

CURRICULUM VITAE

1. Last Name: **Aman**
2. First Name: **Bogdan**
3. Date and place of birth: **26.06.1982, Dorohoi, Botoşani, Romania**
4. Citizenship: **Romanian**
5. Civil status: **married**
6. Studies:

Institution	"Al. I. Cuza" University	"Al. I. Cuza" University	Romanian Academy Iaşi Branch - Institute of Computer Science
Period:	september 2001 - july 2005	sept.2005 - july 2007	nov.2005- oct.2009
Degrees obtained	Licence degree in mathematics- computer science	Master degree in mathematics- computer science	PhD in informatics

7. Scientific title: **PhD in informatics**

8. Professional experience:

Period	September 2005 - December 2005	March 2010 - June 2010
Place:	Iaşi	Iaşi
Institution:	"I. Holban" High School	"Prof.Dr.P.Brânzei" Nursery School
Function:	Mathematics teacher	Informatics teacher

Period	November 2005 - October 2009	September 2007-present
Place:	Iaşi	Iaşi
Institution:	Romanian Academy, Iasi Branch - Institute of Computer Science	"Al.I.Cuza" University - Faculty of Mathematics
Function:	PhD	Research assistant

9. Current workplace and function: **Scientific researcher, Institute of Computer Science, Romanian Academy, Iaşi Branch**
10. Foreing language: **english**
11. Other skills: **process algebra (CCS, pi-calculus, mobile ambients), membrane computing, Petri nets, grammars**
12. Scholarships:

- Research scholarship at Torino University (Italia) for 3 months in 2008 (15 February-15 May 2008) under the supervision of Prof. M.Dezani-Ciancaglini;

13. Experience in other national\international programs:

Project	Function	Period
National: member in research team in project CNMP CEEEX 47/2005	research assistant	2005-2008
National: member in research team in project CNMP CEEEX 133/2006	research assistant	2006-2008
National: member in research team in project CNMP PARTENERIATE D1/1052/2007	research assistant	2007-2010
National: member in research team in project CNCSIS IDEI 402/2007	research assistant	2007-2010
National: project manager CNCSIS TD 345/2008	project manager	2008-2009
National: member in research team in project IDEI PN-II-ID-PCE-2011-3-0919	CS III	2011-2014
International: member in research team in project ICT COST Action IC1201 (Betty)	researcher	2012-present

14. Member in Programme Committee:

- 5th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2011), Paris (Fontainebleau), France
- 6th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2012), Newcastle, UK

15. Event organization:

- 2nd Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2008), Iași, România
- 5th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2011), Paris (Fontainebleau), France
- 6th Workshop on Membrane Computing and Biologically Inspired Calculi (MeCBIC 2012), Newcastle, UK
- 1st Workshop on Global Computing Models and Technologies (GlobalComp 2008), SYNASC, Timișoara, România
- 2nd Workshop on Global Computing Models and Technologies (GlobalComp 2009), SYNASC, Timișoara, România
- 3rd Workshop on Global Computing Models and Technologies (GlobalComp 2010), SYNASC, Timișoara, România
- 2nd High School Mathematics Contest “Gaudeamus”, “Al.I.Cuza” University, Faculty of Mathematics, Iași, România

16. Published Articles:

ISI Publications

1. B. Aman, G. Ciobanu. On the Relationship Between Membranes and Ambients. *Biosystems*, vol.91(3), 515–530, 2008.
2. 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.
3. B. Aman, G. Ciobanu. Mutual Mobile Membranes with Objects on Surface. *Natural Computing*, vol. 10(2), 777–793, 2011.
4. B. Aman, G. Ciobanu. Computing by Endocytosis and Exocytosis. *Analele Științifice ale Universității Alexandru Ioan Cuza din Iași, Matematică*, TOM LVII, s.1, 13-24, 2011.
5. 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.
6. 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.
7. B. Aman, G. Ciobanu. Expressing Mobile Ambients in Temporal Logic of Actions. *PROCEEDINGS OF THE ROMANIAN ACADEMY, Series A* (accepted, to appear).

Journals

8. B. Aman, G.Ciobanu. Simple, Enhanced and Mutual Mobile Membranes. *Transactions on Computational Systems Biology XI*, LNBI vol.5750, 26-44, 2009.

Lecture Notes in Computer Science

9. B. Aman, G.Ciobanu. Timers and Proximities for Mobile Ambients. *Lecture Notes in Computer Science*, vol.4649, 33–43, 2007.
10. B. Aman, G.Ciobanu. Mobile Ambients with Timers and Types. *Lecture Notes in Computer Science*, vol.4711, 50–63, 2007.
11. B. Aman, G.Ciobanu. On the Reachability Problem in P Systems with Mobile Membranes. *Lecture Notes in Computer Science*, vol.4860, 113–123, 2007.
12. B. Aman, G.Ciobanu. Timed Mobile Ambients for Network Protocols. *Lecture Notes in Computer Science*, vol.5048, 234–250, 2008.

13. B. Aman, G.Ciobanu. Turing Completeness Using Three Mobile Membranes. *Lecture Notes in Computer Science*, vol.5715, 42–55, 2009.
14. B. Aman, G.Ciobanu. Typed Membrane Systems. *Lecture Notes in Computer Science*, vol.5957, 169–181, 2010.
15. B. Aman, G.Ciobanu. Formalizing the Behavior of Biological Processes with Mobility. *Lecture Notes in Computer Science*, vol.6079, 187–187, 2010.
16. 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.
17. B. Aman, G. Ciobanu, M. Koutny. Behavioural Equivalences over Migrating Processes with Timers. *Lecture Notes in Computer Science*, vol.7273, 52–66, 2012.
18. B. Aman, G. Ciobanu. Coordinating Parallel Mobile Ambients to Solve SAT Problem in Polynomial Number of Steps. *Lecture Notes in Computer Science*, vol.7274, 122–136, 2012.
19. S.N. Krishna, B. Aman, G. Ciobanu. On the Computability Power of Membrane Systems with Controlled Mobility. *Lecture Notes in Computer Science*, vol.7318, 626–635, 2012.
20. B. Aman, G. Ciobanu, S.N. Krishna. Solving the 4QBF Problem in Polynomial Time by Using the Biological-Inspired Mobility. *Lecture Notes in Computer Science*, vol.7753, 432–443, 2013.
21. B. Aman, G. Ciobanu. Mobile Membranes with Objects on Surface as Colored Petri Nets. *Lecture Notes in Computer Science*, vol.7762, 128-144, 2013.
22. B. Aman, G. Ciobanu. Mobile Membranes: Computability and Complexity. *Lecture Notes in Computer Science*, vol.8049, 59-75, 2013.
23. B. Aman, G. Ciobanu. Real-Time Migration Properties of rTiMo Verified in Uppaal. *Lecture Notes in Computer Science*, vol.8137, 31-45, 2013.
24. B. Aman, G. Ciobanu. Behavioural Equivalences in Real-Time P Systems. *Lecture Notes in Computer Science* (accepted, to appear)

Electronic Notes in Theoretical Computer Science

25. B. Aman, G.Ciobanu. Translating Mobile Ambients into P Systems. *Electronic Notes in Theoretical Computer Science*, vol.171(2), 11–23, 2007.
26. B. Aman, G.Ciobanu. Describing the Immune System Using Enhanced Mobile Membranes. *Electronic Notes in Theoretical Computer Science*, vol.194(3), 5–18, 2008.

27. 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.

IEEE

28. 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.
29. 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.

Electronic Proceedings in Theoretical Computer Science

30. B. Aman, G.Ciobanu. Mutual Mobile Membranes with Timers. *Electronic Proceedings in Theoretical Computer Science*, vol.6, 1–15, 2009.
31. B. Aman, G. Ciobanu. Time Delays in Membrane Systems and Petri Nets. *Electronic Proceedings in Theoretical Computer Science*, vol.57, 47–60, 2011.

International Conferences

32. B. Aman, G.Ciobanu. Mobile Ambients and Mobile Membranes. *Proceedings of CiE 2007 (3th Conference on Computability in Europe)*, 16–27, 2007.
33. 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.
34. B. Aman, G.Ciobanu. Membrane Systems with Surface Objects. *Proceedings of the International Workshop on Computing with Biomolecules (CBM 2008)*, 17–29, 2008.

Others

35. B. Aman, G. Ciobanu. Computational Aspects of Mobile Membranes, Brane Calculi and Mobile Ambients. *Scholarpedia*, 5(7):9420, 2010. ISSN 1941-6016 (online)
36. B. Aman, G. Ciobanu. Formalizing the Low-Density Lipoprotein Degradation. *Analele Universității din București, Seria Matematică-Informatică*, 2010. ISSN 1224-7170.

37. O. Agrigoroaiei, B. Aman, G. Ciobanu. Semantics, Causality and Mobility in Membrane Computing. *ERCIM News*, vol.85, 22, 2011.

Book Chapters

38. B. Aman, G. Ciobanu. Mobile Membranes and Mobile Ambients. *The Oxford Handbook of Membrane Computing*. Oxford University Press, 2010.

Books

39. B. Aman, G. Ciobanu. *Mobility in Process Calculi and Natural Computing*. Springer, 2011.

Technical Reports

40. B. Aman, G. Ciobanu. On the Relationship Between P Systems and Mobile Ambients. pp 33, July, 2006 ISSN 1842 - 1490.
<http://iit.iit.tuiasi.ro/TR/reports/fml0602.pdf>
41. B. Aman, G. Ciobanu. Mobile ambients with time constraints. pp 22, September, 2006 ISSN 1842 - 1490.
<http://iit.iit.tuiasi.ro/TR/reports/fml0603.pdf>
42. B. Aman, G. Ciobanu. Translating Safe Ambients into Mobile Membranes. pp 41, January, 2007 ISSN 1842 - 1490.
<http://iit.iit.tuiasi.ro/TR/reports/fml0701.pdf>
43. B. Aman, G. Ciobanu. Solving Weak NP-Complete Problems in Polynomial Time with Mutual Mobile Membranes. pp 26, October, 2011 ISSN 1842 - 1490.
<http://iit.iit.tuiasi.ro/TR/reports/fml1102.pdf>