Curriculum Vitae Arnoud Visser

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Professional Appointments

- 2015-present, Programme Director, Bachelor *Kunstmatige Intelligentie*, University of Amsterdam.
- 2013-present, Senior Lecturer, Faculty of Science, University of Amsterdam.
- 2009-2013, Assistant Professor, Faculty of Science, University of Amsterdam.
- 1991-2009, Researcher, Faculty of Science, University of Amsterdam.
- 1987-1991, Research assistant, Faculty of Science, Leiden University.

Education

- Senior University Teaching Qualification (2016), VU Amsterdam.
- Basic University Teaching Qualification (2010), University of Amsterdam.
- PhD in Computer Science (2007), University of Amsterdam, Faculty of Science.
  -- "Measurement-Driven Simulation of Complex Engineering Systems"
- Master in Experimental Physics (1987), Leiden University, Faculty of Science.
  -- "Photochemical hole-burning in organic solids at low temperature".

Professional Educational Activities

- Member Advisory Committee LIACS Education (2020-2024)
- Ad-Interim Chairman Curriculum Commission Bachelor Artificial Intelligence (2016).
- Member Verkenningscommissie Onderwijs 3 (2015)
- Chairman Verkenningscommissie Onderwijs 2 - werkgroep Computational Life Sciences (2014).
- Member Graduate Admission Board Msc-AI (2008-2009).
- Member Reflection Committee on the future of Computer Science education in NL (2008).
- Member Master Team Artificial Intelligence (2006-2009, 2015-2019).
- Program Committee Artificial Intelligence (2005-2014).
- Exam Committee 'Informatiekunde' (2000-2002).

PhD Theses, committee

- Zhenglong Sun: "An Energy Efficient Gait for Humanoid Robots Walking on Even and Uneven Terrains", PhD-thesis, Universiteit Maastricht, 27 March, 2019
- Eelke van Foeken, "Utility and Cost evaluation for Shared Awareness", PhD-thesis, University of Amsterdam, 25 October 2017.
- Berend Weel, "Towards Embodied Evolution of Robot Organisms", PhD-thesis, VU Amsterdam, 23 June 2016.
- Willem van Willigen, "Look Ma, No Hands!; Aspects of Autonomous Vehicle Control", PhD-thesis, VU Amsterdam, 28 May 2014.
- Evert Haasdijk, "Never Too Old to Learn; On-line Evolution of Controllers in Swarm- and Modular Robotics", PhD-thesis, VU Amsterdam, 1 November 2012.

Master and Bachelor Theses, supervisor

- Arnoud Visser has supervised 27 master theses and 36 bachelor theses (several cum laude).

Research Interest

At the University of Amsterdam since 1991, Arnoud Visser participated in several national and international research projects for the Computer Science department.

Inside the projects, he worked on topics in the field of robotics, distributed sensing and simulation:

- robot calibration
- robot control architecture
- action planning
- exception handling
- object recognition
- virtual sensors
- traffic simulation
- communication simulation
- localization and mapping
- exploration

The focus of the research would be to investigate the effect of situated interaction of cooperative agents. An illustrative example is the planning of an exploration of a devastated area with a team of robots. To tackle the multi-agent decision problem in realistic settings, approximation models and algorithms have to be developed to keep the search for the solution tractable. The representation of the world and the observations of changes in the world play a key role in finding a robust solution. The methodology to share and fuse the observations coming from multiple sources over time is the challenge to be taken.

Professional Research Activities (e.g.)

- Principal investigator in Meaningful Control of Autonomous Systems cooperation.
- Member of the Executive Committee of the international RoboCup Federation (2012-2018).
- Chairman of the Dutch Regional RoboCup Committee (2009-current).
- Program manager Decis Lab – cooperation with Thales Research, Delft (2002-2004).
- Program manager 'Evaluation study of the reliability of the technology of road pricing in the Netherlands', Technical Committee, Dutch Ministry of Transport, The Hague (1995-2001).
- Visiting scientist, European Space Agency, ESTEC, Noordwijk, 1993.

Publications

- Arnoud Visser has published 15 journal articles, 20 book chapters, 65 conference papers, 66 technical reports. These publications can be found on his personal website. The open access publications are directly available via the National Academic Research archive. The impact of the publications can be estimated from Google Scholar.

Program Committees, reviewing (e.g.)

- See for other aspects the extensive list of my activities my online C.V.