

SCHOLARLY ACTIVITY

Personal

Marty J. Wolf

mjwolf@acm.org

Chronological Log of Scholarly Activity

Wolf, M.J. "Computer literacy as a process," at *National Education Computing Conference*, (June, 1993).

Wolf, M.J. "Nondeterministic circuits, space complexity and quasigroups," *Theoretical Computer Science* **125**, 2 (March, 1994), 295-313.

Wolf, M.J. "Models of computation: An introduction to computer science," at *Small College Computing Symposium*, (April, 1994).

Wolf, M.J. and D.J. Haglin. "An optimal algorithm for finding all convex subsets in tournaments," at *Midwest Theory Day*, (December, 1994). Presented by M. Wolf.

Later appeared as: Wolf, M.J. and D.J. Haglin. "An optimal algorithm for finding all convex subsets in tournaments," *Ars Combinatoria*, **52**, (May, 1999), 173-180.

Wolf, M.J. and M.T. Gilbert. "The metamorphosis of ideas: Evaluating creative thinking," at *Winter 1995 Bush Faculty Development Conference*, (February, 1995). Joint presentation.

Haglin, D.J. and M.J. Wolf. "On convex subsets in tournaments," *SIAM Journal on Discrete Mathematics*, **9**, 1 (February, 1996), 63-70.

Also presented at: Wolf, M.J. and D.J. Haglin. "On convex subsets in tournaments," at *Paul Catlin Memorial Workshop on Graph Minors and Eulerian Subgraphs*, (June, 1996). Presented by M. Wolf.

Kelling, S.S., K.K. Klein, and M.J. Wolf. "Mathematical and computer modeling of the spread of hypovirulence in fungal populations," at *19th Fungal Genetics Conference*, (March, 1997). Presented by K.K. Klein.

Wolf, M.J., L.S. Jermin, S. Easteal, M. Kahn, and B.D. McKay. "Algorithms for generating evolutionary trees," at *National Research Symposium: Statistical Methods in Genome Research*, (July, 1997). Presented by M. Wolf.

Later appeared as: Wolf, M.J., S. Easteal, M. Kahn, B.D. McKay, and L.S. Jermin. "TrExML: a maximum-likelihood program for extensive tree-space exploration," *Bioinformatics*, **16**, 4, (2000), 383-394.

Goelman, D., P. Knoke, M. Murphy, E. Evans, and M.J. Wolf. "The terminal master's degree: Does it need to be cured?," panel presentation at *1998 SIGCSE Technical Symposium*, *SIGCSE Bulletin*, **30**, 1 (March, 1998), 355-356.

Parker, D.B, R.F. Westhoff, and M.J. Wolf. "On the breadth of lattices of convex sets in multipartite tournaments," at the 2002 Joint AMS-MAA Meetings, *Abstracts of Paper Presented to the American Mathematical Society*, **23**, 1, Issue 127, (January 2002) Abstract No. 973-06-683, p. 51. Presented by R. Westhoff.

Later appeared as: Parker, D.B, R.F. Westhoff, and M.J. Wolf. "Two-path convexity in clone-free regular multipartite tournaments," *Australasian Journal of Combinatorics*. **30**, (October, 2006), 177-196.

Wolf, M.J., K. Bowyer, D. Gotterbarn, and K. Miller. "Open source software: Intellectual challenges to the status quo," panel presentation at *2002 SIGCSE Technical Symposium*, *SIGCSE Bulletin*, **34**, 1 (March, 2002), 317-318.

Stamatakis, A., T. Ludwig, H. Meier, and M.J. Wolf. "Efficient use of subtree equality vectors for the acceleration of sequential and parallel phylogenetic tree calculations based on the maximum likelihood method," *Proceedings of the IEEE Computer Society Bioinformatics Conference*, (August, 2002). Presented by A. Stamatakis.

Stamatakis, A., T. Ludwig, H. Meier, and M.J. Wolf. "Accelerating parallel maximum likelihood-based phylogenetic tree calculations using subtree equality vectors," *Super-Computing 2002*, (November, 2002). Presented by A. Stamatakis.

Grodzinsky, F., K. Miller, and M.J. Wolf. "Ethical issues in open source software," *Sixth Annual Ethics and Technology Conference*, (June, 2003). Presented by F. Grodzinsky.

Later appeared as: Grodzinsky, F.S., K. Miller, and M.J. Wolf. "Ethical issues in open source software," *Journal of Information, Communication and Ethics in Society*, **1**, 4, (2003), 193-205.

Wolf, M.J. "Debate as a final examination in a computer ethics course," *Midwest Instruction and Computing Symposium*, (April 2005).

Grodzinsky, F., K. Miller, and M.J. Wolf. "The ethical implications of the messenger's haircut: Steganography in the digital age," *Eighth ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies*, (September, 2005). Joint presentation.

Later appeared as: Grodzinsky, F., K. Miller, and M.J. Wolf. "The ethical implications of the messenger's haircut: Steganography in the digital age," in *Readings in Internet Security: Hacking, Counterhacking, and Society*, K. E. Himma, ed. Jones and Bartlett, Sudbury, MA: (2007), 205-220.

Wolf, M.J. and F. Grodzinsky. "Good/fast/cheap: Contexts, relationships and professional responsibility during software development," *The 21st Annual ACM Symposium on Applied Computing-Computer Ethics and Human Values Track*, (April, 2006). Joint presentation.

Grodzinsky, F.S., K. Miller, and M.J. Wolf. "Influences and incentives for software reliability," *Journal of Information, Communication and Ethics in Society*. **4**, 2, (2006), 103-113.

- Grodzinsky, F., K. Miller, and M.J. Wolf. "The ethics of designing artificial agents," Plenary session at *The Seventh International Computer Ethics Philosophical Enquiry Conference (CEPE 2007)*, (July, 2007). Joint presentation.
- Later appeared as: Grodzinsky, F., K. Miller, and M.J. Wolf. "The ethics of designing artificial agents," *Ethics and Information Technology*, **10**, 2-3, (September, 2008), 115-121.
- Turilli, M., D. Burk, K. Miller, M. Shaikh, and M. Wolf. "Ethical and legal implications of software design" plenary panel presentation at *2007 North American Computers and Philosophy (NA-CAP) Conference*, (July, 2007).
- Crist, C., L. Lade, S. Collins, K. Hynick, M. Bequette, and M.J. Wolf. "Blurring the boundaries and enhancing transitions: New models of improving college and work readiness in a P-16 environment," panel presentation at *MnSCU Chief Academic and Student Affairs Officers-College and University Deans Meeting*, (October, 2007).
- Parker, D.B, R.F. Westhoff, and M.J. Wolf. "On two-path convexity in multipartite tournaments," *European Journal of Combinatorics* **29**, (April, 2008), 641-651.
- Grodzinsky, F. and M.J. Wolf. "Ethical interest in free and open source software," in *The Handbook of Information and Computer Ethics*, K. E. Himma and H.T. Tavani, eds. Wiley, Hoboken, NJ: (2008), 245-271.
- Grodzinsky, F., K. Miller, and M.J. Wolf. "Developing artificial agents worthy of trust: 'Would you buy a used car from this artificial agent?'," *The Eighth International Computer Ethics Philosophical Enquiry Conference (CEPE 2009)*, (June, 2009). Presented by F. Grodzinsky and K. Miller. Also appeared in *Computers and Society* **39**, 1, (June, 2009), 15-26.
- Later appeared as: Grodzinsky, F.S., K.W. Miller, and M.J. Wolf. "Developing artificial agents worthy of trust: 'Would you buy a used car from this artificial agent?'," *Ethics and Information Technology*, **13**, 1, (March, 2011), 17-27.
- Wolf, M.J., K. Miller, and F. Grodzinsky. "Free, Source-Code-Available, or Proprietary: An ethically charged, context-sensitive choice" *Tenth ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies*, (September, 2008). Joint presentation.
- Webb, D., G. Richgels, M.J. Wolf, T. Frauenholtz, and A. Hougen. "Improving student interest, mathematical skills, and future success through implementation of novel mathematics bridge course for high school seniors and post-secondary students," *Tenth International Conference on Models in Developing Mathematics Education*, (September, 2009). Presented by D. Webb and G. Richgels.
- Miller, K., F. Grodzinsky, and M.J. Wolf. "Why Turing shouldn't have to guess," *2009 Asia-Pacific Computing and Philosophy Conference*, (October, 2009). Presented by K. Miller.
- Parker, D.B, R.F. Westhoff, and M.J. Wolf. "Convex independence and the structure of clone-free multipartite tournaments," *Discussiones Mathematicae Graph Theory* **29**, 1 (2009), 51-69.

- Wolf, M.J., K. Miller, and F. Grodzinsky. "On the meaning of Free Software," *Ethics and Information Technology*, **11**, 4, (December, 2009), 279-286.
- Grodzinsky, F., K. Miller, and M.J. Wolf. "Toward a model of trust and e-trust processes using object-oriented methodologies," *Eleventh ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies*, (April, 2010). Joint presentation.
- Parker, D.B, R.F. Westhoff, and M.J. Wolf. "Two-path convexity and bipartite tournaments of small rank," *Ars Combinatoria*, **97**, (October, 2010).
- Grodzinsky, F., M.J. Wolf, and K. Miller. "Quantum computing and the cloud: Humans trusting humans via machines," *IEEE International Symposium on Technology and Society 2011*, (May 2011). Presented by K. Miller.
- Wolf, M.J., F. Grodzinsky, and K. Miller. "Is quantum computing inherently evil?" *The Ninth International Computer Ethics Conference-Computer Ethics Philosophical Enquiry*, (May/June, 2011). Joint presentation.
- Grodzinsky, F., K. Miller, and M.J. Wolf. "Moral responsibility for computing artifacts: 'The Rules' and issues of trust." *Twelfth ETHICOMP International Conference on the Social and Ethical Impacts of Information and Communication Technologies*, (September, 2011). Joint presentation. Also appeared in *SIGCAS Computers and Society*, **42**, 2, (December, 2012), 15-25.
- Wolf, M.J. "Analysis, clarification and extension of the theory of strongly semantic information," *Etica and Politica*, **XIII**, 2, (2011), 246-255.
- Wolf, M.J., F. Grodzinsky, and K. Miller. "Artificial agents, cloud computing, and quantum computing: Applying Floridi's method of levels of abstraction," in Luciano Floridi's *Philosophy of Technology: Critical Reflections*, H. Demir, ed. Springer: (2012), 23-41.
- Miller, K., M.J. Wolf, and F. Grodzinsky. "Behind the mask: machine morality." *The Machine Question: AI, Ethics, and Moral Responsibility Symposium at the AISB/IACAP World Congress 2012 - Alan Turing*, July 2-6, 2012. Presented by K. Miller.
- Later appeared as: Miller, K., M.J. Wolf, and F. Grodzinsky. "Behind the mask: Machine morality." *Journal of Experimental & Theoretical Artificial Intelligence*, **27**, 1, (2015), 99-107. DOI:10.1080/0952813X.2014.948315.
- Wolf, M.J. "The importance of actualizing control in the processing of instructional information." *Philosophy and Technology*, **26**, 1, (2013), 67-70. DOI:10.1007/s13347-012-0076-5. Invited commentary on N. Fresco's "Information processing as an account of concrete digital computation."
- Grodzinsky, F., K. Miller, and M.J. Wolf. "Automated deceptions, benevolent and otherwise." *ETHICOMP 2013*, (June, 2013). Presented by F. Grodzinsky and M.J. Wolf.
- Wolf, M.J., C. Greer, M. Driscoll, S. Anderson, and T. Bobrowsky. "An analysis of higher education using Floridi's information ethics." *ETHICOMP 2013*, (June, 2013). Joint presentation.

- Wolf, M.J. “Challenges for artificial general intelligence compound its ethical challenges.” Keynote address at *the Tenth International Computer Ethics Philosophical Enquiry Conference (CEPE 2013)*, (July, 2013).
- Wolf, M.J., K. Miller, and F. Grodzinsky. “Morality*: An object-oriented approach to comparing machine and human morality.” *The Tenth International Computer Ethics Philosophical Enquiry Conference (CEPE 2013)*, (July, 2013). Presented by K. Miller and M.J. Wolf.
- Grodzinsky, F., K. Miller, and M.J. Wolf. “On deception and trust in artificial agent development.” *IACAP 2013*, (July, 2013). Presented by F. Grodzinsky and K. Miller.
- Fresco, N. and M.J. Wolf. “The instructional information processing account,” *Synthese*, **191**, 7, (2014), 1469-1492. DOI:10.1007/s11229-013-0338-5.
- Grodzinsky, F., K. Miller, and M.J. Wolf. “Developing automated deceptions and the impact on trust,” *Philosophy and Technology*, **28**, 1, (March, 2015), 91-105. DOI:10.1007/s13347-014-0158-7.
- Grodzinsky, F., K. W. Miller, and M.J. Wolf. “Augmented reality in your eye: Google Glass, Space Glasses, and beyond,” *The Eleventh International Computer Ethics Philosophical Enquiry Conference (CEPE 2014)*, (June, 2014). Joint presentation.
- Wolf, M.J., and N. Fresco. “‘Sploits for Sale!’ And that just might be ethical,” *ETHICOMP 2014*, (June, 2014). Presented by M.J. Wolf.
- Wolf, M.J., F. Grodzinsky, and K. W. Miller. “Robots, ethics and software FOSS vs. proprietary licenses” *IACAP 2014*, (July, 2014). Presented by M.J. Wolf.
- Later appeared as: Wolf, M.J., F. Grodzinsky, and K. W. Miller. “Robots, ethics and software FOSS vs. proprietary licenses” in *Computing and Philosophy*, V. C. Müller, ed. Heidelberg: Springer (Synthese Library), (2016).
- Wolf, M.J., and N. Fresco. “My liver is broken. Can you print me a new one?” *IACAP 2014*, (July, 2014). Presented by M.J. Wolf.
- Later appeared as: Wolf, M.J., and N. Fresco. “My liver is broken. Can you print me a new one?” in *Computing and Philosophy*, V. C. Müller, ed. Heidelberg: Springer (Synthese Library), (2016).
- Wolf, M.J. “A case for information as a basis for ethics” *Techné: Research in Philosophy and Technology* **18**, 3, (Fall 2014), 251254. DOI: 10.5840/techne201418323.
- Fresco, N. and M.J. Wolf. “Information Processing and Instructional Information” in *The Routledge Handbook of Philosophy of Information*, L. Floridi, ed. Abingdon, UK: Taylor & Francis, (2016).
- Miller, K., M.J. Wolf, and F. Grodzinsky. “This ethical trap is for roboticists, not robots: Why use a robot when a human will do?” *CEPE/IACAP 2015*, (June, 2015). Presented by M.J. Wolf.

- Wolf, M.J., F. Grodzinsky, and K. W. Miller. “Augmented reality all around us: Power and perception at a crossroads” *ETHICOMP 2015*, (September, 2015). Joint presentation. Published as *SIGCAS Computers and Society - Special Issue on ETHICOMP*, **45**, 3, (September, 2015), 126-131.
- Wolf, M.J., F. Grodzinsky, and K. W. Miller. “There’s something in your eye: Ethical implications of augmented visual field devices,” *Journal of Information, Communication and Ethics in Society*, **14**, 3, (2016), 193-205.
- Wolf, M.J., and N. Fresco. “Ethics of the software vulnerabilities and exploits market,” *The Information Society*, **32**, 4, (2016), 269-279. DOI:10.1080/01972243.2016.1177764.
- Grodzinsky, F., M.J. Wolf, and K.W. Miller. “Applying a social-relational model to explore the curious case of hitchBOT” *IACAP 2016*, (June, 2016). Presented by M.J. Wolf.
- Later appeared as: Grodzinsky, F., M.J. Wolf, and K.W. Miller. “Applying a social-relational model to explore the curious case of hitchBOT” In: Berkich D., d’Alfonso M. (eds) *On the Cognitive, Ethical, and Scientific Dimensions of Artificial Intelligence*. Philosophical Studies Series, **134**, Springer, Cham. https://doi.org/10.1007/978-3-030-01800-9_17
- Fresco, N., M.J. Wolf, and B.J. Copeland. “On the indeterminacy of computation” *IACAP 2016*, (June, 2016). Presented by N. Fresco.
- Fresco, N., M.J. Wolf, and B.J. Copeland. “The Indeterminacy of Computation in Cognitive Science” *Explanatory Reasoning in the Sciences / The 2nd Jerusalem-MCMP Workshop in the Philosophy of Science*, (February, 2017). Presented by N. Fresco.
- Miller, K., M.J. Wolf, and F. Grodzinsky. “This ethical trap is for roboticists, not robots: On the issue of artificial agent ethical decision-making,” *Journal of Science and Engineering Ethics*, **23**, 2, (2017), 389-401. DOI: 10.1007/s11948-016-9785-y.
- Wolf, M.J., K. W. Miller, and F. Grodzinsky. “Why we should have seen that coming: Comments on Microsoft’s Tay ‘experiment’ and wider implications” *CEPE/ETHICOMP 2017*, (June, 2017).
- Later appeared as: Wolf, M.J., K. W. Miller, and F. Grodzinsky. “Why we should have seen that coming: Comments on Microsoft’s Tay ‘experiment’ and wider implications” *The ORBIT Journal*, **1**, 2, (2017) DOI: 10.29297/orbit.v1i2.49.
- Grodzinsky, F., K. W. Miller, and M.J. Wolf. “Looking for the Full Story: Ethical issues associated with session replay scripts” *ETHICOMP 2018*, (September, 2018).
- Fresco, N. and M.J. Wolf. “Data, signals and information in digital computation” *Logique et Analyse*, **61**, 241, (2018).
- Wolf, M.J., K. W. Miller, and F. S. Grodzinsky. “On the responsibility for uses of downstream software” *CEPE 2019*, (May, 2019).
- Flick, C., M. Kirkpatrick, D. Gotterbarn, and M.J. Wolf “ ‘Avoid harm’ considered harmful: does the ACM Code of Ethics advocate harm?” *CEPE 2019*, (May, 2019).
- Greer, C. and M.J. Wolf “Overcoming barriers to including ethics and social responsibility in computing courses” *ETHICOMP 2020*, (June, 2020).

- Grodzinsky, F., M.J. Wolf, and K. W. Miller. “On using a model for downstream responsibility” *ETHICOMP 2020*, (June, 2020).
- Grodzinsky, F., K. W. Miller, and M.J. Wolf. “Trust in artificial agents” in *The Routledge Handbook of Trust and Philosophy*, J. Simon, ed. Abingdon, UK: Taylor & Francis, (2020).
- Greer, C. and M.J. Wolf “Barriers to humanities and social science faculty supporting responsible computing in computing courses” *ETHICOMP 2021*, (June, 2021). Presented by C. Greer.
- Wolf, M.J., F. Grodzinsky, and K. W. Miller. “The pandemic is revealing how software developers can change university norms” *ETHICOMP 2021*, (June, 2021).
- Grodzinsky, F., K. W. Miller, and M.J. Wolf. “Ethical reflections on digital death and digital remains: Computing Professionals picking up bones” *CEPE 2021*, (July, 2021).
- N. Fresco, M. Artiga, and M.J. Wolf. “Which Teleological Function can Explain Computation in Both Biological and Artificial Systems?” *XCV Joint Session of the Aristotelian Society & the Mind Association*, (July, 2021). Presented by N. Fresco.
- N. Fresco, B.J. Copeland, and M.J. Wolf. “The Indeterminacy of Computation” *Synthese* (2021). <https://doi.org/10.1007/s11229-021-03352-9>