

Dr. Dr. Gordana Dodig-Crnkovic, Professor

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Research

[My research interests](#) are in Science of Information, Natural Computing, Morphological Computing, Cognitive Computing, Philosophy of Science, Computing and Philosophy (Info-computationalism) and Ethics (Ethics of technology, AI ethics, Ethics of computing and Information Ethics).

[Publications](#)

[Presentations](#)

[Books](#)

[Special Issues](#)

Appointments

Professor Chalmers (2018-current) & Professor MDH (2013-current)

Dean for PhD Studies at the Department of Applied IT, Chalmers University of Technology and Gothenburg University. (2014-2017)

2008– 2013 Associate Professor MDH; 2014-2018 Associate Professor Chalmers; 2002–2008 Senior Lecturer in Computer Science, Mälardalen University, MdH, Sweden; 2000–2002 Lecturer in Computer Science, MdH;

1990–2000 Criticality Safety Analyst, Modelling/Numerical Analyses, ABB Atom, Sweden; 1979–1990 Research Assistant, [Theoretical Physics, Rudjer Boskovic Institute Zagreb](#), Croatia

Education record

PhD (Phil. Dr.) Computer Science, Mälardalen University Sweden, 2006. Thesis title: Investigations into Information Semantics and Ethics of Computing. Advisors: Prof. Björn Lisper, Jan Gustafsson (Computer Science) and Lars-Göran Johansson (Philosophy, Uppsala)

PhD (Phil. Dr.) Theoretical Physics, Department of Physics, Faculty of Science, University of Zagreb, 1988. Thesis title: On Alpha Decay. Advisor: [Academician Prof. Vladimir Paar](#).

Licentiate in Theoretical Physics, Department of Physics, Faculty of Science, University of Zagreb, 1983. Thesis: Alpha-particle Formation Mechanism and Alpha Decay. Advisor: Academician Prof. Vladimir Paar; MSc in Physics, Department of Physics, Faculty of Science, University of Zagreb, 1979. Thesis: Cluster-Vibration Model;

MSc in Computer Science, The Department of Computer Science and Engineering, Mälardalen University, 2002. Thesis: Computer Science in a Theory of Science Discourse.

Doctoral students

Current: Tobias Holstein, Darmstadt and MDH; Markus Wallmyr, MDH.

Former: Josef Wideström, Chalmers; Daniel Kade, MDH, Alberto Hernandez-Espinoza, UNAM, Rickard von Haugwitz, Chalmers.

As scientific theory and research methodology are the areas of my expertise, during the years, I have been consulted by many PhD students in questions of method and scientific approach, among others Rikard Land, Christina Vallin, Magnus Larsson, Stig Larsson, Carina Andersson, and Shahina Begum.

Teaching

2007 Teaching Excellence Degree "Excellent lärare" at MDH

Funding

[My current research](#) is funded by the Swedish Research Council, VR.

My research project PICO - Philosophy of Information and Computing at MDH has been funded by a combination of the initial KKS grant and later on faculty funding.

NSHU grant for [PIFF](#) project connecting diploma work with industry and research.

Research organization leadership

Board member of the International [Society for the Study of Information](#)

[President of the International Society for the Study of Information](#) (2015-2017)

Immediate Past President of the International Society for the Study of Information (2017-2019)

Member of the Board of Advisors, Vice-President for Research, International Society for Information Studies (IS4IS)

Member of the Inbiosca Scientific Advisory Board, Project launched 2011 with the support of the European Commission's 7th Framework Programme

Member of the International Institute of Informatics and Systemics

Steering Committee member of European Computing and Philosophy Organization, 2005-2010, European branch of The International Association for Computing and Philosophy

Member of the Scientific Advisory Committee of the international Science of Information Institute

Commissions of trust

Chair of the Minerva Informatics Europe Equality Award Committee 2020

<https://www.informatics-europe.org/awards/minerva-informatics-equality-award.html>

[External member of The Karel Capek Center for Values](#) in Science and Technology, www.cevast.org, a research multidisciplinary center established by the Czech Academy of Science and the Charles University, Prague.

Member of [AI Ethics Committee of the Chalmers AI Research Centre](#)

Member of the Scientific Committee of the International Science of Information Institute <http://www.scienceofinformationinstitute.com/about.html>

[Steering Committee member of European Computing and Philosophy Organization](#), European branch of The International Association for Computing and Philosophy <http://www.ia-cap.org/administration.php>

Member of the Editorial Board of the [Springer SAPERE Studies in Applied Philosophy, Epistemology and Rational Ethics](#)

Member of the Editorial Board of the [World Scientific Series In Information Studies](#)

Member of the Editorial Board of the journal [Information](#)

Member of the Editorial Board of the journal [Entropy](#)

Member of the Editorial Board of the journal [Philosophies](#)

Member of the Editorial Board of the journal [Proceedings](#)

Member of the Editorial Board of the [Emerging Science Journal](#)

General Chair and organiser of International Computing and Philosophy Conference [E-CAP 2005 @MDH \(2-4 June 2005\)](#)

PC member for European Computing and Philosophy (starting from 2004)

Member of the Scientific Committee of the international [Model-based Reasoning in Science and Engineering](#) conference, MBR 04

PC member for SAIS-SSL5 2005, The Swedish Artificial Intelligence and Learning System www.sais.se/sais2005

PC member of [ETHICOMP 2005](#) (www.ccsr.cse.dmu.ac.uk/journal)

Track chair for the Computer-based Learning and Teaching Strategies and Resources & The Impact of Distance Learning on the Teaching of Philosophy and Computing of [E-CAP 2007](#)

Track chair for the Biocomputing, Evolutionary and Complex Systems of [E-CAP 2009](#)

PC member of [NA-CAP 2009](#) (North American Conference on Computing and Philosophy)

Member of the Scientific Committee of Model Based Reasoning conference in Pavia 2004

Member of the Program Committee of [KGCM 2008, 2009](#) (Knowledge Generation, Communication and Management), Orlando, Florida, USA

Member of the Program Committee of The First International Multi-Conference on Engineering and Technological Innovation ([IMETI 2008, 2009](#))

Member of MDH Research Ethics Committee (2002-2014)

Networks in academia

[AcademiaNet](#) member

[Foundations of Information Science](#)

[BITrum](#) Scientific Committee member

[SWECOG](#) Swedish Cognitive Science Society

[EUCog](#) - EUCognition - European Society for Cognitive Systems

[PI - Philosophy of Computing and Informatics Network](#), Co-ordinator of Swedish national collaboration supported by KKS foundation. Network members: Ulla Ahonen-Jonnarth and Jan Odelstad from Gävle University; Björn Lisper, Peter Funk, Jan Gustafsson and Gordana Dodig-Crnkovic from MDH; Torbjörn Lager, Göteborg University and Joakim Nivre, Växjö University.

[PIFF-network](#): Gordana Dodig-Crnkovic, project leader, and Frank Lüders, Mälardalen University; Robert Feldt, Blekinge Institute of Technology and Martin Höst, Lund University.

Collaboration with Keith Miller and Peter Boltuc, University of Illinois at Springfield; Susan Stuart, Glasgow University, Vincent Müller, Princeton and Thessaloniki, Luciano Floridi, University of Oxford; Chaim Zins, University of Haifa. Lars-Göran Johansson, Department of Philosophy, Uppsala University. Robert Feldt, BTH, Martin Höst, Lund University.

Record of previous research

[2016 – current] Morphological Computing MORCOM@COGS Swedish Research council project

[2000 – current] Research in Philosophy of Information, Computing and Philosophy, Philosophy of Computer Science and Computer Ethics. Collaboration and contacts with: Luciano Floridi, University of Oxford; Lorenzo Magnani, University of Pavia; Susan Stuart, Glasgow University, Pedro Marijuán, University of Zaragoza, Gang Liu, Deputy Director of Philosophy of Sci. and Tech. Div., Inst. of Philosophy, Chinese Academy of Soc. Sci., Lars-Göran Johansson, Department of Philosophy, Uppsala University, Göran Collste, Center for Applied Ethics, Linköping University (LiU), Wolfgang Hofkirchner, ICT&S Center for Advanced Studies and Research, University of Salzburg and Vienna University of Technology Vienna, Austria .

[1990-2000] Safety analyses and modelling of complex fissile systems, that included advanced techniques and numerical methods. This also comprised writing of Criticality Safety Handbook for ABB Atom, which is in use even today. Practical industrial application of theoretical modelling. Contact: Monica Eiborn, former head of the Department for Nuclear Non-proliferation, Swedish Nuclear Power Inspectorate, SKI who headed Safety and Security lab at ABB Atom during the time I was working for the company.

[1979–1989] Research in Theoretical Physics at the IRB Institute in Zagreb and Manne Siegbahn Institute in Stockholm. The cutting edge theoretical work in physics, research methods and practices, working on quantum mechanical shell model theory of alpha decay process. This will greatly influence the outlook and later research on computing theory and philosophy. Contact: Academician Prof. Vladimir Paar (Zagreb University), Frantisek Janouch, Manne Siegbahn Institute (former), Roberto Liotta (Royal Institute of Technology, KTH).

Research group membership

Member of MRTC (Mälardalen Research and Technology Centre)

<http://www.mrtc.mdh.se/index.php?choice=staff&id=0070>

Member of Intelligent Systems group

http://www.mdh.se/ide/iss/index.php?choice=research_groups&id=0010

[Applied Robotics in Gothenburg research group](#)

<https://cse.gu.se/english/about/interactiondesign/research/applied-robotics-in-gothenburg>