



Nicolae Goga

● ABOUT ME

- Part-Time Senior Researcher Molecular Dynamics Group, University of Groningen the Netherlands
- Professor Dr. Ing. Nicolae Goga Department of Engineering in Foreign Languages, University Politehnica Bucharest, Romania

● WORK EXPERIENCE

2006 – 2011

SENIOR RESEARCHER MOLECULAR DYNAMICS GROUP, UNIVERSITY OF GRONINGEN, THE NETHERLANDS

- *Research:* Molecular Dynamics research in algorithms (physics site) and implementation (computer science part). Molecular Dynamics is an interdisciplinary domain at the intersection of physics, chemistry, computer science, biology, medicine, etc. Working in close cooperation with Emeritus Professor Herman Berendsen (<http://www.hjcb.nl/>). **Two developed algorithms are part of Gromacs (www.gromacs.org) package of molecular dynamics, being used by world-wide prestigious groups** (Stanford Univ, Cambridge, etc.) and **powerful companies** (Intel, IBM, etc.). Obtaining and coordinating the research grant *Improved parallel scaling of the Gromacs MD code* from NWO (Dutch Organisation for Scientific Research; www.nwo.nl). Supervising postdoc and PhD teams.
- Continuing the research in IT/ISO standards: ISO/IEEE 11073 and ISO/ANSI HL7. **In this period I obtained IEEE Technology Merits Award, 2010, US Edition (<http://www.rug.nl/news/2011/01/emergingtechnologyaward>).**
- Work of applying formal methods (FM) for medical IT standards was also recognised on website of Spin/Promela tool, developed from Bell Labs, US (<http://spinroot.com/spin/success.html>).
- In 2006, together with Prof. Stegwee Robert, President HL7 Netherlands I **helped starting HL7 Romania (<http://www.hl7romania.ro/>)**. From that moment till present I am its **Honorary President**.

2011 – CURRENT Bucharest, Romania

PROFESSOR DEPARTMENT OF ENGINEERING IN FOREIGN LANGUAGE, POLITEHNICA UNIVERSITY OF BUCHAREST

- *Teaching:* Msc/Bachelor courses in *Software Engineering, Networking, Formal Languages, Formal Methods, Software Testing, Use of IT standards in Medical Informatics*
- *Research:* 1) **Coordinator UPB, EU Eurica Project** – Project for EU/Latin America university exchanges at Postdoc/PhD/Msc/Bachelor levels (www.eurica.nl); 2) **Coordinator UPB: Ro - PN2 Project AIMMS** (Ro-PN-II-PT-PCCA-2013-4-0685); 3) **Coordinator UPB: EU Eurostar Project Premises** (to start in March 2015); supervising PhD and posdoc teams; working further in Molecular Dynamics Research with Emeritus Profesor Berendsen (<http://www.hjcb.nl/>) and in medical IT research with ISO/IEEE11073 (http://standards.ieee.org/findstds/standard/healthcare_it.html) and ISO/ANSI HL7 (www.hl7.org) groups for standards of medical IT (co-authoring 8 ISO/IEEE 11073 standards).
- *Thesis supervision:* Master and Bachelor levels
- **Double Degree Master for Software Engineering:** Politehnica Bucharest and University of Groningen (<http://www.rug.nl/masters/computing-science/programme>) – **Initiator and Coordinator UPB**

2009 – CURRENT

VISITING LECTURER/TRAINER ANDREWS UNIVERSITY, MICHIGAN, US

- *Online teaching:* in Caribbean Islands from an US Accredited Master from Andrews University, Michigan, US. Topics: *Research Methods and Statistics*
- *Short Lecturing/Research Visits:* in Africa in several universities from Ghana, Nigeria, Zambia, Kenya. Topics of lectures/research: Distributed Systems, Medical Informatics, Software Engineering,

Computer Vision, etc. In Nigeria I was called to be part of an international accreditation team for the PhD program at Babcock University, IlishanRemo State.

- **Training:** Online HL7 Course in Medical IT from HL7 International (www.hl7.org) with US diploma. I gave training in US (2009) and Romania (2010 - present). I trained in Romania experts from many companies including Siveco, UTI, Teamnet, InfoWorld, TotalSoft. The experts from UTI were designers for the National Electronic Health Record System of Romania.

Organizations: Andrews University, Michigan, US, Babcock University, Nigeria, Valley View University, Ghana, Rusangu University, Zambia, Adventist African University, Kenya, HL7 Organisation, US

2002 – 2006

RESEARCHER DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, TECHNICAL UNIVERSITY OF EINDHOVEN, THE NETHERLANDS

Research in the application of formal methods for improving the protocol of communication for IEEE 1394.1 standards, ISO/IEEE 11073 and ISO/ANSI HL7 standards within the context of NWO/IQPS project (<http://www.win.tue.nl/oas/iqps/>). During the period of maternal leave of Dr. Judi Romeijn I was the coordinator of the NWO/IQPS project. I represented all the time the Eindhoven group at ISO/IEEE 11073 meetings and I become part of the standardisation group. In 2005 I obtained the second PhD degree from Politehnica Bucharest under the coordination of Prof. Dr. Eng. Florica Moldoveanu.

2005 – 2005

PART TIME RESEARCHER CWI – DUTCH NATIONAL CENTRE FOR MATHEMATICS AND COMPUTER SCIENCE, AMSTERDAM, THE NETHERLANDS

Research in Software Testing for the *ITEA EU Project TT-Medal* (<https://itea3.org/project/tt-medal.html>)

1998 – 2002

ASSISTANT IN RESEARCH TWENTE UNIVERSITY, THE NETHERLANDS

Researcher in the field of formal testing for completion of PhD within Cotes- de-Resyste STW Project (<http://fmt.cs.utwente.nl/CdR/>)

1997 – 1998

TEACHING ASSISTANT DEPARTMENT OF COMPUTER SCIENCE, POLITEHNICA UNIVERSITY OF BUCHAREST

Teaching (laboratory level): Graphics, Computer Vision, Networking, Assembling Language, Hardware CS Components

● **EDUCATION AND TRAINING**

2002 – 2005 Romania

SECOND PH.D Department of Computer Science, Politehnica University of Bucharest

Thesis "Contributions to the Modeling and Verification of Reactive Systems"

1998 – 2004

FIRST PHD Department of Mathematics and Computer Science, Technical University of Eindhoven, the Netherlands

Thesis Control and selection techniques for the automated testing of reactive systems

1996 – 1997

MASTER Faculty of Automatics and Computer science, Politehnica University of Bucharest, Romania

BACHELOR Faculty of Automatics and Computer science, Politehnica University of Bucharest

● **LANGUAGE SKILLS**

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
DUTCH	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Reviewer for several International Conferences and Journals | - Engineer, Researcher, Lecturer | - Part of an International Accreditation team for an university in Nigeria | E-learning - Moodle platform | - Skills ranging from programming to design and research in many CS languages | - Interdisciplinary (technical): Molecular Dynamics and Numerical Methods for Composite Materials | - Interdisciplinary (social): Educational Science

● **ADDITIONAL INFORMATION**

ORGANISATIONAL SKILLS

Leadership Leader of several research projects successfully completed

Teamwork Gained through the work as research, lecturer and team member or leader

DRIVING LICENCE

Driving Licence: B

HOBBIES AND INTERESTS

Piano

HONOURS AND AWARDS

Honorary President - HL7 Romania Organisation that includes key institutions in medical informatics from Romania

2010 IEEE-SA Emerging Technology Awards

General Committee Member of ISO/IEEE 11073 group

Mentioned in Who is Who in Science, US., 2007

Work of applying formal methods (FM) for medical IT standards was also recognised on website of Spin/Promela tool, developed from Bell Labs, US

Invited Speaker Conquest Conference, Germany, 2009

Articles

Senior Researcher Dr. Ir. N. Goga

1. List of five top papers:

Ris (*ISI Web of Science, impact factor 5.49*) Peters, EAJF; Goga, N; Berendsen, HJC. Stochastic Dynamics with Correct Sampling for Constrained Systems, JOURNAL OF CHEMICAL THEORY AND COMPUTATION, Volume: 10 Issue: 10 Pages: 4208-4220, DOI: 10.1021/ct500380x, Published: OCT 2014, WOS:000343196300005

Ris (*ISI Web of Science, impact factor 5.49*) Melo, MN; Goga, N; de Vries, AH; Marrink, SJ; Berendsen, H, Mixing and matching simulations at different resolutions, EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, Volume: 42, Pages: S87-S87, Supplement: 1, Published: JUL 2013, WOS:000330215300199

Ris, (*ISI Web of Science, impact factor 5.49*) N. Goga, A.J. Rzepiela, A.H. de Vries, S.J. Marrink, H.J.C. Berendsen. Efficient algorithms for Langevin and DPD dynamics. *J. Chem. Theory Comput.*, 2012. DOI:10.1021/ct3000876, ISSN: 1549-9618, WOS:000309505600021

Ris (*ISI Web of Science, impact factor 5.49*) Bulacu, M; Goga, N ; Zhao, W ; Rossi, G; Monticelli, L; Periolo, X; Tieleman, DP; Marrink, SJ, Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations, JOURNAL OF CHEMICAL THEORY AND COMPUTATION, Volume: 9 Issue: 8 Pages: 3282-3292, DOI: 10.1021/ct400219n, Published: AUG 2013, WOS:000323193500003

Ris (*ISI Web of Science, impact factor 4,39*) Andrzej J. Rzepiela, Durba Sengupta, **Nicolae Goga**, and Siewert J. Marrink, Membrane poration by antimicrobial peptides combining atomistic and coarse-grained descriptions, *FARADAY DISCUSSIONS*, Volume: 144, Pages: 431-443, Published: 2010, WOS:000276653600023, ISSN: 0192-8651

2. PhD Thesis

T1. N. Goga, *Contributions to the Modeling and Verification of Reactive Systems*, Universitatea Politehnica Bucuresti, 2005.

T2. N. Goga, *Control and selection techniques for the automated testing of reactive systems*, Technische Universiteit Eindhoven Press, the Netherlands, 2004 (neechivalata in Ro)

T3 N. Goga, *Advances in standardised medical informatics and computational molecular dynamics* **Abilitation Thesis sustained on the date on** of 17.02.2016 In Romania

3. Books

Ca Goga, M. and Goga, N. *New Perspectives on Computer Music Génération and Education*. Politehnica Press, ISBN 978-606-515-555-8, 111 pages, 2014.

Ca N. Goga, K. Veil, *Verification Results For It Standards: Firewire, Iso 11073, Ansi/hl7*, Publisher: Vdm Verlag, Germany, ISBN 9783639091021, 194 pages, 2008

Ca. N. Goga, *Control and selection techniques for the automated testing of reactive systems*, Technische Universiteit Eindhoven Press, the Netherlands, ISBN 90-386-0892-6, 188 pages, 2004

Cb. L.M.G. Feijs, N. Goga, S. Mauw, T.A.C. Willemse ((Tim)) Editors, *Nederlandse testdag : 7e, Eindhoven, 8 November 2001 : proceedings*, Technische Universiteit Eindhoven Press, the Netherlands, ISSN 0926-4515, 2001,

4. Chapters in Books

Ca (chapter) **N. Goga**, A. Rzepiela, M. N. Melo, A.H. de Vries, A. Hadar, A.J. Markvoort, S. Nedeia and H.J.C. Berendsen, *Methods for multiscale modeling of membranes*, Chapter in "Advances in Planar Lipid Bilayers and Liposomes" (APLBL) 15 (2012) 139-170. Academic Press, Elsevier Inc, ISBN: 978-0-12-396533-2, ISSN: 1554-4516

5. Articles

Ris (ISI Web of Science, impact factor 5.49) Peters, EAJF; Goga, N; Berendsen, HJC. Stochastic Dynamics with Correct Sampling for Constrained Systems, *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*, Volume: 10 Issue: 10 Pages: 4208-4220 , DOI: 10.1021/ct500380x, Published: OCT 2014, WOS:00034319630000

Ris (ISI Web of Science, impact factor 1.19) Goga, N, Simulating chemical systems: MPI and GPU parallelization of novel SD algorithms, *JOURNAL OF CHEMICAL SCIENCES*, Volume: 125, Issue: 5, Pages: 1285-1292, DOI: 10.1007/s12039-013-0490-y, Published: SEP 2013, WOS:000326296800037

Ris (ISI Web of Science, impact factor 5.49) Bulacu, M; Goga, N ; Zhao, W ; Rossi, G; Monticelli, L; Periolo, X; Tieleman, DP; Marrink, SJ , Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations, *JOURNAL OF CHEMICAL THEORY AND COMPUTATION*, Volume: 9 Issue: 8 Pages: 3282-3292, DOI: 10.1021/ct400219n, Published: AUG 2013, WOS:000323193500003

Ris (ISI Web of Science, impact factor 5.49) Melo, MN; Goga, N; de Vries, AH; Marrink, SJ; Berendsen, H , Mixing and matching simulations at different resolutions, *EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS*, Volume: 42, Pages: S87-S87, Supplement: 1, Published: JUL 2013, WOS:000330215300199

Ris (ISI Web of Science, impact factor 0.39)Egner, A; Moldoveanu, F; Goga, N; Moldoveanu, A; Asavei, V; Morar, A; Customized Test Data Generator for HL7v3 based Healthcare Information Systems, *CONTROL ENGINEERING AND APPLIED INFORMATICS*, Volume: 15, Issue: 3, Pages: 78-86, Published: SEP 2013, WOS:000325118900010

Ris, (ISI Web of Science, impact factor 5.49) N. Goga, A.J. Rzepiela, A.H. de Vries, S.J. Marrink, H.J.C. Berendsen. Efficient algorithms for Langevin and DPD dynamics. *J. Chem. Theory Comput.*, 2012. DOI:10.1021/ct3000876, ISSN: 1549-9618, WOS:000309505600021

Ris (ISI Web of Science, impact factor 4,39) Andrzej J. Rzepiela, Durba Sengupta, **Nicolae Goga**, and Siewert J. Marrink, Membrane poration by antimicrobial peptides combining atomistic and coarse-grained descriptions, *FARADAY DISCUSSIONS* , Volume: 144, Pages: 431-443, Published: 2010, WOS:000276653600023, ISSN: 0192-8651

Ris (ISI Web of Science, impact factor 4,39) Andrzej J. Rzepiela, Lars V. Schäfer, **Nicolae Goga**, H. Jelger Risselada, Alex H. De Vries, Siewert J. Marrink, Reconstruction of atomistic details from coarse-grained structures, *Journal of Computational Chemistry*, Wiley Periodicals, Inc, US, **2010**, WOS:000271017100026 , ISSN: 1364-5498

Ris (ISI Web of Science, impact factor 0.57) Moga, SA; Goga, N; Hadar, A, Combining Berendsen Thermostat with Dissipative Particle Dynamics (DPD) for Polymer Simulation *MATERIALE PLASTICE*, Volume: 50, Issue: 3, Pages: 196-200, Published: SEP 2013, WOS:000324783500011

Ris (ISI Web of Science, impact factor 0.57) Moga, SA; Goga, N; Hadar, A; New Thermostats for Multiscaling Polymer Simulation; *MATERIALE PLASTICE*; Volume: 49; Issue: 3; Pages: 146-150; Published: SEP 2012; WOS:000309699300003

Ris (ISI Web of Science, impact factor 0.57) Nedea, S; Goga, N; Markvoort, B; Van Steenhoven, A; New Multiscale Heat Transfer Techniques, *MATERIALE PLASTICE*, Volume: 48, Issue: 2, Pages: 132-137, Published: JUN 2011, WOS:000292630200004

Ris (ISI, impact factor 0.57) NICOLAE GOGA, STEFANIA COSTACHE, SIEWERT MARRINK. New Gromacs Implementations for Multiscaling Space MD, *MATERIALE PLASTICE*, Volume: 46, Issue: 3, Pages: 220-223, Published: 2009, WOS:000272488600002 , ISSN: 0025-5289

Ris (ISI, impact factor 0.57) NICOLAE GOGA, STEFANIA COSTACHE, SIEWERT MARRINK, A *Multiscalling Constant Lambda Molecular Dynamic Gromacs* Implementation, *MATERIALE PLASTICE*. Volume: 46, Issue: 1, Pages: 53-57, Published: 2009, WOS:000265431100010, ISSN: 0025-5289

Ris (BDI, Indexed by Google Scholar) Goga, N., Implementing heuristic testing selection, *WSEAS Transactions on Communications*, Volume: vol.2, no.4, Pages: 398-403, ISSN 1109-2742, Published: Oct. 2003

Rio S. A. Moga, G. Dragoi, A. Hadar, and N. Goga. A Parallelization Scheme for New DPD-B Thermostats, *Journal of Atomic and Molecular Physics* Volume 2013 (2013), Article ID 579696, Doi: <http://dx.doi.org/10.1155/2013/579696>

Rio Goga, M.; **Goga**, N. Form analyse optimisations for hymnal computer music, *WSEAS Transactions on Acoustics and Music*, Volume: vol.1, no., Pages: 6-10, Published: Jan. 2004

Rio N. Goga. Probabilistic Testing Coverage, *WSEAS Transactions on Mathematics*, Vol. I, pages 198-204, USA, 2003. Extended article accepted in AVOCs'03, England.

Rio N. Goga. A corollary of Fermat's Theorem". In V.A. Artamonov, G.I arhipov and V.N. Bezverhni editors, *Russian journal of theoretical Science*, pages 134-142, Russia, 2003. Abstract published also in *International Conference: Algebra and Number Theory, Modern Problems and Applications*, Tula, Russia, 2003.

6. Articles in International Conferences

Vis (ISI Proceedings, Indexed) Pestrutu, L; Todiruta, A; Goga, M; Goga, N, Method for Measuring the Heart Rate Through Fingertip Using a Low-end Video Camera and Its Application in Self Care, 2013 IEEE 13TH INTERNATIONAL CONFERENCE ON BIOINFORMATICS AND BIOENGINEERING (BIBE), Published: 2013, WOS:000335217700114

Vis (ISI Proceedings, Indexed) Vasilateanu, A; Goga, N; Sutu, T; Nastasescu, M; Moldoveanu, A; Asavei, V; Taslitchi, C; QUESTOR - automatic searching for reports, 19TH INTERNATIONAL CONFERENCE ON CONTROL SYSTEMS AND COMPUTER SCIENCE (CSCS 2013), Pages: 263-267, DOI: 10.1109/CSCS.2013.60, Published: 2013, WOS:000328493800039

Vis (ISI Proceedings, Indexed) Goga, N; Moga, A; Berendsen, H; Dragoi, G; Hadar, A; Paviloiu, B; Baoukina, S; MPI parallelization of innovative DPD thermostats, 2013 IEEE INTERNATIONAL CONFERENCE ON HEALTHCARE INFORMATICS (ICHI 2013), Pages: 476-476, DOI: 10.1109/ICHI.2013.64, Published: 2013, WOS:000332894400058

Vis (ISI Proceedings, Indexed) Vasilateanu, A; Goga, N; Moldoveanu, F; Moldoveanu, A; Taslitchi, C; Questor: medical report search engine, 2013 IEEE INTERNATIONAL CONFERENCE ON HEALTHCARE INFORMATICS (ICHI 2013), Pages: 478-478, DOI: 10.1109/ICHI.2013.66, WOS:000332894400060

Vis (ISI Proceedings, Indexed) Todiruta, A ; Goga, M; Pestrutu, L; Ciobanu, L; Goga, N; StressFree - a tool for stress determination and treatment through computer music generation, 2013 IEEE INTERNATIONAL CONFERENCE ON HEALTHCARE INFORMATICS (ICHI 2013), Pages: 477-477, DOI: 10.1109/ICHI.2013.65, Published: 2013, WOS:000332894400059

Vis (ISI Proceedings, Indexed) N. Goga, S. Marrink, R. Cioromela, F. Moldoveanu, *GPU-SD and DPD parallelization for Gromacs tools for molecular dynamics simulations*, 2012 IEEE 12th International Conference on Bioinformatics & Bioengineering (BIBE), Cyprus, 2012, WOS:000315332900051

Vis (ISI Proceedings, Indexed) Goga, N; Costache, S; Moldoveanu, F. A formal analysis of ISO/IEEE P11073-20601 standard of medical device communication, *3rd Annual IEEE Systems Conference 2009*, Date: MAR 23-26, 2009 Vancouver CANADA, Pages: 163-166 Published: 2009, WOS:000267591000029

Vis (ISI Proceedings, Indexed) Goga, N; Marrink, S; Costache, SV, et al, Multiscaling Algorithms for Molecular Dynamics Simulations with GROMACS *3rd Annual IEEE Systems Conference 2009*, Date: MAR 23-26, 2009 Vancouver CANADA, Pages: 350-353 Published: 2009, WOS:000267591000063

Vis (ISI Proceedings, Indexed) Goga, M; **Goga**, N, Student Vision Regarding an Ideal e-Tutor in Romania, *7th European Conference on e-Learning*, Date: NOV 06-07, 2008 Agia Napa CYPRUS, Source: 7TH EUROPEAN CONFERENCE ON E-LEARNING, VOL 1 Pages: 435-442 Published: 2008, WOS:000263192600054

Vis (ISI Proceedings, Indexed) Calame, J.R.; **Goga**, N.; Ioustinova, N., et al. TTCN-3 testing of Hoorn-Kersenboogerd railway interlocking, *2006 Canadian Conference on Electrical and Computer Engineering*, Date: Ottawa, Ont. Canada, Pages: 4 pp. |CD-ROM Published: 2007, WOS:000245344704024

Vis (ISI Proceedings, Indexed) **Goga**, N.; Moldoveanu, F.; Goga, M. Test selection and coverage based on CTM and metric spaces 2006 Canadian Conference on Electrical and Computer Engineering, Date: Ottawa, Ont. Canada, Pages: 4 pp. |CD-ROM Published: 2007, WOS:000245344700097

Vis (BDI – IEEE explore, Indexed) Wesselink, W.; **Goga**, N.; Mooij, A.J., et al., Formal methods impact on ANSI standard HL7/IM - filling gaps in MSC theory, Conference Information: *2005 Canadian Conference on Electrical and Computer Engineering*, Date: Saskatoon, Sask. Canada, Pages: 1656-9 |CD-ROM, 2005, ISSN : 0840-7789,

doi: 10.1109/CCECE.2005.1557301

Vis (BDI – IEEE explore, Indexed) N. Goga and F. Moldoveanu. Bit boundary testing coverage. *2005 Canadian Conference on Electrical and Computer Engineering.*, IEEE Canada, 2005, ISSN : 0840-7789, doi:10.1109/CCECE.2005.1556958

Vis (ISI Proceedings, Indexed) Mooij, A.J.; Goga, N.; Romijn, J.M.T., Non-local choice and beyond: intricacies of MSC choice nodes, *Fundamental Approaches to Software Engineering. 8th International Conference, FASE 2005 Held as Part of the Joint European Conference on Theory and Practice of Software, ETAPS 2005. Proceedings*, Date: Edinburgh UK Pages: 273-88+371 Published: 2005, WOS:000229183200020

Vis (ISI Proceedings, Indexed) Mooij, AJ; Goga, N, Dealing with non-local choice in IEEE 1073.2's standard for remote control *4th International SDL and MSC Workshop*, Date: JUN 01-04, 2004 Ottawa CANADA, SYSTEM ANALYSIS AND MODELING Volume: 3319 Pages: 257-270 Published: 2005, WOS:000228865500017

Vis (ISI Proceedings, Indexed) Goga, N., Probabilistic testing for a distributed conference protocol, *2004 IEEE International Conference on Systems, Man and Cybernetics*, Date: The Hague Netherlands, (IEEE Cat. No.04CH37583) Pages: 5154-8 vol.6|7 vol. Published: 2004, WOS:000226863300868

Vis (ISI Proceedings, Indexed) Nicolae, G.; Moldoveanu, F., A distance coverage measure for bit boundary value analyse, *IEEE International Conference on Systems, Man and Cybernetics (IEEE Cat. No.04CH37583)* Pages: 973-7 vol.1-7, Published: 2004, WOS:000226863300165

Vis (ISI Proceedings, Indexed) Goga, N.; Romijn, J., Guiding Spin simulation, Formal Methods and Software Engineering. *6th International Conference on Formal Engineering Methods, ICFEM 2004*. Proceedings, Date: Seattle, WA USA, Formal Methods and Software Engineering, Lecture Notes in Computer Science Vol.3308, Pages: 176-93|xiii+500 Published: 2004. , WOS:000225639600016

Vis (ISI Proceedings, Indexed) Nicolae, G; Moldoveanu, F; Telea, A., Shading in a distributed environment, *8th International Conference on Information Visualisation*, Date: JUL 14-16, 2004 London ENGLAND, Pages: 1003-1006 Published: 2004, WOS:000223198000147

Vis (ISI Proceeding Indexed) Nicolae, G. Racovita, Z, Telea, A., Texture mapping in a distributed environment, SEVENTH International Conference on Information Visualisation Book Series: IEEE CONFERENCE ON INFORMATION VISUALIZATION - PROCEEDINGS, London, England, 2002, WOS:000184737800007

Vis (ISI Proceedings, Indexed) Belinfante, A., Feenstra, P.R., Vries, R. de, Tretmans, J., Goga, N., Feijs, L.M.G., Mauw, S., Heerink, L. (1999). Formal test automation : a simple experiment. In G. Csopaki, S. Dibuz, K. Tarnay (Eds.), *Testing of Communicating Systems, Methods and Applications* , Vol. 147, pp. 179-196) Dordrecht: Kluwer, Budapest, Hungary, September 1-3, 1999, WOS:000088555300012

Vi (IEEE explore Proceedings, Indexed) Goga, M.; Goga, N. Feelings based computer music, *Canadian Conference on Electrical and Computer Engineering 2004* (IEEE Cat. No.04CH37513) Pages: 673-6 Vol.2|2908 Published: 2004, ISSN:

0840-7789, doi: 10.1109/CCECE.2004.1345202

Vi (IEEE explore indexed) van Langevelde, I.; Romijn, J.; Goga, N., Founding FireWire bridges through Promela prototyping, *International Parallel and Distributed Processing Symposium (IPDPS 2003)*, Nice France Pages: 8 pp.|CD-ROM Published: 2003, ISSN : 1530-2075, Doi: 10.1109/IPDPS.2003.1213434

Vi Feijs, L.M.G., Mauw, S., Goga, N., Tretmans, J. (2002). Test selection, trace distance and heuristics. In I. Schieferdecker, H. König, A. Wolisz (Eds.), *Testing of Computer Systems XIV: Applications to Internet Technologies and Services (Proceedings TestCom 2002)*, Berlin, Germany, March 19-22, 2002), pp. 267-282, Norwell MA, USA: Kluwer Academic Publishers., 2002

Vi Goga, N., Comparing TorX, Autolink, TGV and UIO test algorithms, *SDL 2001: Meeting UML. 10th International SDL Forum*. Proceedings, Date: Copenhagen Denmark, Lecture Notes in Computer Science Vol.2078, Pages: 379-402|xi+437, Published: 2001

Vi N. Goga, Invited Speaker *Conquest Conference*, Germany, 2009,

Vi M. Goga, N. Goga. The role of e-tutor in e-learning. *IOCEDL 2007*, Greece.

Vi M.Goga, N.Goga. Music Generation in Education. *Proceedings of International Conference on Arts and Humanities*, USA, Hawaii, 2005.

Vi A. Mooij, N. Goga and W. Wesselink. A distributed spanning tree algorithm for topology-aware networks". In H. Unger editors, *Design, Analysis and Simulation of Distributed Systems*, Washington, USA, 2004. Also available as Technical Report Nr 03-09 of Eindhoven University of Technology

Vi M. Goga and N. Goga. An optimization of the Aesthetic MelodyLine of Computer Music, Abstract published at the *International Conference for Music Perception and Cognition*, Las Vegas, USA, 2003.

Vi N. Goga. A probabilistic coverage for on-the-fly test generations algorithms. In M. Leuschel, S. Gruner and S. Presti, editors, *Automated Verification of Critical Systems (AVoCS'03)*, pages 15--30. University of Southampton, England, 2003

Vi M.Goga and N. Goga. Aesthetic Analyse of Computer Music. In G. Soddu editors, *6'th International Conference of Generative Art*, pages 174-186, Milano, Italy, 2003.

Vi N. Goga. Experimenting with the probabilistic TorX, In P.D. Curtis, editors, *Software Engineering for High Assurance System*, pages 13--21. Software Engineering Institute, Portland, Oregon, USA, 2003.

Vi Feijs, L.M.G., Goga, N., Mauw, S. (2000). Probabilities in the TorX test derivation algorithm. In S. Graf, E. Sherratt, C. Jard, Y. Lahav (Eds.), *SAM 2000, Proceedings 2nd Workshop on SDL and MSC*, Col de Porte, Grenoble, France, June 26-28, 2000, pp. 173-188, VERIMAG, IRISA, SDL Forum, 2000

Vi Vries, R. de, Tretmans, J., Belinfante, A., Feenstra, J., Feijs, L.M.G., Mauw, S., Goga, N., Heerink, L. (2000). Côte de Resyste in PROGRESS. In J. P. Veen, J.P. Veen (Eds.), *Proceedings of the 1st PROGRESS Workshop on Embedded Systems*, Revised Edition. (pp. 157-164). Utrecht: STW Technology Foundation, (Utrecht, The Netherlands, October 13, 2000

7. Other Scientific Contributions

Rno N. GOGA, Florica Moldoveanu, A technique for guiding Spin simulations, *U.P.B. Sci. Bull.*, Series C, Vol. 67, No. 3, 2005

Vn M. Goga and N. Goga. An optimization of the computer music. In I. Dumitrache, P. Borne and N. Cupcea, editors, *14'th International Conference on Control Systems and Computer Science*, pages 98-103, Romania, 2003.

Vn N.Goga. Implementing the test selection theory. In I. Dumitrache, P. Borne and N. Cupcea, editors, *14'th International Conference on Control Systems and Computer Science*, pages 103-109, Romania, 2003

N. Goga co-author, *IEEE Standard 11073-10420TM - Standard for Health informatics – Personal health device communication – Part 10420: Device specialization – Body composition analyzer*, IEEE Press, US, ISBN 978-0-7381-6368-0, 2010.

N. Goga co-author, *IEEE Standard 11073- 10472TM. Standard for Health informatics – Personal health device communication – Part 10472: Device specialization – Medication monitor*, IEEE Press, US, ISBN 978-0-7381-6212-6, 2010.

N. Goga co-author, *IEEE Standard 11073- 10421TM. Standard for Health informatics – Personal health device communication – Part 10472: Device specialization – Peak expiratory flow monitor (peak flow)*, IEEE Press, US, ISBN 978-0-7381-6212-8, 2010.

N. Goga co-author, *ISO/IEEE Standard 11073-20601TM-2008 -Health informatics—Personal health device communication Part 20601: Application profile—Optimized Exchange Protocol*, IEEE Press, ISBN 978-0-7381-5827-3, US, 2008.

8. Research Grants

Pi N.Goga – initiator and initial director of Eurostar Project i_Bracelete (<http://i-bracelet.eu/en/home-page/>)

Pi N.Goga – initiator and initial director of Eurostar Project i-Light (<http://ilightproject.eu/>)

Pi N. Goga, Director Eureka Project Questor, 2012-2014

Pi N. Goga, director, NWO, *Improved parallel scaling of the Gromacs MD code*, 2011

Pi N. Goga-director, NWO¹, *Improving the Quality of Protocol Standards Grant*, 2002-2006

Pi N. Goga – director, *Managing Wireless Medical Devices Course Development Grant*, Virtually University of Bavaria („Virtuelle Hochschule Bayern”), Germany, 2011

Pi N. Goga – director, *Management of Internet of Things for Telehealth Applications Grant*, Virtually University of Bavaria („Virtuelle Hochschule Bayern”), Germany, 2012

Pi .N. Goga- *Coordinator UPB: Eurostar Project No.8949 Premises*

Pi N. Goga - *Coordinator UPB– Erasmus Mundus Eurica Grant* – fellowships for Postdoc/PhD/Msc/Bachelors between Latin America and Europe, 2013-2016,



¹ Dutch Organization for Scientific Research-<http://www.nwo.nl/>