16] B. Aman, G. Ciobanu, Mobile ambients with timers and types, in: C.B. Jones, Z. Liu, J. Woodcock (Eds.), Proc. 4th International Colloquium on Theoretical Aspects of Computing, ICTAC'07, in: Lecture Notes in Computer Science, vol. 4711, Springer, 2007, pp. 50–63.	Einar Broch Johnsen, Martin Steffen, Johanna Beate Stumpf. Virtually timed ambients: A calculus of nested virtualization. Journal of Logical and Algebraic Methods in Programming Volume 94, January 2018, Pages 109–127	0.692	11.92
Total				506.44

Articole stiintifice publicate in extenso in reviste cotate Web of Science cu factor de impact

Nr. Crt.	Lucrare	Jurnal/ Conferinta	Impact factor	Scor
1	B. Aman, G. Ciobanu. On the Relationship Between Membranes and Ambients. Biosystems , vol.91(3), 515–530, 2008.	Jurnal	1.652	62.06
2	B. Aman, G. Ciobanu. MINIMAL INGREDIENTS FOR TURING COMPLETENESS N MEMBRANE COMPUTING. PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, vol.18(2), 182-187, 2017.	Jurnal	1.623	61.19
3	B. Aman, G. Ciobanu. Expressing Mobile Ambients in Temporal Logic of Actions. PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A, vol.15(1), 95-104, 2014.	Jurnal	1.623	61.19
4	Bogdan Aman, Gabriel Ciobanu: Verification of critical systems described in real-time TiMo. STTT 19(4): 395-408 (2017)	Jurnal	1.612	60.86
5	B. Aman, G.Ciobanu. Adding Lifetime to Objects and Membranes in P Systems. International Journal of Computers, Communication & Control, vol.V(3), 268-279, 2010.	Jurnal	1.374	53.72
6	Bogdan Aman, Gabriel Ciobanu: Efficiently solving the Bin Packing problem through bio-inspired mobility. Acta Inf. 54(4): 435-445 (2017)	Jurnal	1.000	42.5
7	B. Aman, G. Ciobanu. Solving a Weak NP-complete Problem in Polynomial Time by Using Mutual Mobile Membrane Systems. Acta Informatica, vol. 48(7-8), 409-415, 2011. DOI: 10.1007/s00236-011-0144-9	Jurnal	1.000	42.5
8	B. Aman, P. Battyanyi, G. Ciobanu, G. Vaszil. Simulating P Systems With Membrane Dissolution in a Chemical Calculus. Natural Computing, 1–12 (2016). doi:10.1007/s11047-016-9570-5	Jurnal	0.778	35.84
9	B. Aman, G. Ciobanu. Mutual Mobile Membranes with Objects on Surface. Natural Computing, vol. 10(2), 777–793, 2011.	Jurnal	0.778	35.84
10	B. Aman, G. Ciobanu. Properties of Enhanced Mobile Membranes Via Coloured Petri Nets. Information Processing Letters, vol. 112, 243-248, 2012. DOI: 10.1016/j.ipl.2011.12.003	Jurnal	0.748	34.94
11	B. Aman, G. Ciobanu. Verification of membrane systems with delays via Petri nets with delays. Theoretical Computer Science, vol. 598, 87--101, 2015.	Jurnal	0.698	33.44

12	B. Aman, G. Ciobanu. Modelling and verification of weighted spiking neural systems. Theoretical Computer Science, vol. 598: 87-10, 2015.	Jurnal	0.698	33.44
13	Bogdan Aman, Jetty Kleijn, Maciej Koutny, Dorel Lucanu: Methods for Distributed and Concurrent Systems: Special Issue on the occasion of the 60th Birthday of Professor Gabriel Ciobanu. Fundam. Inform. 153(1-2): v-vi (2017)	Jurnal	0.687	33.11
14	B. Aman, G. Ciobanu. Reversibility in Parallel Rewriting Systems. Journal of Universal Computer Science, vol. 23, no. 7 (2017), 692-703	Jurnal	0.466	26.48
Total				617.11

Articole stiintifice publicate in extenso in reviste indexate BDI

Nr. Crt.	Lucrare	Jurnal/ Conferinta	Scor
1	B. Aman, G. Ciobanu. Verification of distributed systems involving bounded-time migration. IJCCBS 7(3): 279-301 (2017)	Jurnal	7.500
2	B. Aman, G. Ciobanu. Computing by Endocytosis and Exocytosis. Analele Stiintifice ale Universitatii Alexandru Ioan Cuza din Iasi, Matematica, TOM LVII, s.1, 13-24, 2011	Jurnal	7.500
3	B. Aman, G. Ciobanu. Computational Aspects of Mobile Membranes, Brane Calculi and Mobile Ambients. Scholarpedia, 5(7):9420, 2010. ISSN 1941-6016 (online)	Jurnal	7.500
4	B. Aman, G.Ciobanu. Simple, Enhanced and Mutual Mobile Membranes. Transactions on Computational Systems Biology XI, LNBI (LNCS) Vol.5750, 26-44, 2009	Jurnal	7.500
5	B. Aman, M. Dezani-Ciancaglini, A. Troina. Type Disciplines for Analysing Biologically Relevant Properties. Electronic Notes in Theoretical Computer Science, vol.227, 97–111, 2009	Jurnal	5.000
6	B. Aman, G.Ciobanu. Describing the Immune System Using Enhanced Mobile Membranes. Electronic Notes in Theoretical Computer Science, vol.194(3), 5–18, 2008	Jurnal	7.500
7	B. Aman, G.Ciobanu. Translating Mobile Ambients into P Systems. Electronic Notes in Theoretical Computer Science, vol.171(2), 11–23, 2007	Jurnal	7.500

Total	50.000
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Articole stiintifice publicate in extenso in volumele conferintelor

Nr. Crt.	Lucrare	Jurnal/ Conferinta	Scor
1	Bogdan Aman, Gabriel Ciobanu: Analyzing Distributed Pi-Calculus Systems by Using the Rewriting Engine Maude. Lecture Notes in Computer Science 10466, VECoS 2017: 155-170, 2017.	Conferinta	15.000
2	Ross Horne, Alwen Tiu, Bogdan Aman, Gabriel Ciobanu: Private Names in Non-Commutative Logic. CONCUR 2016, LIPIcs 59 31:1-31:16, 2016.	Conferinta	7.500
3	B. Aman, G. Ciobanu. Timed Mobility and Timed Communication for Critical Systems. Lecture Notes in Computer Science, vol.9128, 146-161, 2015.	Conferinta	15.000
4	B. Aman, G. Ciobanu. Automated Verification of Stochastic Spiking Neural P Systems. Lecture Notes in Computer Science, vol.9504, 77-91, 2015.	Conferinta	15.000
5	B. Aman, G. Ciobanu. Behavioural Equivalences in Real-Time P Systems. Lecture Notes in Computer Science, vol. 8340, 88-100, 2014.	Conferinta	15.000
6	B. Aman, G. Ciobanu. Behavioural Types Inspired by Cellular Thresholds. Lecture Notes in Computer Science, vol.8368, 29-43, 2014.	Conferinta	15.000
7	A. Alhazov, B. Aman, R. Freund, Gh. Păun. Matter and Anti-Matter in Membrane Systems. Lecture Notes in Computer Science, vol.8614, 65-76, 2014.	Conferinta	7.500
8	A. Alhazov, B. Aman, R. Freund. P Systems with Anti-Matter. Lecture Notes in Computer Science, vol.8961, 66-85, 2014.	Conferinta	10.000
9	B. Aman, E. Csuhaj-Varju, R. Freund. Red-Green P Automata. Lecture Notes in Computer Science, vol.8961, 139-157, 2014.	Conferinta	10.000
10	B. Aman, G. Ciobanu. Mobile Membranes: Computability and Complexity. ICTAC 2013, Lecture Notes in Computer Science, vol.8049, 59-75, 2013	Conferinta	15.000
11	B. Aman, G. Ciobanu. Real-Time Migration Properties of rTiMo Verified in Uppaal. SEFM 2013, Lecture Notes in Computer Science, vol.8137, 31-45, 2013	Conferinta	15.000
12	B. Aman, G. Ciobanu. Mobile Membranes with Objects on Surface as Colored Petri Nets. Lecture Notes in Computer Science, vol.7762, 128-144, 2013	Conferinta	15.000
13	B. Aman, G. Ciobanu. Mobile Computational Power of Protein Interaction Networks. Lecture Notes in Computer Science, vol.7956, 248-249, 2013.	Conferinta	15.000

14	B. Aman, G.Ciobanu, S. N. Krishna. Solving the 4QBF Problem in Polynomial Time by Using the Biological-Inspired Mobility. ICDCIT 2013, Lecture Notes in Computer Science, vol.7753, 432-443, 2013.	Conferinta	10.000
15	B. Aman, G. Ciobanu, M. Koutny. Behavioural Equivalences over Migrating Processes with Timers. FORTE 2012, Lecture Notes in Computer Science, vol.7273, 52-66, 2012	Conferinta	10.000
16	B. Aman, G. Ciobanu. Coordinating Parallel Mobile Ambients to Solve SAT Problem in Polynomial Number of Steps. COORDINATION 2012, Lecture Notes in Computer Science, vol.7274, 122-136, 2012	Conferinta	15.000
17	S.N. Krishna, B. Aman, G. Ciobanu. On the Computability Power of Membrane Systems with Controlled Mobility. CiE 2012, Lecture Notes in Computer Science, vol.7318, 626-635, 2012	Conferinta	10.000
18	B. Aman, G. Ciobanu, G. Michele Pinna. Timed Catalytic Petri Nets. Proceedings of SYNASC12: 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computing Society, 319-326, 2012	Conferinta	10.000
19	B. Aman, G.Ciobanu. A Temporal Logic for Mutual Mobile Membranes with Objects on Surface. Lecture Notes in Computer Science, Vol.6610, 138-150, 2011.	Conferinta	15.000
20	B. Aman, G. Ciobanu. Time Delays in Membrane Systems and Petri Nets. Electronic Proceedings in Theoretical Computer Science, Vol.57, 47-60, 2011	Conferinta	15.000
21	B. Aman, G.Ciobanu. Typed Membrane Systems. Lecture Notes in Computer Science, vol.5957, 169-181, 2010	Conferinta	15.000
22	B. Aman, G.Ciobanu. Formalizing the Behavior of Biological Processes with Mobility. UC 2010, Lecture Notes in Computer Science, vol.6079, 187-187, 2010	Conferinta	15.000
23	B. Aman, G.Ciobanu. Turing Completeness Using Three Mobile Membranes. UC 2009, Lecture Notes in Computer Science, vol.5715, 42-55, 2009	Conferinta	15.000
24	B. Aman, G.Ciobanu. Resource Competition and Synchronization in Membranes. Proceedings of SYNASC08: 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computing Society, 145-151, 2009	Conferinta	15.000
25	B. Aman, G. Ciobanu. Mutual Mobile Membranes with Timers. Electronic Proceedings in Theoretical Computer Science, vol.6, 1-15, 2009	Conferinta	7.500

26	B. Aman, G.Ciobanu. Timed Mobile Ambients for Network Protocols. FORTE 2008, Lecture Notes in Computer Science, vol.5048, 234–250, 2008	Conferinta	15.000
27	B. Aman, G. Ciobanu. Decidability Results for Mobile Membranes Derived from Mobile Ambients. Proceedings of CiE 2008 (4th Conference on Computability in Europe), 15–25, 2008	Conferinta	2.500
28	B. Aman, G.Ciobanu. Mobile Ambients with Timers and Types. ICTAC 2007, Lecture Notes in Computer Science, vol.4711, 50–63, 2007	Conferinta	15.000
29	B. Aman, G.Ciobanu. On the Reachability Problem in P Systems With Mobile Membranes. Lecture Notes in Computer Science, vol.4860, 113–123, 2007	Conferinta	15.000
30	B. Aman, G.Ciobanu. Timers and Proximities for Mobile Ambients. CSR 2007, Lecture Notes in Computer Science, vol.4649, 33–43, 2007	Conferinta	15.000
31	B. Aman, G.Ciobanu. Structural Properties and Observability in Membrane Systems. Proceedings of SYNASC07: 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, IEEE Computing Society, 74–81, 2007	Conferinta	15.000
32	B. Aman, G. Ciobanu. Mobile Ambients and Mobile Membranes. Proceedings of CiE 2007 (3th Conference on Computability in Europe), 16–27, 2007	Conferinta	2.500
Total			402.500

Carti stiintifice publicate (prima editie)

Nr. Crt.	Carte	Scor
1	B. Aman, G. Ciobanu. Mobility in Process Calculi and Natural Computing. Springer, 2011, 194 pagini	70
Total		70

Coordonare si editare de volume

Nr. Crt.	Carte	Scor
1	Bogdan Aman, Jetty Kleijn, Maciej Koutny, Dorel Lucanu: Methods for Distributed and Concurrent Systems: Special Issue on the occasion of the 60th Birthday of Professor Gabriel Ciobanu. Fundam. Inform. 153(1-2)	15
Total		15

Articole publicate in enciclopedii

Nr. Crt.	Carte	Scor
1	B. Aman, G. Ciobanu. Mobile Membranes and Mobile Ambients. The Oxford Handbook of Membrane Computing. Oxford University Press, 2010	15
Total		15

Contracte de cercetare stiintifica nationale

Nr. Crt.	Proiect	Valoare RON	Functia	Nr. membri	Scor
1	CNMP CEEEX 47/2005	569993	membru	5	20.00
2	CNMP CEEEX 133/2006	200000	membru	5	10.00
3	CNMP PARTENERIATE D1/1052/2007	271077	membru	5	10.00
4	CNCSIS IDEI 402/2007	722696	membru	5	20.00
5	CNCSIS TD 345/2008	27594	director	1	50.00
6	POSDRU/89/1.5/S/49944	20941500	membru	106	19.76
7	IDEI PN-II-ID-PCE-2011-3-0919	1274900	membru	6	25.00
Total					154.76

Premii ale Academiei Romane

Nr. crt.	Premiu	Scor
1	Premiul Grigore Moisil 2013 (rezultate obtinute in 2011)	25
Total		26

Participari la manifestari stiintifice

Nr. crt.	Membru în comitetul științific (de program) al workshopului	Scor
1	5th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2011), Paris (Fontainebleau), France	15
2	6th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2012), Newcastle, UK	15

3	BICT 2014 Special Track on Biologically-Inspired Process Calculi (BIPC)Co-located with 8th International Conference on Bio-inspired Information and Communications Technologies (formerly BIONETICS) - BICT 2013	15
4	Embracing Global Computing in Emerging Economies 26-28 February 2015, Almaty, Kazakhstan	15
5	17th International Conference on Membrane Computing (CMC 2016), Milan, Italia	15
6	18th International Conference on Membrane Computing (CMC18), Bradford, UK	15
7	19th International Conference on Membrane Computing (CMC19), Dresden, Germany	15
Total		105

Nr. crt.	Organizare evenimente științifice	Director/Membru	Scor
1	2nd Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2008), Iasi, Romania	membru	15
2	1st Workshop on Global Computing Models and Technologies (GlobalComp 2008), SYNASC, Timisoara, Romania	membru	15
3	2 nd Workshop on Global Computing Models and Technologies (GlobalComp 2009), SYNASC, Timisoara, Romania	membru	15
4	3rdWorkshop on Global Computing Models and Technologies (GlobalComp 2010), SYNASC, Timisoara, Romania	membru	15
Total			60

Total final

2021.81