

Machine Ethics: The Design and Governance of Ethical AI [Scanning the Issue]

Proceedings of the IEEE

107, 509-517

DOI: [10.1109/jproc.2019.2900622](https://doi.org/10.1109/jproc.2019.2900622)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Transparent Ownership of Mobility-as-a-Service [Editorial]. IEEE Technology and Society Magazine, 2019, 38, 5-8. | 0.6 | 3 |
| 2 | Intelligent Systems. Research Technology Management, 2019, 62, 46-52. | 0.6 | 3 |
| 3 | The Good, the Bad, and the Aesthetically Challenged: The Good, the Bad, and the Aesthetically Challenged [Opinion]. IEEE Technology and Society Magazine, 2019, 38, 27-31. | 0.6 | 2 |
| 4 | Augmented Shopping Experience for Sustainable Consumption Using the Internet of Thing. IEEE Internet of Things Magazine, 2019, 2, 46-51. | 2.0 | 8 |
| 5 | Ethical Conundrums and Virtual Humans. Postdigital Science and Education, 2020, 2, 289-301. | 4.3 | 8 |
| 6 | Trust Toward Robots and Artificial Intelligence: An Experimental Approach to Human-Technology Interactions Online. Frontiers in Psychology, 2020, 11, 568256. | 1.1 | 43 |
| 7 | Impact of Artificial Intelligence Research on Politics of the European Union Member States: The Case Study of Portugal. Sustainability, 2020, 12, 6708. | 1.6 | 14 |
| 8 | Embedding Values in Artificial Intelligence (AI) Systems. Minds and Machines, 2020, 30, 385-409. | 2.7 | 86 |
| 9 | Nordic lights? National AI policies for doing well by doing good. Journal of Cyber Policy, 2020, 5, 332-349. | 0.8 | 13 |
| 10 | Moral responsibility and action in the use of artificial intelligence in construction. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2020, 173, 166-174. | 0.4 | 7 |
| 11 | Toward Intelligent Industrial Informatics: A Review of Current Developments and Future Directions of Artificial Intelligence in Industrial Applications. IEEE Industrial Electronics Magazine, 2020, 14, 57-72. | 2.3 | 43 |
| 12 | Machine Intelligence in Cardiovascular Medicine. Cardiology in Review, 2020, 28, 53-64. | 0.6 | 29 |
| 13 | Designing Smart Operator 4.0 for Human Values: A Value Sensitive Design Approach. Procedia Manufacturing, 2020, 42, 219-226. | 1.9 | 41 |
| 14 | Moral Gridworlds: A Theoretical Proposal for Modeling Artificial Moral Cognition. Minds and Machines, 2020, 30, 219-246. | 2.7 | 5 |
| 15 | Moral control and ownership in AI systems. AI and Society, 2021, 36, 289-303. | 3.1 | 3 |
| 16 | Ethics and AI Issues: Old Container with New Wine?. Lecture Notes in Computer Science, 2021, , 161-172. | 1.0 | 0 |
| 17 | AI and Constitutionalism: The Challenges Ahead. Lecture Notes in Computer Science, 2021, , 127-149. | 1.0 | 0 |
| 18 | Contemporary Approaches for AI Governance in Financial Institutions. SSRN Electronic Journal, 0, , | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Ethical Behavior and Legal Regulations in Artificial Intelligence (Part One). Advances in Human and Social Aspects of Technology Book Series, 2021, , 12-26. | 0.3 | 0 |
| 20 | Raising Ethical Machines. Advances in Human and Social Aspects of Technology Book Series, 2021, , 47-68. | 0.3 | 0 |
| 21 | Mapping value sensitive design onto AI for social good principles. AI and Ethics, 2021, 1, 283-296. | 4.6 | 75 |
| 22 | The practical ethics of bias reduction in machine translation: why domain adaptation is better than data debiasing. Ethics and Information Technology, 2021, 23, 419-433. | 2.3 | 12 |
| 23 | Engineering ethical behaviors in autonomous industrial cyber-physical human systems. Cognition, Technology and Work, 2022, 24, 113-126. | 1.7 | 20 |
| 24 | Moral zombies: why algorithms are not moral agents. AI and Society, 2021, 36, 487-497. | 3.1 | 46 |
| 25 | Ethics of Artificial Intelligence in Medicine and Ophthalmology. Asia-Pacific Journal of Ophthalmology, 2021, 10, 289-298. | 1.3 | 32 |
| 26 | A Deeper Look at Autonomous Vehicle Ethics: An Integrative Ethical Decision-Making Framework to Explain Moral Pluralism. Frontiers in Robotics and AI, 2021, 8, 632394. | 2.0 | 12 |
| 27 | AI vs "Al" Synthetic Minds or Speech Acts. IEEE Technology and Society Magazine, 2021, 40, 6-13. | 0.6 | 10 |
| 28 | The Ten Commandments of Ethical Medical AI. Computer, 2021, 54, 119-123. | 1.2 | 62 |
| 29 | Automated vehicles and the morality of post-collision behavior. Ethics and Information Technology, 2021, 23, 691-701. | 2.3 | 1 |
| 30 | Deep fair models for complex data: Graphs labeling and explainable face recognition. Neurocomputing, 2022, 470, 318-334. | 3.5 | 13 |
| 31 | Toward Learning Trustworthily from Data Combining Privacy, Fairness, and Explainability: An Application to Face Recognition. Entropy, 2021, 23, 1047. | 1.1 | 8 |
| 32 | Operationalising AI ethics: how are companies bridging the gap between practice and principles? An exploratory study. AI and Society, 2022, 37, 1663-1687. | 3.1 | 17 |
| 34 | Argumentation schemes: From genetics to international relations to environmental science policy to AI ethics. Argument and Computation, 2021, 12, 397-416. | 0.7 | 1 |
| 35 | Moral exemplars for the virtuous machine: the clinician's role in ethical artificial intelligence for healthcare. AI and Ethics, 2022, 2, 167-175. | 4.6 | 16 |
| 36 | Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726. | 5.0 | 143 |
| 37 | Ethical AI at Work: The Social Contract for Artificial Intelligence and Its Implications for the Workplace Psychological Contract. , 2021, , 55-72. | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 38 | Accountable Federated Machine Learning in Government: Engineering and Management Insights. Lecture Notes in Computer Science, 2021, , 125-138. | 1.0 | 6 |
| 39 | Towards a framework for certification of reliable autonomous systems. Autonomous Agents and Multi-Agent Systems, 2021, 35, 1. | 1.3 | 37 |
| 40 | A Framework for Ethics in Cyber-Physical-Human Systems. IFAC-PapersOnLine, 2020, 53, 17008-17015. | 0.5 | 12 |
| 41 | Ethical Considerations in User Modeling and Personalization. , 2020, , . | | 1 |
| 42 | Ethical considerations about artificial intelligence for prognostication in intensive care. Intensive Care Medicine Experimental, 2019, 7, 70. | 0.9 | 63 |
| 44 | Engineering Reliable Interactions in the Reality-Artificiality Continuum. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 319, 69-80. | 0.8 | 1 |
| 45 | Opportunities and Risks for Citizen Science in the Age of Artificial Intelligence. Citizen Science: Theory and Practice, 2019, 4, . | 0.6 | 38 |
| 46 | Complex Data: Learning Trustworthily, Automatically, and with Guarantees. , 2021, , . | | 0 |
| 47 | A Layered Framework for Dealing with Dilemmas in Artificial Intelligence Systems. Lecture Notes in Networks and Systems, 2021, , 309-326. | 0.5 | 1 |
| 48 | An Overview of Sensors, Design and Healthcare Challenges in Smart Homes: Future Design Questions. Healthcare (Switzerland), 2021, 9, 1329. | 1.0 | 6 |
| 49 | Introduction to Ambient Intelligence in Internet of Things Environments and Cyber-Physical Systems. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 1-26. | 0.3 | 0 |
| 50 | Enterprise 4.0 Knowledge Management: Standard and Man. Bulletin of Kemerovo State University Series Political Sociological and Economic Sciences, 2020, 2020, 214-221. | 0.1 | 1 |
| 51 | Governance of Ethical and Trustworthy AI Systems: Research Gaps in the ECCOLA Method. , 2021, , . | | 2 |
| 52 | AI Legal Counsel to train and regulate legally constrained Autonomous systems. , 2020, , . | | 0 |
| 53 | AI in the Law: Towards Assessing Ethical Risks. , 2020, , . | | 3 |
| 55 | Artificial Social Ethics: Simulating Culture, Conflict, and Cooperation. , 2020, , . | | 0 |
| 56 | Effective and Trustworthy Implementation of AI Soft Law Governance. IEEE Transactions on Technology and Society, 2021, 2, 168-170. | 2.4 | 5 |
| 57 | Autonomous vehicles and moral judgments under risk. Transportation Research, Part A: Policy and Practice, 2022, 155, 1-10. | 2.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 58 | Machine Learning and Ethics. Acta Neurochirurgica Supplementum, 2022, 134, 251-256. | 0.5 | 4 |
| 59 | Developing future human-centered smart cities: Critical analysis of smart city security, Data management, and Ethical challenges. Computer Science Review, 2022, 43, 100452. | 10.2 | 62 |
| 60 | Automotive in "The Stack": a Cross-sectional View of the Field from Earth, through Platforms and Nonhuman Users to Anti-Users. , 2020, , . | | 2 |
| 61 | Ensuring trustworthy and ethical behaviour in intelligent logical agents. Journal of Logic and Computation, 0, , . | 0.5 | 1 |
| 62 | Deep learning for reliable detection of epileptogenic lesions. , 2022, , 163-175. | | 0 |
| 63 | Science and Technology Parks: A Futuristic Approach. IEEE Access, 2022, 10, 31981-32021. | 2.6 | 4 |
| 65 | The Ethical Governance for the Vulnerability of Care Robots: Interactive-Distance-Oriented Flexible Design. Sustainability, 2022, 14, 2303. | 1.6 | 1 |
| 66 | Preparing to Design Robots for Social Contexts. IEEE Technology and Society Magazine, 2022, 41, 15-17. | 0.6 | 0 |
| 67 | Addictive digital experiences: the influence of artificial intelligence and more-than-human design. , 0, , . | | 1 |
| 68 | AccTEF: A Transparency and Accountability Evaluation Framework for Ontology-Based Systems. International Journal of Semantic Computing, 0, , 1-23. | 0.4 | 1 |
| 69 | Computational ethics. Trends in Cognitive Sciences, 2022, 26, 388-405. | 4.0 | 12 |
| 70 | Towards learning trustworthily, automatically, and with guarantees on graphs: An overview. Neurocomputing, 2022, 493, 217-243. | 3.5 | 11 |
| 71 | A Vision of Applied Ethics in Industrial Cyber-Physical Systems. Studies in Computational Intelligence, 2022, , 319-331. | 0.7 | 3 |
| 72 | Value dimensions of autonomous vehicle implementation through the Ethical Delphi. Cities, 2022, 127, 103741. | 2.7 | 5 |
| 73 | Vision or Threat? Awareness for Dual-Use in the Development of Autonomous Driving. IEEE Transactions on Technology and Society, 2022, 3, 163-174. | 2.4 | 1 |
| 74 | Artificial Intelligence Governance For Businesses. Information Systems Management, 2023, 40, 229-249. | 3.2 | 20 |
| 75 | Roboethics as a Design Challenge: Lessons Learned from the Roboethics to Design and Development Competition. , 2022, , . | | 0 |
| 76 | Ethics and AI Issues: Old Container with New Wine?. Information Systems Frontiers, 2023, 25, 9-28. | 4.1 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 77 | Responsibility in Hybrid Societies: concepts and terms. <i>AI and Ethics</i> , 2023, 3, 25-48. | 4.6 | 2 |
| 78 | From the "rush to ethics" to the "race for governance" in Artificial Intelligence. <i>Information Systems Frontiers</i> , 2023, 25, 71-102. | 4.1 | 12 |
| 79 | A Model for Governing Information Sharing in Smart Assistants. , 2022, , . | | 4 |
| 80 | Characteristics and challenges in the industries towards responsible AI: a systematic literature review. <i>Ethics and Information Technology</i> , 2022, 24, . | 2.3 | 10 |
| 81 | Emerging Technologies, Evolving Threats: Next-Generation Security Challenges. <i>IEEE Transactions on Technology and Society</i> , 2022, 3, 155-162. | 2.4 | 3 |
| 82 | The Unbelievable Pointlessness of Impact. <i>IEEE Technology and Society Magazine</i> , 2022, 41, 7-12. | 0.6 | 1 |
| 83 | Artificial Intelligence and the Political Legitimacy of Global Governance. <i>Political Studies</i> , 0, , 003232172211266. | 2.0 | 5 |
| 84 | Towards the ethical awareness integration on industrial performance management systems. <i>IFAC-PapersOnLine</i> , 2022, 55, 3232-3237. | 0.5 | 0 |
| 85 | Artificial Intelligence, Ethics and Public Policy" The Use of Facial Recognition Systems in Public Transport in the Largest Brazilian Cities. <i>Journal of Service Science and Management</i> , 2022, 15, 551-575. | 0.4 | 0 |
| 86 | New Challenges for Trade Unions in the Face of Algorithmic Management in the Work Environment. <i>Studia Z Zakresu Prawa Pracy I Polityki Społecznej</i> , 2022, 29, 121-143. | 0.1 | 0 |
| 87 | From Pluralistic Normative Principles to Autonomous-Agent Rules. <i>Minds and Machines</i> , 2022, 32, 683-715. | 2.7 | 8 |
| 88 | Validating Non-trivial Semantic Properties of Autonomous Robots. <i>Studies in Applied Philosophy, Epistemology and Rational Ethics</i> , 2022, , 91-104. | 0.2 | 0 |
| 89 | The Different Faces of AI Ethics Across the World: A Principle-to-Practice Gap Analysis. <i>IEEE Transactions on Artificial Intelligence</i> , 2023, 4, 820-839. | 3.4 | 3 |
| 90 | Model Predictive Paradigm with Low Computational Burden Based on Dandelion Optimizer for Autonomous Vehicle Considering Vision System Uncertainty. <i>Mathematics</i> , 2022, 10, 4539. | 1.1 | 5 |
| 91 | Six Human-Centered Artificial Intelligence Grand Challenges. <i>International Journal of Human-Computer Interaction</i> , 2023, 39, 391-437. | 3.3 | 53 |
| 92 | Argumentation-Based Logic for Ethical Decision Making. <i>Studia Humana</i> , 2022, 11, 46-52. | 0.1 | 2 |
| 93 | Explaining Technology We Do Not Understand. <i>IEEE Transactions on Technology and Society</i> , 2023, 4, 34-45. | 2.4 | 7 |
| 94 | Machine Ethics: Do Androids Dream of Being Good People?. <i>Science and Engineering Ethics</i> , 2023, 29, . | 1.7 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 95 | Towards trusting the ethical evolution of autonomous dynamic ecosystems. , 2022, , . | | 0 |
| 96 | The concept of ethical digital identities. , 2022, , . | | 0 |
| 97 | The position of machine translation in translation studies. Translation Spaces(Netherland), 0, , . | 0.8 | 1 |
| 98 | Artificial Intelligence and Public Values: Value Impacts and Governance in the Public Sector. Sustainability, 2023, 15, 4796. | 1.6 | 5 |
| 100 | Formalization of Ethical Decision Making. International Journal of Extreme Automation and Connectivity in Healthcare, 2023, 5, 1-13. | 0.1 | 0 |
| 101 | Robots as moral environments. AI and Society, 0, , . | 3.1 | 0 |
| 102 | AI Value Alignment Problem: The Clear and Present Danger. , 2023, , . | | 0 |
| 105 | Implementing AI Ethics: Making Sense of the Ethical Requirements. , 2023, , . | | 2 |
| 106 | Ethical Biases in Machine Learning-based Filtering of Internet Communications. , 2023, , . | | 0 |
| 107 | AI, Control and Unintended Consequences: The Need for Meta-Values. Philosophy of Engineering and Technology, 2023, , 117-129. | 0.1 | 0 |
| 110 | The AI Evolution in Marketing and Sales: How Social Design Thinking Techniques Can Boost Long-Term AI Strategies in Companies and Regions. Smart Innovation, Systems and Technologies, 2024, , 17-34. | 0.5 | 0 |
| 113 | The Value Alignment Problem: Building Ethically Aligned Machines. , 2023, , 220-233. | | 0 |
| 115 | The Automated Future: How AI and Automation Are Revolutionizing Online Services. , 2023, , . | | 0 |
| 118 | Ethics in Performance Management of Future Industrial Systems: Weak and Strong Views. Studies in Computational Intelligence, 2024, , 457-468. | 0.7 | 0 |