



















## REFERENCES

- [1] Nirav Ajmeri, Hui Guo, Pradeep K. Murukannaiah, and Munindar P. Singh. 2017. Arnor: Modeling Social Intelligence via Norms to Engineer Privacy-Aware Personal Agents. In *Proceedings of the 16th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS)*. IFAAMAS, São Paulo, 230–238. DOI: <http://dx.doi.org/10.5555/3091125.3091163>
- [2] Nirav Ajmeri, Hui Guo, Pradeep K. Murukannaiah, and Munindar P. Singh. 2018. Robust Norm Emergence by Revealing and Reasoning about Context: Socially Intelligent Agents for Enhancing Privacy. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence (IJCAI)*. IJCAI, Stockholm, 28–34. DOI: <http://dx.doi.org/10.24963/ijcai.2018/4>
- [3] Marguerite Barry, Kevin Doherty, Jose Marcano Belisario, Josip Car, Cecily Morrison, and Gavin Doherty. 2017. mHealth for Maternal Mental Health: Everyday Wisdom in Ethical Design. In *Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI)*. ACM, Denver, 2708–2756.
- [4] Cyrus D. Cantrell. 2000. *Modern Mathematical Methods for Physicists and Engineers*. Cambridge University Press, Cambridge, UK.
- [5] Jacob Cohen. 1988. *Statistical Power Analysis for the Behavioral Sciences* (2nd ed.). Lawrence Erlbaum Associates, Hillsdale, New Jersey.
- [6] Nicolas Cointe, Grégory Bonnet, and Olivier Boissier. 2016. Ethical Judgment of Agents' Behaviors in Multi-Agent Systems. In *Proceedings of the 2016 International Conference on Autonomous Agents and Multiagent Systems*. IFAAMAS, Singapore, 1106–1114.
- [7] Stephen Craneffeld, Felipe Meneguzzi, Nir Oren, and Bastin Tony Roy Savarimuthu. 2016. A Bayesian Approach to Norm Identification. In *Proceedings of the 22nd European Conference on Artificial Intelligence (ECAI)*. IOS Press, Amsterdam, 622–629.
- [8] Stephen Craneffeld, Michael Winikoff, Virginia Dignum, and Frank Dignum. 2017. No Pizza for You: Value-based Plan Selection in BDI Agents. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI)*. IJCAI, Melbourne, 178–184.
- [9] Karen Da Silva Figueiredo and Viviane Torres Da Silva. 2013. An Algorithm to Identify Conflicts Between Norms and Values. In *Proceedings of the 9th International Conference on Coordination, Organizations, Institutions, and Norms in Agent Systems (COIN)*. Springer, St. Paul, MN, 259–274.
- [10] Francien Dechesne, Gennaro Di Tosto, Virginia Dignum, and Frank Dignum. 2013. No Smoking Here: Values, Norms and Culture in Multi-Agent Systems. *Artificial Intelligence and Law* 21, 1 (01 Mar 2013), 79–107.
- [11] Virginia Dignum. 2017. Responsible Autonomy. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI)*. IJCAI, Melbourne, 4698–4704.
- [12] Ricard López Fogués, Pradeep K. Murukannaiah, Jose M. Such, and Munindar P. Singh. 2017. Sharing Policies in Multiuser Privacy Scenarios: Incorporating Context, Preferences, and Arguments in Decision Making. *ACM Transactions on Computer-Human Interaction (TOCHI)* 24, 1 (March 2017), 5:1–5:29. DOI: <http://dx.doi.org/10.1145/3038920>
- [13] Batya Friedman, Peter H. Kahn Jr., and Alan Borning. 2008. Value Sensitive Design and Information Systems. In *The Handbook of Information and Computer Ethics*, Kenneth Einar Himma and Herman T. Tavani (Eds.). John Wiley & Sons, Hoboken, New Jersey, Chapter 4, 69–101.
- [14] Larry V. Hedges and Ingram Olkin. 2014. *Statistical Methods for Meta-Analysis*. Academic Press, Inc., Orlando.
- [15] Alex Kayal, Willem-Paul Brinkman, Mark A. Neerincx, and M. Birna van Riemsdijk. 2018. Automatic Resolution of Normative Conflicts in Supportive Technology based on user values. *ACM Transactions on Internet Technology (TOIT)* 18, 4, Article 41 (May 2018), 21 pages.
- [16] Nadin Kökciyan and Pinar Yolum. 2017. Context-Based Reasoning on Privacy in Internet of Things. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI)*. IJCAI, Melbourne, 4738–4744.
- [17] Eugene F. Krause. 1973. Taxicab Geometry. *The Mathematics Teacher* 66, 8 (1973), 695–706.
- [18] Beishui Liao, Marija Slavkovic, and Leendert van der Torre. 2019. Building Jiminy Cricket: An Architecture for Moral Agreements Among Stakeholders. In *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society (AIES)*. ACM, Honolulu, 147–153.
- [19] Maite Lopez-Sanchez, Marc Serramia, Juan A Rodriguez-Aguilar, Javier Morales, and Michael Wooldridge. 2017. Automating Decision Making to Help Establish Norm-based Regulations. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems (AAMAS)*. IFAAMAS, São Paulo, 1613–1615.
- [20] Sean Luke, Claudio Cioffi-Revilla, Liviu Panait, Keith Sullivan, and Gabriel Balan. 2005. MASON: A Multiagent Simulation Environment. *Simulation: Transactions of the Society for Modeling and Simulation International* 81, 7 (July 2005), 517–527.
- [21] Pradeep K. Murukannaiah, Nirav Ajmeri, Catholijn M. Jonker, and Munindar P. Singh. 2020. New Foundations of Ethical Multiagent Systems. In *Proceedings of the 19th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS)*. IFAAMAS, Auckland, 1–5. Blue Sky Ideas Track.
- [22] Pardis Emami Naeini, Sruti Bhagavatula, Hana Habib, Martin Degeling, Lujo Bauer, Lorrie Faith Cranor, and Norman Sadeh. 2017. Privacy Expectations and Preferences in an IoT World. In *Proceedings of the 13th Symposium on Usable Privacy and Security (SOUPS)*. USENIX Association, Santa Clara, 399–412.
- [23] Luis G. Nardin, Tina Balke-Visser, Nirav Ajmeri, Anup K. Kalia, Jaime S. Sichman, and Munindar P. Singh. 2016. Classifying Sanctions and Designing a Conceptual Sanctioning Process Model for Socio-Technical Systems. *The Knowledge Engineering Review (KER)* 31 (March 2016), 142–166. Issue 02.
- [24] Serafim Opricovic and Gwo-Hsiung Tzeng. 2004. Compromise solution by MCDM methods: A comparative analysis of VIKOR and TOPSIS. *European Journal of Operational Research* 156, 2 (2004), 445–455.
- [25] Eric Pacuit. 2017. Voting Methods. In *The Stanford Encyclopedia of Philosophy* (fall 2017 ed.), Edward N. Zalta (Ed.). Metaphysics Research Lab, Stanford University, Stanford.
- [26] John Rawls. 1985. Justice as Fairness: Political not Metaphysical. *Philosophy and Public Affairs* 14, 3 (1985), 223–251.
- [27] Milton Rokeach. 1973. *The Nature of Human Values*. Free Press, New York.
- [28] Leonard J. Savage. 1951. The Theory of Statistical Decision. *Journal of the American Statistical Association* 46, 253 (1951), 55–67.
- [29] Sebastian Schnorf, Aaron Sedley, Martin Ortlieb, and Allison Woodruff. 2014. A Comparison of Six Sample Providers Regarding Online Privacy Benchmarks. In *Proceedings of the SOUPS Workshop on Privacy Personas and Segmentation*. Menlo Park, 1–7.
- [30] Shalom H. Schwartz. 2012. An Overview of the Schwartz Theory of Basic Values. *Online Readings in Psychology and Culture* 2, 1 (2012), 11.
- [31] Marc Serramia, Maite López-Sánchez, Juan A. Rodríguez-Aguilar, Manel Rodríguez, Michael Wooldridge, Javier Morales, and Carlos Ansótegui. 2018. Moral Values in Norm Decision Making. In *Proceedings of the 17th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS)*. IFAAMAS, Stockholm, 1294–1302.
- [32] Munindar P. Singh. 2013. Norms As a Basis for Governing Sociotechnical Systems. *ACM Transactions on Intelligent Systems and Technology (TIST)* 5, 1, Article 21 (Dec. 2013), 23 pages.
- [33] Kaj Sotola. 2016. Defining Human Values for Value Learners. In *Proceedings of the Workshops of the 30th AAAI Conference on Artificial Intelligence: AI, Ethics, and Society*. AAAI Press, Phoenix, 113–123.
- [34] Jose M. Such. 2017. Privacy and Autonomous Systems. In *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI)*. IJCAI, Melbourne, 4761–4767.
- [35] Onuralp Ulusoy and Pinar Yolum. 2019. Emergent Privacy Norms for Collaborative Systems. In *Proceedings of the 22nd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)*. Springer, Torino, 514–522.
- [36] Duncan J. Watts and Steven H. Strogatz. 1998. Collective Dynamics of 'Small-World' Networks. *Nature* 393 (June 1998), 440–442.
- [37] Han Yu, Zhiqi Shen, Chunyan Miao, Cyril Leung, Victor R. Lesser, and Qiang Yang. 2018. Building Ethics into Artificial Intelligence. In *Proceedings of the 27th International Joint Conference on Artificial Intelligence, IJCAI*. IJCAI, Stockholm, 5527–5533.