- 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

**Europass Curriculum Vitae**

## Personal information

| | |
|---|---|
| First name(s) / Surname(s) | Nicolae Goga |
| Address(es) | |
| Telephone(s) | |
| Fax(es) | |
| E-mail | |
| Nationality | Romanian/ Permanent Residence Permit for the Netherlands |
| Date of birth | |
| Gender | Male |

## Work experience

| | |
|---|---|
| Dates | 2006- 2011 |
| Occupation or position held | Senior Researcher |
| Main activities and responsibilities | |

- *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).

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|---|---|
| | - In 2006, together with Prof. Stegwee Robert, President HL7 Netherlands I *helped staring HL7 Romania* (http://www.hl7romania.ro/). From that moment till present I am its *Honorary President*. |
| Name and address of employer | Molecular Dynamics Group, University of Groningen, the Netherlands (http://www.rug.nl/research/molecular-dynamics/) |
| Type of business or sector | Computational Chemistry |
| Dates | October 2011 - prezent |
| Occupation or position held | Lecturer (2011-2013)/Associate Professor (2013 – present) |
| Main activities and responsibilities | - *Teaching*: Msc/Bachelor courses in *Software Engineering, Networking, Formal Languages, Formal Methods, Software Testing, Use of IT standards in Medical Informatics*<br>- *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/IEEE 11073 (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).<br>- *Thesis supervission*: Master and Bachelor levels<br>- **Double Degree Master for Software Engineering**: Politehnica Bucharest and University of Groningen (http://www.rug.nl/masters/computing-science/programme) – **Initiator and Coordinator UPB** |
| Name and Address of Employer | Department of Engineering in Foreign Language, Politehnica University of Bucharest, Romania |
| Dates | 2009- present |
| Occupation or position held | Visiting Lecturer/Trainer |
| Main activities and responsibilities | - *Online teaching*: in Caribbean Islands from an US Accredited Master from Andrews University, Michigan, US. Topics: *Research Methods and Statistics*<br>- *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, Ilishan Remo State.<br>- *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. |

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| Name and address of employer | - Andrews University, Michigan, US<br>- Babcock University, Nigeria<br>- Valley View University, Ghana,<br>- Rusangu University, Zambia<br>- Adventist African University, Kenya<br>- HL7 Organisation, US |
| Type of business or sector | Computer Science |
| | |
| Dates | 2002-2006 |
| Occupation or position held | Researcher |
| Main activities and responsibilities | 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. |
| Name and address of employer | Department of Mathematics and Computer Science, Technical University of Eindhoven, the Netherlands (http://www.tue.nl/en/university/departments/mathematics-and-computer-science/) |
| Type of business or sector | Research – Mathematics and Computer Science |
| | |
| Dates | 2005 |
| Occupation or position held | Part Time Researcher (the rest of the time in Eindhoven) |
| Main activities and responsibilities | Research in Software Testing for the *ITEA EU Project TT-Medal* (https://itea3.org/project/tt-medal.html) |
| Name and address of employer | *CWI – Dutch National Centre for Mathematics and Computer Science*, Amsterdam, the Netherlands (http://www.cwi.nl/) |
| Type of business or sector | Computer Science |
| | |
| Dates | 1998-2002 |
| Occupation or position held | Assistant in Research |
| Main activities and responsibilities | Researcher in the field of formal testing for completion of PhD within Cotes-de-Resyste STW Project (http://fmt.cs.utwente.nl/CdR/) |
| Name and address of employer | *Employed:* Twente University, the Netherlands (http://www.utwente.nl/)<br>*Working Place:* Department of Mathematics and Computer science, University of Eindhoven, the Netherlands |
| Type of business or sector | Computer Science |
| | |
| Dates | 1997-1998 |
| Occupation or position held | Teaching Assistant |
| Main activities and responsibilities | - *Teaching (laboratory level): Graphics, Computer Vision, Networking, Assembling Language, Hardware CS Components* |

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|---|---|
| Name and address of employer | Department of Computer Science, Politehnica University of Bucharest |
| Type of business or sector | Computer Science |

**Education and training**

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|---|---|
| Dates | 2002-2005 |
| Title of qualification awarded | Second Ph.D |
| Principal subjects/occupational skills covered | Thesis Title: *"Contributions to the Modeling and Verification of Reactive Systems"* under the supervision of Prof. Dr.Ing. Florica Moldoveanu |
| Name and type of organisation providing education and training | Department of Computer Science, Politehnica University of Bucharest, Romania, |
| Level in national or international classification | ISCED 8 |

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|---|---|
| Dates | 1998-2004 |
| Title of qualification awarded | First PhD |
| Principal subjects/occupational skills covered | Thesis Title: *Control and selection techniques for the automated testing of reactive systems* under the supervission of *Prof. Dr. Ir. Loe Feijs* |
| Name and type of organisation | Department of Mathematics and Computer Science, Technical University of Eindhoven, the Netherlands |
| Level in national or international classification | ISCED 8 |

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|---|---|
| Dates | 1996-1997 |
| Title of qualification awarded | Master |
| Principal subjects/occupational skills covered | Profile: *System Science and Computers* with specialization in *Application Programs and Artificial Intelligence* |
| Name and type of organisation providing education and training | Faculty of Automatics and Computer science, Politehnica University of Bucharest, Romania |
| Level in national or international classification | ISCED 7 |

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|---|---|
| Dates | 1991-1996 |
| Title of qualification awarded | Bachelor |
| Principal subjects/occupational skills covered | Profile: *Electrics* with specialization in *Computer Science* |
| Name and type of organisation providing education and training | Faculty of Automatics and Computer science, Politehnica University of Bucharest, Romania |
| Level in national or international classification | ISCED 6 |

**Personal skills and competences**

| Mother tongue(s) | **Romanian** | | | | | | | | | |
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| Other language(s) | **English, Dutch** | | | | | | | | | |
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| Self-assessment | Understanding | | | | Speaking | | | | Writing | |
|---|---|---|---|---|---|---|---|---|---|---|
| *European level (\*)* | Listening | | Reading | | Spoken interaction | | Spoken production | | | |
| **English** | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user | C1 | Proficient user |
| **Dutch** | B1 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user | B1 | Independent user |

(\*) *Common European Framework of Reference for Languages*

**Social skills and competences**

– *Inter cultural skills:* ability to adapt to multicultural environments gained through my long periods spend in other countries (the Netherlands) and visits around the world (Africa, North and Latin America, Europe, etc.)
– *Communication skills* gained through my experience as lecturer/researcher
– *Team work* gained through my work as researcher, lecturer, team leader
– *Leadership* gained through the lead of several research proposals

**Organisational skills and competences**

- *Leadership:* Leader of several research projects successfully completed
- *Team work:* gained through the work as research, lecturer and team member or leader

**Technical skills and competences**

- *Reviewer* for several International Conferences and Journals such as *European Conference in Evolutionary Music and Art*, *IEEE System Conference*, Journal of *Computer Methods and Programs in Biomedicine, Journal of Philosophical Transactions A, etc.*
- *Engineer, Researcher, Lecturer*
- *Part of an International Accreditation team for an university in Nigeria*

**Computer skills and competences**

- *E-learning* - Moodle platform,
- *Skills ranging from programming to design and research in many CS* languages (C, C#, Java, Lisp, CUDA, Assembling, etc.) and domains such as Networking, Distributed Systems, Artificial Intelligence, Software Engineering, Graphics, Assembling, Medical Informatics etc.
- *Interdisciplinary (technical):* Molecular Dynamics and Numerical Methods for Composite Materials
- *Interdisciplinary (social):* Educational Science

**Artistic skills and competences**

Piano as a hobby

**Other skills and competences**

- Working in helping organisation for street children (while I was a student)
- Getting helps for an orphanage in Romania while residing in the Netherlands

**Driving licence**

Yes

Publications

**Additional information**

- *Publications*: see *Article Document*

- *Research Grants: See Article Document*

- *Awards and Recognitions*:
  - Honorary President *HL7 Romania* (http://www.hl7romania.ro/) – organisation that includes key institutions in medical informatics from Romania.
  - *2010 IEEE-SA Emerging Technology Awards (see* http://www.rug.nl/fwn/nieuws/fwnActueel/kortNieuws/kortnieuwstabel/ EmergingTechnologyAward)
  - 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 (http://spinroot.com/spin/success.html).
  - Invited Speaker *Conquest Conference*, Germany, 2009

**Articles**
Senior Researcher Dr. Ir. N. Goga

**0)   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; Periole, 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

**I )  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*, Technishe 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

**II)      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*, Technishe 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, Technishe Universiteit Eindhoven Press, the Netherlands, ISSN 0926-4515, 2001,*

### III. Chapters in Books

**Ca** (chapter) **N. Goga**, A. Rzepiela, M. N. Melo, A.H. de Vries, A. Hadar, A.J. Markvoort, S. Nedea 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


### IV.1 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:000343196300005


 ***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; Periole, 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. Bezverhnii 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.

### IV.2) Articles in International Conferences

**Vis (ISI Proceedings, Indexed)** Pestritu, 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; Pestritu, 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, F*undamental 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
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**N. Goga** co-author, *IEEE Standard 11073-10420$^{TM}$ -  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- 10472$^{TM}$-  Standard for Health informatics – Personal health device communication – Part 10472: Device specialization – Medication monitor*,  IEEE Press, US, ISBN 978-0-7381-6212-6, 2010.

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

**V) Patente**

## VI. 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, NWO[1], *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 Telehaelth 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/