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. Jermiin, 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. Jermiin. "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.

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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.

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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.

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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.

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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.

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> 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.

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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.

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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

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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).

Later appeared as: Grodzinsky, F., K. W. Miller, and M.J. Wolf. "Session Replay Scripts: A Privacy Analysis," *The Information Society* (2022).

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).

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   Later appeared as: Wolf, M.J., F. Grodzinsky, and K. Miller. "Ethical reflections on handling digital remains: Computing professionals picking up bones," *Digital Society* (2022).

Fresco, N., 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.

Fresco, N., B.J. Copeland, and M.J. Wolf. "The indeterminacy of computation" *Synthese* (2021). https://doi.org/10.1007/s11229-021-03352-9

Kirkpatrick, M.S., E.N. Burton, and M.J. Wolf. "Free speech and computing professionals: Moral considerations and tensions," *ETHICOMP 2022*, (July, 2022).

Gotterbarn, D., M.S. Kirkpatrick, and M.J. Wolf. "From the page to practice: Support for computing professionals using a code of ethics," *ETHICOMP 2022*, (July, 2022).

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Gotterbarn, D. and M.J. Wolf. "Closing the AI responsibility gap with the code of ethics," (Extended Abstract), 125-128. *ETHICOMP 2024* (March, 2024).

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Fresco, N., M. Artiga, and M.J. Wolf. "Teleofunction in the service of computational individuation." *Philosophy of Science* **92**(1), 19-39. (January, 2025).