

Table 5: List of selected studies.

| ID | Title | Year |
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| ES01 | Fairness in machine learning: definition, testing, debugging, and application | 2024 |
| ES02 | Envisioning responsible quantum software engineering and quantum artificial intelligence | 2025 |
| ES04 | Algorithmic bias, fairness, and inclusivity: a multilevel framework for justice-oriented AI | 2025 |
| ES10 | Bias recognition and mitigation strategies in artificial intelligence healthcare applications | 2025 |
| ES15 | Towards fair AI: a review of bias and fairness in machine intelligence | 2025 |
| ES20 | Towards AI-Enabled Cyber-Physical Infrastructures—Challenges, Opportunities, and Implications for a Data-Driven eGovernment Theory, Policy, and Practice | 2025 |
| ES22 | Logging requirement for continuous auditing of responsible machine learning-based applications | 2025 |
| ES27 | Navigating Healthcare AI Governance: the Comprehensive Algorithmic Oversight and Stewardship Framework for Risk and Equity | |
| ES31 | Ethical implications of using general-purpose LLMs in clinical settings: a comparative analysis of prompt engineering strategies and their impact on patient safety | |
| ES44 | Fairness-aware machine learning engineering: how far are we? | 2024 |
| ES49 | A comprehensive analysis of gender, racial, and prompt-induced biases in large language models | 2024 |
| ES51 | Guidelines for designing visualization tools for group fairness analysis in binary classification | 2025 |
| ES56 | Pediatrics 4.0: the Transformative Impacts of the Latest Industrial Revolution on Pediatrics | 2025 |
| ES58 | Toward a Responsible Fairness Analysis: From Binary to Multiclass and Multigroup Assessment in Graph Neural Network-Based User Modeling Tasks | 2024 |
| ES67 | A fair individualized polysocial risk score for identifying increased social risk in type 2 diabetes | 2024 |
| ES71 | Human-Centric Multimodal Machine Learning: Recent Advances and Testbed on AI-Based Recruitment | 2023 |
| ES75 | The Wells-Du Bois Protocol for Machine Learning Bias: Building Critical Quantitative Foundations for Third Sector Scholarship | 2022 |
| ES77 | A bias detection tree approach for detecting disparities in a recommendation model's errors | 2022 |
| ES80 | Social norm bias: residual harms of fairness-aware algorithms | 2023 |

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| ES90 | Evaluating causes of algorithmic bias in juvenile criminal recidivism | 2021 |
| ES95 | Fairness in recommender systems: research landscape and future directions | 2023 |
| ES100 | Managing bias and unfairness in data for decision support: a survey of machine learning and data engineering approaches to identify and mitigate bias and unfairness within data management and analytics systems | 2021 |
| ES102 | Users' needs in interactive bias auditing tools introducing a requirement checklist and evaluating existing tools | 2023 |
| ES111 | Unmasking bias in artificial intelligence: a systematic review of bias detection and mitigation strategies in electronic health record-based models | 2024 |
| ES120 | Explainability and Fairness in Machine Learning: Improve Fair End-to-end Lending for Kiva | 2020 |
| ES122 | Ethical AI in Charitable Systems: A Framework for Bias Mitigation in Volunteer Matching | 2025 |
| ES125 | Bias Mitigation Methods: Applicability, Legality, and Recommendations for Development | 2024 |
| ES127 | HIFI: Explaining and Mitigating Algorithmic Bias through the Lens of Game-Theoretic Interactions | 2025 |
| ES130 | Impact of Imputation Strategies on Fairness in Machine Learning | 2022 |
| ES136 | BiasNavi: LLM-Empowered Data Bias Management | 2025 |
| ES138 | "It's Everybody's Role to Speak Up... But Not Everyone Will": Understanding AI Professionals' Perceptions of Accountability for AI Bias Mitigation | 2024 |
| ES143 | A Classification of Feedback Loops and Their Relation to Biases in Automated Decision-Making Systems | 2023 |
| ES146 | EDITS: Modeling and Mitigating Data Bias for Graph Neural Networks | 2022 |
| ES149 | D-hacking | 2024 |
| ES157 | Tiny, Always-on, and Fragile: Bias Propagation through Design Choices in On-device Machine Learning Workflows | 2023 |
| ES160 | Can Fairness be Automated? Guidelines and Opportunities for Fairness-aware AutoML | 2024 |
| ES161 | Fairness Evaluation in Text Classification: Machine Learning Practitioner Perspectives of Individual and Group Fairness | 2023 |
| ES163 | Mitigating Bias in Algorithmic Systems—A Fish-eye View | 2023 |
| ES171 | Fairness in Online Ad Delivery | 2024 |
| ES174 | Fair Graph Mining | 2021 |

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| ES178 | Bias on Demand: A Modelling Framework That Generates Synthetic Data With Bias | 2023 |
| ES180 | FRINGE: context-aware FaiRness engineerING in complex software systEms | 2024 |
| ES183 | Towards an Ontology-Driven Approach to Document Bias | 2025 |
| ES202 | InFoRM: Individual Fairness on Graph Mining | 2020 |
| ES204 | Same Same, But Different: Conditional Multi-Task Learning for Demographic-Specific Toxicity Detection | 2023 |
| ES210 | Auditing for Racial Discrimination in the Delivery of Education Ads | 2024 |
| ES212 | Toward A Two-Sided Fairness Framework in Search and Recommendation | 2023 |
| ES215 | Toward Fair Ultrasound Computing Tomography: Challenges, Solutions and Outlook | 2024 |
| ES220 | Fairness in Ranking, Part II: Learning-to-Rank and Recommender Systems | 2023 |