# Finbarr Murphy

List of Publications by Year
in descending order

| 73 papers | 1,400 citations | 331259 21 h-index | 377514 34 g-index |
|---|---|---|---|
| 77 all docs | 77 docs citations | 77 times ranked | 1470 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | From Traditional to Autonomous Vehicles: A Systematic Review of Data Availability. Transportation Research Record, 2022, 2676, 161-193. | 1.0 | 9 |
| 2 | The risk perception of nanotechnology: evidence from twitter. RSC Advances, 2022, 12, 11021-11031. | 1.7 | 3 |
| 3 | Cyber risk and cybersecurity: a systematic review of data availability. Geneva Papers on Risk and Insurance: Issues and Practice, 2022, 47, 698-736. | 1.1 | 55 |
| 4 | Risk-adequate motor underwriting of automated vehicles: a qualitative evaluation using German focus groups. Environment Systems and Decisions, 2021, 41, 189. | 1.9 | 1 |
| 5 | End-to-End Autonomous Driving Risk Analysis: A Behavioural Anomaly Detection Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1650-1662. | 4.7 | 29 |
| 6 | Smartphone Use While Driving: An Investigation of Young Novice Driver (YND) Behaviour. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 77, 209-220. | 1.8 | 22 |
| 7 | Connected and autonomous vehicle injury loss events: Potential risk and actuarial considerations for primary insurers. Risk Management and Insurance Review, 2021, 24, 5-35. | 0.4 | 6 |
| 8 | A quantitative bow-tie cyber risk classification and assessment framework. Journal of Risk Research, 2021, 24, 1619-1638. | 1.4 | 24 |
| 9 | Regulatory and Technical Constraints: An Overview of the Technical Possibilities and Regulatory Limitations of Vehicle Telematic Data. Sensors, 2021, 21, 3517. | 2.1 | 5 |
| 10 | Data Shepherding in Nanotechnology. The Initiation. Nanomaterials, 2021, 11, 1520. | 1.9 | 8 |
| 11 | Data Shepherding in Nanotechnology. The Exposure Field Campaign Template. Nanomaterials, 2021, 11, 1818. | 1.9 | 9 |
| 12 | A Machine Learning Tool to Predict the Antibacterial Capacity of Nanoparticles. Nanomaterials, 2021, 11, 1774. | 1.9 | 33 |
| 13 | Cars and distraction: How to address the limits of Driver Monitoring Systems and improve safety benefits using evidence from German young drivers. Technology in Society, 2021, 66, 101628. | 4.8 | 14 |
| 14 | Surveillance and privacy â€" Beyond the panopticon. An exploration of 720-degree observation in level 3 and 4 vehicle automation. Technology in Society, 2021, 66, 101667. | 4.8 | 10 |
| 15 | Associations between mobility patterns and COVID-19 deaths during the pandemic: A network structure and rank propagation modelling approach. Array, 2021, 11, 100075. | 2.5 | 5 |
| 16 | Dynamic communication and perception of cyber risk: Evidence from big data in media. Computers in Human Behavior, 2021, 122, 106851. | 5.1 | 4 |
| 17 | A Supervised Machine-Learning Prediction of Textileâ€™s Antimicrobial Capacity Coated with Nanomaterials. Coatings, 2021, 11, 1532. | 1.2 | 6 |
| 18 | ASINA Project: Towards a Methodological Data-Driven Sustainable and Safe-by-Design Approach for the Development of Nanomaterials. Frontiers in Bioengineering and Biotechnology, 2021, 9, 805096. | 2.0 | 15 |

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|---|---------|-----|-----------|
| 19 | Precaution as a Risk in Data Gaps and Sustainable Nanotechnology Decision Support Systems: a Case Study of Nano-Enabled Textiles Production. NanoEthics, 2021, 15, 245-270. | 0.5 | 0 |
| 20 | Artificial intelligence assistants and risk: framing a connectivity risk narrative. AI and Society, 2020, 35, 625-634. | 3.1 | 13 |
| 21 | Autonomous Vehicles and Avoiding the Trolley (Dilemma): Vehicle Perception, Classification, and the Challenges of Framing Decision Ethics. Cybernetics and Systems, 2020, 51, 59-80. | 1.6 | 38 |
| 22 | A new version of the Behaviour of Young Novice Drivers Scale (BYNDS). Insights from a randomised sample of 700 German young novice drivers.. Accident Analysis and Prevention, 2020, 145, 105622. | 3.0 | 10 |
| 23 | Predicting In Vitro Neurotoxicity Induced by Nanoparticles Using Machine Learning. International Journal of Molecular Sciences, 2020, 21, 5280. | 1.8 | 30 |
| 24 | Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. Small, 2020, 16, e2003303. | 5.2 | 28 |
| 25 | Exploring the role of delta-V in influencing occupant injury severities â€" A mediation analysis approach to motor vehicle collisions. Accident Analysis and Prevention, 2020, 142, 105577. | 3.0 | 11 |
| 26 | Reduction of Health Care-Associated Infections (HAIs) with Antimicrobial Inorganic Nanoparticles Incorporated in Medical Textiles: An Economic Assessment. Nanomaterials, 2020, 10, 999. | 1.9 | 21 |
| 27 | Exploring the price of motor vehicle collisions â€" A compensation cost approach. Transportation Research Interdisciplinary Perspectives, 2020, 4, 100097. | 1.6 | 2 |
| 28 | Spatial risk modelling of behavioural hotspots: Risk-aware path planning for autonomous vehicles. Transportation Research, Part A: Policy and Practice, 2020, 134, 152-163. | 2.0 | 18 |
| 29 | Nanotoxicology data for *in silico* tools: a literature review. Nanotoxicology, 2020, 14, 612-637. | 1.6 | 51 |
| 30 | Practices and Trends of Machine Learning Application in Nanotoxicology. Nanomaterials, 2020, 10, 116. | 1.9 | 73 |
| 31 | Driving to a future without accidents? Connected automated vehiclesâ€™ impact on accident frequency and motor insurance risk. Environment Systems and Decisions, 2019, 39, 383-395. | 1.9 | 10 |
| 32 | Artificial Driving Intelligence and Moral Agency: Examining the Decision Ontology of Unavoidable Road Traffic Accidents through the Prism of the Trolley Dilemma. Applied Artificial Intelligence, 2019, 33, 267-293. | 2.0 | 22 |
| 33 | Autonomous Vehicles and Embedded Artificial Intelligence: The Challenges of Framing Machine Driving Decisions. Applied Artificial Intelligence, 2019, 33, 706-731. | 2.0 | 56 |
| 34 | Application of Bayesian networks in determining nanoparticle-induced cellular outcomes using transcriptomics. Nanotoxicology, 2019, 13, 827-848. | 1.6 | 28 |
| 35 | Machine learning prediction of nanoparticle in vitro toxicity: A comparative study of classifiers and ensemble-classifiers using the Copeland Index. Toxicology Letters, 2019, 312, 157-166. | 0.4 | 48 |
| 36 | Using extracted forward rate term structure information to forecast foreign exchange rates. Journal of Empirical Finance, 2019, 53, 1-14. | 0.9 | 1 |

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|---|---------|----|-----------|
| 37 | From semi to fully autonomous vehicles: New emerging risks and ethico-legal challenges for human-machine interactions. Transportation Research Part F: Traffic Psychology and Behaviour, 2019, 63, 153-164. | 1.8 | 48 |
| 38 | The impact of autonomous vehicle technologies on product recall risk. International Journal of Production Research, 2019, 57, 6264-6277. | 4.9 | 16 |
| 39 | Semiautonomous Vehicle Risk Analysis: A Telematicsâ€Based Anomaly Detection Approach. Risk Analysis, 2019, 39, 1125-1140. | 1.5 | 19 |
| 40 | Connected and autonomous vehicles: A cyber-risk classification framework. Transportation Research, Part A: Policy and Practice, 2019, 124, 523-536. | 2.0 | 89 |
| 41 | Applying crash data to injury claims - an investigation of determinant factors in severe motor vehicle accidents. Accident Analysis and Prevention, 2018, 113, 244-256. | 3.0 | 15 |
| 42 | Forecasting implied volatility in foreign exchange markets: a functional time series approach. European Journal of Finance, 2018, 24, 1-18. | 1.7 | 16 |
| 43 | The Essential Elements of a Risk Governance Framework for Current and Future Nanotechnologies. Risk Analysis, 2018, 38, 1321-1331. | 1.5 | 27 |
| 44 | Predicting Nanomaterials toxicity pathways based on genome-wide transcriptomics studies using Bayesian networks. , 2018, , . | | 2 |
| 45 | Reasonable, Adequate and Efficient Allocation of Liability Costs for Automated Vehicles: A Case Study of the German Liability and Insurance Framework. European Journal of Risk Regulation, 2018, 9, 548-563. | 0.8 | 3 |
| 46 | The Toxic Truth About Carbon Nanotubes in Water Purification: a Perspective View. Nanoscale Research Letters, 2018, 13, 183. | 3.1 | 84 |
| 47 | Hazard Screening Methods for Nanomaterials: A Comparative Study. International Journal of Molecular Sciences, 2018, 19, 649. | 1.8 | 18 |
| 48 | Application of Bayesian networks for hazard ranking of nanomaterials to support human health risk assessment. Nanotoxicology, 2017, 11, 123-133. | 1.6 | 60 |
| 49 | The ELD: Applicability to Nanotechnology Risk and the Liability Implications of Environmental Damage. European Journal of Risk Regulation, 2017, 8, 140-157. | 0.8 | 0 |
| 50 | Insuring nanotech requires effective risk communication. Nature Nanotechnology, 2017, 12, 717-719. | 15.6 | 15 |
| 51 | Comparing mental models of prospective users of the sustainable nanotechnology decision support system. Environment Systems and Decisions, 2017, 37, 465. | 1.9 | 10 |
| 52 | Semi-autonomous vehicle motor insurance: A Bayesian Network risk transfer approach. Transportation Research Part C: Emerging Technologies, 2017, 82, 124-137. | 3.9 | 34 |
| 53 | Sustainable nanotechnology decision support system: bridging risk management, sustainable innovation and risk governance. Journal of Nanoparticle Research, 2016, 18, 1. | 0.8 | 50 |
| 54 | Jumps in Euribor and the effect of ECB monetary policy announcements. Environment Systems and Decisions, 2016, 36, 142-157. | 1.9 | 2 |

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|---|---------|-----|-----------|
| 55 | A Tractable Method for Measuring Nanomaterial Risk Using Bayesian Networks. Nanoscale Research Letters, 2016, 11, 503. | 3.1 | 28 |
| 56 | Engineered nanomaterials: risk perception, regulation and insurance. Journal of Risk Research, 2016, 19, 444-460. | 1.4 | 10 |
| 57 | Interest rate dynamics and volatility transmission in the European short term interest rate market. Journal of Economics and Finance, 2016, 40, 754-772. | 0.8 | 3 |
| 58 | Nanomaterial and Nanotechnology Firms: A Typology. Innovation, Technology and Knowledge Management, 2016, , 9-28. | 0.4 | 0 |
| 59 | A Bayesian Regression Methodology for Correlating Noisy Hazard and Structural Alert Parameters of Nanomaterials. Innovation, Technology and Knowledge Management, 2016, , 197-218. | 0.4 | 0 |
| 60 | Impact and effectiveness of risk mitigation strategies on the insurability of nanomaterial production: evidences from industrial case studies. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2015, 7, 839-855. | 3.3 | 23 |
| 61 | The Role of Market Participants in Agricultural Futures Markets. Outlook on Agriculture, 2015, 44, 97-108. | 1.8 | 5 |
| 62 | Empowering citizens in international governance of nanotechnologies. Journal of Nanoparticle Research, 2015, 17, 215. | 0.8 | 7 |
| 63 | Anticipatory Ethics and Governance (AEG): Towards a Future Care Orientation Around Nanotechnology. NanoEthics, 2015, 9, 123-136. | 0.5 | 17 |
| 64 | The valuation and information content of options on crude-oil futures contracts. Review of Derivatives Research, 2015, 18, 95-106. | 0.6 | 6 |
| 65 | An analysis of implied volatility jump dynamics: Novel functional data representation in crude oil markets. North American Journal of Economics and Finance, 2015, 33, 199-216. | 1.8 | 7 |
| 66 | The forecasting efficiency of the dynamic Nelson Siegel model on credit default swaps. Research in International Business and Finance, 2014, 30, 348-368. | 3.1 | 10 |
| 67 | Outperformance in exchange-traded fund pricing deviations: Generalized control of data snooping bias. Journal of Financial Markets, 2014, 19, 86-109. | 0.7 | 13 |
| 68 | The insurability of nanomaterial production risk. Nature Nanotechnology, 2013, 8, 222-224. | 15.6 | 35 |
| 69 | The link between jet fuel prices, carbon credits and airline firm value. Journal of Energy Markets, 2013, 6, 83-97. | 0.2 | 4 |
| 70 | A vector-autoregression analysis of credit and liquidity factor dynamics in US LIBOR and Euribor swap markets. Journal of Economics and Finance, 2012, 36, 351-370. | 0.8 | 1 |
| 71 | Financial Globalisation, State Autonomy and Modern Financial Instruments: The Case of Brazil. Globalizations, 2009, 6, 433-449. | 1.9 | 2 |
| 72 | Forecasting Implied Volatility in Foreign Exchange Markets: A Robust Functional Linear Model Approach. SSRN Electronic Journal, 0, , . | 0.4 | 0 |

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|---|---------|----|-----------|
| 73 | Extracting Forward Rate Term Structure Information in Foreign Exchange. SSRN Electronic Journal, 0, , . | 0.4 | 0 |