

Dagmar Monett

PROF. DR. COMPUTER SCIENCE · ARTIFICIAL INTELLIGENCE, SOFTWARE ENGINEERING

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Education

Ph.D. in Computer Science (Dr. rer nat. Informatik)

Berlin, Germany

HUMBOLDT UNIVERSITY OF BERLIN

2005

- Agent-Based Configuration of (Metaheuristic) Algorithms (In English)

M.Sc. in Computer Science

Havana, Cuba

HAVANA UNIVERSITY

1998

- Implementation of Evolutionary Techniques and Design of Intelligent Agents for the Mathematical Modelling of Chemical Processes (In Spanish)

B.Sc. in Mathematics Cybernetics

Havana, Cuba

HAVANA UNIVERSITY

1992

- Expert System for the Parameter Estimation in Differential Equations (In Spanish)

Research Fields and Topics

Artificial Intelligence Machine learning, knowledge-based systems, distributed AI, evolutionary computation

Digital ethics AI ethics, responsible AI, digital education ethics

Optimisation Mathematical optimisation, metaheuristics, soft computing

Computer Science Education Curriculum design and development, E-Learning, robotics in education

Experience

Professor of Computer Science

Berlin, Germany

BERLIN SCHOOL OF ECONOMICS AND LAW (HWR BERLIN)

Since Aug. 2010

- Head of Computer Science Division at the Dept. of Cooperative Studies Business•Technology (04/2022-)
- Co-Founding Member of the Institute for Data-Driven Digital Transformation, d-cube (06/2020-)
- Academic Co-Director of the Master's study program Digital Transformation at the Berlin Professional School (12/2020-)

Research and teaching assistant

Berlin, Germany

MATHEMATICS INSTITUTE, HUMBOLDT UNIVERSITY OF BERLIN

Jan. 2006 - Mar. 2010

- Research project: Analysis and treatment of differential-algebraic equations using Algorithmic Differentiation (Jun. 2008 - Mar. 2010)
- Courses: Mathematics for Computer Scientists III, Scientific Computing Lab I, Mathematical Analysis Pract.
- Postdoc position: Differential-algebraic equations, Algorithmic Differentiation (Jan. 2006 - Aug. 2006)

Research scientist

Berlin, Germany

DFG RESEARCH CENTRE MATHEON MATHEMATICS FOR KEY TECHNOLOGIES

Sep. 2006 - May 2008

- Research project: D7: Numerical simulation of integrated circuits for future chip generations

Adjunct lecturer

Berlin, Germany

COMPUTER SCIENCE DEPT., BERUFSAKADEMIE BERLIN

Sep. 2003 - Jul. 2010

- Courses: Artificial Intelligence, Knowledge-based systems, Multidisciplinary Lab, Current topics in Computer Science

Research assistant

Berlin, Germany

ARTIFICIAL INTELLIGENCE LAB., COMPUTER SCIENCE INSTITUTE, HUMBOLDT UNIVERSITY OF BERLIN

Apr. 2002 - Dec. 2005

- Research topics: Artificial Intelligence, multi-agent systems, knowledge-based systems, Socionics (Sociology + Computer Science)

Teaching assistant

Caracas, Venezuela

COMPUTER SCIENCE DEPT., SIMÓN BOLÍVAR UNIVERSITY

Sep. 1996 - Jan. 1997

- Course: Programming in FORTRAN

Research scientist

Havana, Cuba

COMPUTER SCIENCE DEPT., CENTRE OF BIOMATERIALS

Sep. 1992 - Sep. 1999

- Research topics: Parameter estimation, inverse problems, mathematical modelling of chemical processes

Honors & Awards

2014	Berlin Higher Education Teaching Certification , Berlin Center for Higher Education Instruction (BZHL)	Berlin, Germany
10/2003	Three-month Scholarship , Berlin Program to Promote Equal Opportunities of Women in Research and Teaching	Berlin, Germany
02/2003	AgentLink grant , 5th European Agent Systems Spring School	Barcelona, Spain
10/2002	One-year PhD Scholarship , Rosa Luxemburg Foundation	Berlin, Germany
04/2000	Two-year PhD Sandwich-Scholarship , DAAD, German Academic Exchange Service	Berlin, Germany
07/1996	Travel grant , TWAS, Italy for Research semester at the Simón Bolívar University	Caracas, Venezuela
06/1996	Fellowship , AECl, Spain, to attend the 2nd Iberoamerican Summer School in Computer Science, Iberoamerican Net of Software Technology (RITOS)	Santa Cruz, Bolivia
1995	Annual Prize , Best Scientific Result on the Application of Computer Science (with coauthors), Havana University	Havana, Cuba
1994	Annual Prize and National Prize , Best Scientific Research (with coauthors), Ministry of High Education and Academy of Sciences, respectively	Havana, Cuba
1993	Distinguished Researcher Award , Havana University	Havana, Cuba

Scientific Results (selection)

(See a detailed list at <https://monettdiaz.com/publications.html>)

- Lemke, C., & **Monett, D.** (2024). AI-based Service Systems: Digital-ethical issues and their impact on value co-creation. In A. Scupola, J. Sundbo, A. H. Henten, & L. Fuglsang (eds.), *Handbook of Services and Artificial Intelligence*. Edward Elgar Publishing Ltd.
- Monett, D.**, Haase, L., & Zimmermann, A. (2023). Bridging Generations of Learners and Enhancing the Undergraduate Experience: Lessons learned from a Day of Computer Science. In *Proceedings of the 16th annual International Conference of Education, Research and Innovation*, ICERI 2023, IATED Academy, November 13th-15th, 2023, Seville, Spain (DOI: 10.21125/iceri.2023).
- Fenton, A., & **Monett, D.** (2023). AI and Ethics: moving towards a future where AI benefits – rather than destroys – humanity. In *Proceedings of the 5th International Conference on Communication and Business*, ICCB 2023, LSPR Institute of Communications and Business, September 28th-29th, 2023, Bali, Indonesia.
- Lemke, C., **Monett, D.**, & Mikoleit, M. (2023). Digital Ethics in Data-Driven Organizations and AI Ethics as Application Example. In Barton, T., Müller, C. (eds.), *Apply Data Science: Introduction, Applications and Projects* (pp. 31-48), Springer Vieweg, Wiesbaden (DOI: 10.1007/978-3-658-38798-3_3).
- Monett, D.**, Lemke, D., Anandarajah, L., & Brandherm, T. (2022). Narratives that speak AI lingua? AI vocabulary in listed companies' annual reports. In *Proceedings of the 4th European Conference on the Impact of Artificial Intelligence and Robotics*, ECIAIR 2022, Vol. 4, No. 1, pp. 54-63, December 1st-2nd, 2022, Academic Conferences International Ltd., UK (DOI: 10.34190/eciair.4.1.929).
- Monett, D.**, Hoge, L., Haase, L., Schwarz, L., Normann, M., & Scheibe, L. (2021). The Intelligence Corpus, an Annotated Corpus of Definitions of Intelligence: Annotation, Guidelines, and Student Research Projects. In L. Gómez Chova, A. López Martínez, and I. Candel Torres (eds.), *Proceedings of the 14th annual International Conference of Education, Research and Innovation*, ICERI 2021, pp. 3626-3634, IATED Academy, November 8th-9th, 2021 (DOI: 10.21125/iceri.2021.0871).
- Monett, D.**, Lemke, C., Jefferies, A., Faustmann, G., & Brandherm, T. (2021). The Changing Landscape of Digital Technologies for Learning. In C. Busch, M. Steinicke, R. Frieß, and T. Wendler (eds.), *Proceedings of the 20th European Conference on e-Learning*, ECEL 2021, pp. 296-304, Academic Conferences International Ltd., Reading, UK, October 28th-29th, 2021 (DOI: 10.34190/EEL.21.067).
- Monett, D.**, Lampe, N., Ehrlicher-Schmidt, M., & Bewer, N. (2020). Intelligence Catalog-guided Tracking of the Evolution of (machine) Intelligence: Preliminary results. In Basile, P., Basile, V., Cabrio, E., and Croce, D. (eds.), *Proceedings of the 4th Workshop on Natural Language for Artificial Intelligence*, NL4AI 2020, 2735: 118-129, CEUR-WS, co-located with the 19th International Conference of the Italian Association for Artificial Intelligence, AlxIA 2020, November 25th-27th, 2020 (<http://ceur-ws.org/Vol-2735/paper37.pdf>).
- Monett, D.**, Lewis, C. W. P., & Thórisson, K. R. (eds.) (2020). Special Issue "On Defining Artificial Intelligence"–Commentaries and Author's Response. *Journal of Artificial General Intelligence*, 11(2): 1-100 (DOI: 10.2478/jagi-2020-0003).
- Monett, D.** & Lewis, C. W. P. (2018). Getting clarity by defining Artificial Intelligence - A Survey. In Müller, Vincent C. (Ed.), *Philosophy and Theory of Artificial Intelligence 2017*. SAPERE 44: 212-214. Berlin: Springer (DOI: 10.1007/978-3-319-96448-5_21).

Activities in the Research System

2020-	Member of the Advisory Board , different national and international research projects	Germany, Europe
2017-2020	Co-Founder , Artificial General Intelligence Sentinel Initiative	AGISI.org
2014-	Keynote speaker, Panellist , different national and international events, conferences, etc.	International
2011-	Member , different national and international associations and committees (ACM, hlb Berlin, etc.)	International
2002-	Editorial and reviewer activities , scientific conferences, journals, collections, doctorate networks, etc.	International