PERSONAL DETAILS Prof. Dr. Petra Ahrweiler

TISSS Lab / Institute of Sociology
Johannes Gutenberg University Mainz
Jakob-Welder-Weg 20
55128 Mainz
Germany
Phone: +49 (0)6131-39-29132
Email: petra.ahrweiler@uni-mainz.de

https://technologyandinnovation.sociology.uni-mainz.de/prof-dr-petra-ahrweiler/
LinkedIn https://www.linkedin.com/in/petra-ahrweiler-95b9423/
Orcid-ID: 0009-0008-8773-3181

EMPLOYMENT

2013 – **Full Professor Sociology of Technology and Innovation / Social Simulation (JGU)**
Johannes Gutenberg University Mainz, Germany (JGU)

2013 – 2017 **Director and CEO of EA**
EA European Academy of Technology and Innovation Assessment, Germany

2008 –2015 **Director of IRU**
Innovation Research Unit IRU, University College Dublin, Ireland

2007 –2015 **Full Professor of Technology and Innovation Management at UCD**
Michael Smurfit Graduate School of Business, University College Dublin, Ireland

2008 –2013 **Visiting Professor and Member of Faculty at MIT**
MIT Massachusetts Institute of Technology, Engineering Systems Division (ESD), Cambridge/USA

2000 - 2007 **Heisenberg Fellow of Deutsche Forschungsgemeinschaft DFG**

EDUCATION

2000 **Habilitation Degree, Venia Legendi „General Sociology“**
University of Bielefeld, Germany; Habilitation Fellow of DFG

1994 **PhD (Dr. phil.)**
Free University of Berlin, Germany; PhD Fellow of Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation)

1990 **Master Degree (Dipl.-Soz.)**
University of Hamburg, Germany; Fellow of Studienstiftung des deutschen Volkes

PRINCIPAL INVESTIGATOR RESEARCH PROJECTS

2021 – 2024 **AI FORA:** Artificial Intelligence for Assessment (German Volkswagen Foundation); https://www.ai-fora.de

2021 – 2022 **SENSORITHM**: Cluster4Future Initiative (German Ministry of Research BMBF)

2019 – 2021 **AI NAVI**: Artificial Intelligence Navigation in complex social Landscapes (German Volkswagen Foundation)

2017 – 2020 EIS: Enabling Innovation by Simulation – Simulating Innovation Capacity of Public Research Organisations' Institutes (German Ministry of Research BMBF)

2013 – 2018 PEERE: New Frontiers of Peer Review (COST Action, European Union EU)

2013 – 2017 KNOWeSCAPE: Analyzing the Dynamics of Information and Knowledge Landscapes (COST Action, European Union EU)

2013 – 2016 ProGReSS: PROmoting Global Responsible research & Social and Scientific innovation (FP7, Science in Society, European Union EU)

2013 – 2016 GREAT: Governance for Responsible Innovation (FP7, Science in Society, European Union EU)

2011 – 2016 IPSE: Innovation Policy Simulation for the Smart Economy (Irish Government, EU Structural Fonds)

2012 – 2015 EGovPoliNET: Building a global, multidiciplinary digital Governance and Policy Modelling Research and Practice Community (FP7, ICT, European Union EU)

2010 – 2015 ManETEI: Managing Emergent Technologies for Economic Impact (FP7, Marie Curie Action, European Union EU)

2010 – 2014 IOT: The Open Innovation Project (INTERREG NEW, IVB, European Union EU)

2010 – 2011 Using Network Analysis to monitor and track Effects resulting from Changes in Policy Intervention (DG Information Society and Media, European Commission, Smart 2010/0025, European Union EU)

2006 – 2010 NEMO: Network Models, Governance, and R&D Collaboration Networks (FP6, NEST, European Union EU)

1998 – 2001 SEIN: Simulating Self-Organizing Innovation Networks (FP4, TSER, European Union EU)

1998 – 2001 SOEIS: The Self-Organization of the European Information Society (FP4, TSER, European Union EU)

AWARDS, HONOURS

2020 -2022 President of the European Social Simulation Association ESSA (http://www.essa.eu.org).

2015 Member of German Academy for Technical Sciences acatech (https://www.acatech.de/person/petra-ahrweiler-15547/)

2010 Member of AcademiaNet, the network of excellent female scientists in Germany (https://www.academia-net.org/profile/petra-ahrweiler/80199)

2001 Award 2001 of "Centrum for Mediation in Germany" for Habilitation Thesis

1993 "Kurt Hartwig Siemers Prize" of the Hamburg Science Foundation for PhD Thesis

PUBLICATIONS

h-index: 27; i10-index: 40
(Google Scholar citation records: https://scholar.google.de/citations?hl=de&pli=1&user=Th5reZUAAAAJ)

Peer-Reviewed International Journals and Proceedings

- **Ahrweiler, P.,** Gilbert, N., Bicket, M., Sabater Coll, A., Luque Capellas, B., Wurster, D., Siqueiros, J. and E. Späth (2023). Gamification and Simulation for Innovation. In: Elsenbroich, C. (ed) Advances in Social Simulation, forthcoming. Springer Proceedings in Complexity. Springer, Cham.
- Herget, F., Kleppmann, B., **Ahrweiler, P.,** Gruca, J., Neumann, M. (2022). How Perceived Complexity Impacts on Comfort Zones in Social Decision Contexts - Combining Gamification and Simulation for Assessment. In: Czupryna, M., Kamiński, B. (eds) Advances in Social Simulation, 203-215. Springer Proceedings in Complexity. Springer, Cham. https://doi.org/10.1007/978-3-030-92843-8_16
- Squazzoni, F. **Ahrweiler P**., Barros, T., Bianchi F., Birukou A., Blom HJJ, Bravo G., Cowley S. Dignum V., Dondio P., Grimaldo F., Haire L., Hoyt J., Hurst P., Lammey R., MacCallum C., Marušić A., Mehmani B., Murray H., Nicholas D., Pedrazzi G., Puebla I., Rodgers P., Ross-Hellauer T., Seeber M., Shankar K., Van Rossum J., Willis M. (2020). Unlock ways to share peer review data. Nature, 578(7796):512-514. [doi:10.1038/d41586-020-00500-y]
- Squazzoni, F., Polhill, J. G., Edmonds, B., **Ahrweiler, P.,** Antosz, P., Scholz, G., Chappin, É., Borit, M., Verhagen, H., Giardini, F. and Gilbert, N. (2020): Computational Models That Matter During a Global Pandemic Outbreak: A Call to Action. Journal of Artificial Societies and Social Simulation 23 (2) 10 <http://jasss.soc.surrey.ac.uk/23/2/10.html>. doi: 10.18564/jasss.4298
- **Ahrweiler, P.,** Frank, D. und Gilbert, N. (2019): Co-Designing Social Simulation Models for Policy Advice: Lessons Learned From the INFSO-SKIN Study. In 2019 Spring Simulation Conference (SpringSim). Tucson, AZ, USA: IEEE. https://ieeexplore.ieee.org/document/8732901
- Gilbert, N., **Ahrweiler, P**., Barbrook-Johnson, P., Narasimhan, K. und Wilkinson, H. (2018): Computational Modelling of Public Policy: Reflections on Practice, Journal of Artificial Societies and Social Simulation (JASSS) Vol. 21 (1) 14. DOI: 10.18564/jasss.3669
- Frank, D. und **Ahrweiler, P**. (2018): The Future of Artificial Intelligence: Policy Research Perspectives. In Science Policy Paper 3 (2018): Whither Artificial Intelligence? Debating the Policy Challenges of the Upcoming Transformation. http://publikationen.ub.uni-frankfurt.de/frontdoor/index/index/docId/51031
- **Ahrweiler, P**. (2017): Agent-based simulation for science, technology, and innovation policy. Scientometrics Vol. 110 (1): 391-415. DOI: 10.1007/s11192-016-2105-0.
- Li, L., **Ahrweiler, P.** und Hang, X. (2017): 新熊彼特主义视角下基于主体的计算经济学研究 . Agent-based Computational Economics from the Neo-Schumpeterian Perspective. Economic Perspectives (7): 137-147. (in Chinesisch)
- **Ahrweiler, P**., Schilperoord, M., Pyka, A. und N. Gilbert (2015): Modelling Research Policy - Ex-Ante Evaluation of complex Policy Instruments. Journal of Artificial Societies and Social Simulation (JASSS) Vol. 18 (4) 5. DOI: 10.18564/jasss.2927.
- Leydesdorff, L. und **P. Ahrweiler** (2014): In Search of a Network Theory of Innovations - Relations, Positions, and Perspectives. Journal of the American Society for Information Science and Technology (JASIST) 65(11), 2359–2374.
- **Ahrweiler, P.** und M. Keane (2013): Innovation Networks. Mind & Society 12: 73–90, DOI 10.1007/s11299-013-0123-7.
- **Ahrweiler, P.** und R. Viale (2013): Introduction to cultural and cognitive Dimensions of Innovation. Mind & Society 12:5–10, DOI 10.1007/s11299-013-0128-2.
- Pyka, A., **Ahrweiler P.** und N. Gilbert (2012): ПРОЦЕССЫ ПОРОЖДЕНИЯ И ДИФФУЗИИ ЗНАНИЯ В ИННОВАЦИОННЫХ СЕТЯХ: АГЕНТНАЯ СИМУЛЯЦИОННАЯ МОДЕЛЬ (Knowledge Generation and Diffusion Processes in Innovation Networks). The Journal of Sociology and Social Anthropology, Vol. XV (5), 327–348.
- **Ahrweiler, P.** (2012): Review of Complex Adaptive Innovation Systems. Relatedness and Transversality in the Evolving Region (Regions and Cities); by P. Cooke, Routledge: London 2012. Journal of Artificial Societies and Social Simulation (JASSS), 15 (4).
- Edmonds, B., Gilbert, N., **Ahrweiler, P.** und A. Scharnhorst (2011): Simulating the Social Processes of Science. Journal of Artificial Societies and Social Simulation (JASSS), 14 (4), 14.
- **Ahrweiler, P.** (2011): Modelling Theory Communities in Science. Journal of Artificial Societies and Social Simulation (JASSS), 14 (4), 8.
- **Ahrweiler, P.,** Pyka, A. und N. Gilbert (2011): A New Model for University-Industry Links in Knowledge-Based Economies. Journal of Product Innovation Management (JPIM), 28: 218–235.
- **Ahrweiler, P.,** Gilbert, N. und A. Pyka (2011): Agency and Structure. A social Simulation of knowledge-intensive Industries. Computational & Mathematical Organization Theory (CMOT) 17 (1): 59–76.
- **Ahrweiler, P.** (2009): Review of Complexity Perspectives in Innovation and Social Change (Methods Series; by Lane D., Pumain D., van der Leeuw S. Ernst, West G. (Hg.), Springer: Berlin, 2009). Journal of Artificial Societies and Social Simulation (JASSS), 12(4), 19.

- Pyka, A. und **P. Ahrweiler** (2008): Innovation Networks – An Introduction. International Journal of Foresight and Innovation Policy 4 (3/4): 1–8.
- Gilbert, N., **Ahrweiler, P.** und A. Pyka (2007): Learning in Innovation Networks - Some Simulation Experiments. Physica A: Statistical Mechanics and Its Applications, 378 (1): 667–693.
- Pyka, A., Gilbert, N. und **P. Ahrweiler** (2007): Simulating Knowledge Generation and Distribution Processes in Innovation Collaborations and Networks. Cybernetics and Systems 38 (7): 667–693.
- **Ahrweiler, P.,** Gilbert, N. und A. Pyka (2006): Institutions Matter but... Organisational Alignment in Knowledge-Based Industries. Science, Technology & Innovation Studies 2 (1): 39–58.
- **Ahrweiler, P.** und N. Gilbert (2005): Caffe Nero - the Evaluation of Social Simulation. Journal of Artificial Societies and Social Simulation (JASSS) 8 (4), 14.
- Pyka, A. und **P. Ahrweiler** (2004): Applied Evolutionary Economics and Social Simulation – An Introduction. Journal of Artificial Societies and Social Simulation, 7 (2), 6.
- **Ahrweiler, P.** (2002): Jon Sunbo: The strategic Management of Innovation – A Review. Journal of Evolutionary Economics 12: 577–581.
- Gilbert, N., Pyka, A. and **P. Ahrweiler** (2001): Innovation Networks – A Simulation Approach. Journal of Artificial Societies and Social Simulation (JASSS) 4 (3), 8.
- **Ahrweiler, P.** (1999): David Byrne: Complexity Theory and the Social Sciences – A Review'. Emergence. A Journal of Complexity Issues in Organizations and Management, Special Issue: 101–103

Monographies

- Ahrweiler, P. (2023, forthcoming): *Angels and other Cows.* Education Novel accompanying the AI FORA research project, STEAM Series, Springer Nature.
- Ahrweiler, P. (2001): *Informationstechnik und Kommunikationsmanagement. Netzwerksimulation für die interdisziplinäre Wissenschafts- und Technikforschung*. Campus: Frankfurt/New York.
- Ahrweiler, P. (1995): *Künstliche Intelligenz-Forschung in Deutschland. Die Etablierung eines Hochtechnologie-Fachs*. Waxmann: Münster/New York.

Editions

- **Ahrweiler, P**. (ed., 2024 forthcoming): *Artificial Intelligence and Public Social Goods Eligibility Assessment - Achieving Social Justice Through Technology***.** Springer Nature**.** Berlin, Heidelberg, New York.
- **Ahrweiler, P.,** Neumann, M. (eds. 2021). Advances in Social Simulation. Proceedings of the 15th Social Simulation Conference: 23–27 September 2019. Springer, Springer: Berlin, Heidelberg, New York.
- **Ahrweiler, P.,** Gilbert, N. and A. Pyka (eds, 2016): *Joining Complexity Science and Social Simulation for Innovation Policy. Agent-based Modelling using the SKIN Platform.* Cambridge Scholars Publishing, UK.
- Gilbert, N., **Ahrweiler, P.** and A. Pyka (eds.) (2014): *Simulating Knowledge Dynamics in Innovation Networks,* Springer: Heidelberg/New York.
- **Ahrweiler, P.** and R. Viale (eds.) (2013): Cultural and Cognitive Dimensions of Innovation, Special Issue, Mind & Society, 12.
- **Ahrweiler, P**. (ed.) (2010): *Innovation in Complex Social Systems.* Routledge: London.
- **Ahrweiler, P.** and A. Pyka (eds.) (2008): Innovation Networks. International Journal of Foresight and Innovation Policy 4, Special Issue 3/4.
- Thomass, B. and **P. Ahrweiler** (eds.) (2005): *Internationale partizipatorische Kommunikationspolitik – Strukturen und Visionen*. LIT: Münster/New York.
- Pyka, A. and P. Ahrweiler (eds.) (2004): Applied Evolutionary Economics and Social Simulation. Journal of Artificial Societies and Social Simulation 7. Special Issue 2.
- **Ahrweiler, P**. and N. Gilbert (eds.) (1998): *Computer Simulations in Science and Technology Studies*. Springer: Berlin, Heidelberg, New York.

Book chapters

- **Ahrweiler, P**. (2024, forthcoming): A cultural Comparison Framework for Assessing the Use of Artificial Intelligence in Public Social Service Provision. In: Ahrweiler, P. (ed., 2024 forthcoming): *Artificial Intelligence and Public Social Goods Eligibility Assessment - Achieving Social Justice Through Technology***.** Springer Nature**.** Berlin, Heidelberg, New York.
- **Ahrweiler, P**., Luque Capellas, B., Späth, E., Wurster, D., Siqueiros, J. (2024, forthcoming): Safe Spaces – A Concept based on participatory Methods for Involving vulnerable Groups in Innovation. In: Ahrweiler, P. (ed., 2024 forthcoming): *Artificial Intelligence and Public Social Goods Eligibility Assessment - Achieving Social Justice Through Technology***.** Springer Nature**.** Berlin, Heidelberg, New York. 4
- **Ahrweiler, P**. (2024, forthcoming): Recommendations for AI Policy and Technology Production. in: Ahrweiler, P. (ed., 2024 forthcoming): *Artificial Intelligence and Public Social Goods Eligibility Assessment - Achieving Social Justice Through Technology***.** Springer Nature**.** Berlin, Heidelberg, New York.

- Späth, E., **Ahrweiler, P**. (2024, forthcoming): AI Use for granting Asylum in Germany – Social Assessment of Refugees. in: Ahrweiler, P. (ed., 2024 forthcoming): *Artificial Intelligence and Public Social Goods Eligibility Assessment - Achieving Social Justice Through Technology***.** Springer Nature**.** Berlin, Heidelberg, New York.
- **Ahrweiler, P.** (2023, forthcoming): The Evolution of Innovation. In: Chen, P., Elsner, W. and A. Pyka (eds.): Routledge Handbook of Complexity Economics. London: Routledge.
- **Ahrweiler, P.** (2019): Innovation Management Simulations using Agent-Based Modelling, in: Chen, J., Brem, A., Viardot, E., Wong, P. K.: *The Routledge Companion to Innovation Management*: pp. 539-559.
- **Ahrweiler, P.** (2019): Theories in (inter)action. A complex dynamic system for theory evaluation in Science Studies. In: Bar-Yam, Y. Unifying Themes in Complex Systems Volume I., Boca Raton: CRC Press, pp. 75-84.
- **Ahrweiler, P.** (2017): Simulationsexperimente realexperimenteller Politik – der Gewinn der Zukunftsdimension im Computerlabor. In: Böschen, S., Gross, M. and W. Krohn (eds.): *Experimentelle Gesellschaft.* Nomos Verlagsgesellschaft, edition sigma: Baden-Baden,pp. 199-237.
- **Ahrweiler, P.,** N. Gilbert and A. Pyka (2016): Joining Complexity Science and Social Simulation for Innovation Policy. In: Ahrweiler, P., Gilbert, N. und A. Pyka (eds.): *Joining Complexity Science and Social Simulation for Innovation Policy. Agent- based Modelling using the SKIN Platform.* Cambridge Scholars Publishing, UK.
- **Ahrweiler, P.,** Pyka, A. and N. Gilbert (2016): Policy Modelling of Large-Scale Social Systems - Lessons from the SKIN Model of Innovation. In: Ahrweiler, P., Gilbert, N. and A. Pyka (eds.): *Joining Complexity Science and Social Simulation for Innovation Policy. Agent-based Modelling using the SKIN Platform.* Cambridge Scholars Publishing, UK.
- **Ahrweiler, P**. (2015): RRI-Governance zwischen linearer Interventionslogik und Sozialinnovation. Interview. In: Bogner, A., Decker, M. and M. Sotoudeh (eds.): *Responsible Innovation. Neue Impulse für die Technikfolgenabschätzung.* Gesellschaft – Technik – Umwelt, Neue Folge Bd. 18. Nomos Verlagsgesellschaft, edition sigma: Baden-Baden, 131-136.
- Majstorovic, D., Wimmer M., Lay-Yee, R., Davis, P. and **P. Ahrweiler** (2015): Features and Added Value of Simulation Models Using Different Modelling Approaches Supporting Policy-Making: A Comparative Analysis. In: Janssen, M., Wimmer, M. and A. Deljoo (eds.): *Policy Practice and Digital Science – Integrating Complex Systems, Social Simulation and Public Administration in Policy Research.* Series Public Administration and Information Technology, Springer: Heidelberg/New York, 95–123.
- **Ahrweiler, P.** and N. Gilbert (2015): The Quality of Social Simulation - an Example from Research Policy Modelling. In: Janssen, M., Wimmer, M. and A. Deljoo (eds.): *Policy Practice and Digital Science – Integrating Complex Systems, Social Simulation and Public Administration in Policy Research,* Series Public Administration and Information Technology, Springer: Heidelberg/New York, 35– 55.
- **Ahrweiler, P.,** Gilbert, N. and A. Pyka (2015): Innovation Policy Modeling with SKIN. In: Johnston, E. (ed.): *Governance in the Information Era: Theory and Practice of Policy Informatics*. Routledge: London, 229–246.
- **Ahrweiler, P**., Pyka, A. and N. Gilbert (2014): Simulating Knowledge Dynamics in Innovation Networks: an Introduction. In: Gilbert, N., Ahrweiler, P. and A. Pyka (eds.): *Simulating Knowledge Dynamics in Innovation Networks,* Springer: Heidelberg/New York, 1–14.
- **Ahrweiler, P**., Schilperoord, M., Pyka, A. and N. Gilbert (2014): Testing Policy Options for Horizon 2020 with SKIN. In: Gilbert, N., Ahrweiler, P. and A. Pyka (eds.): *Simulating Knowledge Dynamics in Innovation Networks,* Springer: Heidelberg/New York, 155–184.
- Schilperoord, M. and **P. Ahrweiler** (2014): Towards a Prototype Policy Laboratory for Simulating Innovation Networks. In: Gilbert, N., Ahrweiler, P. and A. Pyka (eds.): *Simulating Knowledge Dynamics in Innovation Networks,* Springer: Heidelberg/New York, 185–198.
- Schrempf, B. and **P. Ahrweiler** (2014): Modelling the Emergence of a General- Purpose Technology from a knowledge-based Perspective – the Case of Nanotechnology. In: Gilbert, N., Ahrweiler, P. and A. Pyka (eds.): *Simulating Knowledge Dynamics in Innovation Networks,* Springer: Heidelberg/New York, 201–216.
- **Ahrweiler, P.** and A. Pyka (2014): Innovation. In: Saam, N. and N. Braun (eds.): *Handbuch Modellbildung und Simulation in den Sozialwissenschaften*. VS-Verlag: Wiesbaden, 855–885.
- **Ahrweiler, P**. and M. Keane (2014): Innovation Networks (Reprint). In: Shamiyeh, M. and DOM Research Laboratory (eds.): *Driving Desired Futures: Turning Design Thinking into Real Innovation.* Birkhaeuser: Basel, 278–294.
- **Ahrweiler, P**., Schilperoord, M., Gilbert, N. and A. Pyka (2012): Simulating the Role of MNCs for Knowledge and Capital Dynamics in Networks of Innovation. In: Heidenreich, M. (ed.): *Innovation and Institutional Embeddedness of Multinational Companies*. Edward Elgar: Cheltenham, UK, 384–412.
- **Ahrweiler, P**. (2010): Innovation in complex social Systems - An Introduction. In: Ahrweiler, P. (ed.): *Innovation in complex social Systems*. Routledge: London, 1– 25.
- **Ahrweiler, P**. (2010): Innovation in complex social Systems - Some Conclusions. In: Ahrweiler, P. (ed.): *Innovation in complex social Systems*. Routledge: London, 315–322.
- Scholz, R., Nokkala, T., **Ahrweiler, P**., Pyka, A. and N. Gilbert (2010): The agent- based Nemo Model (SKEIN) - Simulating European Framework Programmes. In: Ahrweiler, P. (ed.): *Innovation in complex social Systems*. Routledge: London, 300–314.
- Gilbert, N., **Ahrweiler, P.** and A. Pyka (2010): Learning in Innovation Networks - some Simulation Experiments. Re-Print. In: Ahrweiler, P. (ed.): *Innovation in complex social Systems*. Routledge: London, 235–249. 5
- Pyka, A., **Ahrweiler, P.** and N. Gilbert (2009): Agent-based Modelling of Innovation Networks - The Fairytale of Spillovers. In: Pyka, A. and A. Scharnhorst (eds.): *Innovation Networks. New Approaches in Modeling and Analyzing*. Springer: Berlin/New York, 101–126.

- Gilbert, N. and **P. Ahrweiler** (2009): The Epistemologies of Social Simulation Research. In: Squazzoni, F. (ed.): *Epistemological Aspects of Computer Simulation in the Social Sciences*. Springer: Berlin/New York, 12–28.
- Pyka, A., **Ahrweiler, P.** and N. Gilbert (2006): Knowledge-Generation and -Distribution Processes in Innovation Collaborations and Networks. In: Trappl, R. (ed.): *Cybernetics and Systems, Vol. 2*, Austrian Society for Cybernetic Studies, Vienna, 673–678.
- **Ahrweiler, P**. (2005): Gesellschaftliche Kohäsion durch Kommunikationstechnologie? Zur Interdependenz von technischem und sozialem Wandel. In: Ahrweiler, P. and B. Thomass (Hg.): *Internationale partizipatorische Kommunikationspolitik*. LIT: Münster/New York,165–180.
- **Ahrweiler P.,** Gilbert N. and A. Pyka (2004): Die Simulation von Lernen in Innovationsnetzwerken. In: Florian, M. and F. Hillebrand (eds.): *Adaption und Lernen in und von Organisationen*. Westdeutscher Verlag: Wiesbaden, 165–185.
- **Ahrweiler P.,** Gilbert N. and A. Pyka (2004): Simulating Knowledge Dynamics in Innovation Networks. In: Leombruni, R. and M. Richiardi (eds.): *Industry and Labor Dynamics - the Agent-based Computational Economics Approach*. World Scientific Press: Singapore, 284–296.
- **Ahrweiler, P**. (2003): Computer-Mediation: Softwaregestütztes Kommunikations- und Konfliktmanagement. In: Christaller, T. and J. Wehner (eds.): *Autonome Maschinen*. Westdeutscher Verlag: Wiesbaden, 244–267.
- Gilbert, N., Pyka, A., and **P. Ahrweiler** (2002): Simulating Innovation Networks. In: Pyka, A. and G. Küppers (eds.) *Innovation Networks. Theory and Practice*. Edward Elgar: Cheltenham, 169–196.
- **Ahrweiler, P.,** de Jong, S. and P. Windrum (2002): Evaluating Innovation Networks. In: Pyka, A. and G. Küppers (eds.): *Innovation Networks. Theory and Practice*. Edward Elgar: Cheltenham,197–212.
- **Ahrweiler, P**. (2000): Die Integration heterogener Wissenssysteme auf dem Computer. In: Ohly, H.P. et al. (eds.): *Globalisierung und Wissensorganisation - Neue Aspekte für Wissen, Wissenschaft und Informationssysteme*. Ergon: Würzburg, 375–389.
- **Ahrweiler, P**. and S. Wörmann (1998): Computer Simulations in Science and Technology Studies. In: Ahrweiler, P. and N. Gilbert (eds.): *Computer Simulations in Science and Technology Studies*. Springer: Berlin/New York, 33–52.
- **Ahrweiler, P**. and R. Wolkenhauer (1998): SiSiFOS – Simulating Studies on the internal Formation and the Organization of Science. In: Ahrweiler, P. and N. Gilbert (eds.): *Computer Simulations in Science and Technology Studies*. Springer: Berlin/New York,129–143.
- **Ahrweiler, P**. (1998): Theories in (Inter)Action - A complex dynamic System for Theory Evaluation in Science. In: Bar-Yam, Y. (ed.): *Unifying Themes in Complex Systems*. Perseus Books: Boston, 75–85.
- **Ahrweiler, P.** (1997): Negotiating a new Science: Artificial Intelligence. In: Etzkowitz, H. and L. Leydesdorff (eds.): *Universities and the global Knowledge Economy*. Pinter: London/Washington, 97–105.
- **Ahrweiler, P**. (1995): KI West und KI Ost: Die Institutionalisierung eines Hochtechnologie-Fachs in Deutschland. In: Rammert, W. (ed.): *Soziologie und künstliche Intelligenz. Produkte und Probleme einer Hochtechnologie*. Campus: Frankfurt/New York, 111–131.

Other publications

- Ahrweiler, P. and M. Neumann (2021): AI Governance for the People. In: AI Governance in 2020. A Year in Review. Shanghai Institute for the Science of Science (Hg.). Shanghai, June 2021, 41-43.
- Ahrweiler, P. (2020): Interdisciplinary Approach to AI Governance Research. In: AI Governance in 2019. A Year in Review. Shanghai Institute for the Science of Science (Hg.). Shanghai, June 2020, 25-27.
- Ahrweiler, P. (2016): Research can be more responsible with the right Partner. Euroscientist Jan 2016. http://www.euroscientist.com/research-can-be-more- responsible-with-the-right-partner/.
- Ahrweiler, P. (2014): Predicting Science Policy Outcome with agent-based Models. Euroscientist Mai 2014. http://www.euroscientist.com/predicting-science-policy- outcomes-with-agent-based-model/.
- Ahrweiler, P., Gilbert, N. und Pyka, A. (2012): Using network analysis to monitor and track effects resulting from changes in policy intervention and instruments. Final Report SMART 2010/0025, DG Information Society and Media, European Commission, Brussels, Belgium.
- Ahrweiler, P. (2002): Computergestütztes Konfliktmanagement in modernen Organisationen. Zeitschrift für Konfliktmanagement 5 (5): 209–212.
- Ahrweiler, P., Pyka, A. and N. Gilbert (2001): Innovationsnetzwerke - Simulationsexperimente zur Politikberatung. I.T.S. Time: Technology, Innovation, Management & Engineering 2: 21–28.