

Professor John McCall, Robert Gordon University, UK

John McCall is a Professor of Computing and Director of the National Subsea Centre at Robert Gordon University. He has researched in machine learning, search and optimisation for over 30 years, making novel contributions to a range of nature-inspired optimisation algorithms and predictive machine learning methods, including EDA, PSO, ACO and GA. He has 170+ peer-reviewed publications in books, international journals and conferences. These have received 3300+ citations with an h-index of 26.

John specialises in industrially applied optimization and decision support (Industry 4.0), working with major international companies in energy and telecommunications as well as a diverse range of SMEs. Major application areas for this research are: vehicle logistics, fleet planning and transport systems modelling; predictive modelling and maintenance in energy systems; and decision support in industrial operations management. This work has attracted £Ms in direct industrial funding and grants from UK and EU research councils and technology centres.

John is a founding director of Celerum, which specialises in freight logistics and of PlanSea Solutions, which focuses on marine logistics planning.

John is a member of ACM and IEEE. He has served as a member of the IEEE Evolutionary Computing Technical Committee, an on the Editorial Boards of IEEE Computational Intelligence Magazine, IEEE Systems, Man and Cybernetics Journal, and Journal Complex and Intelligent Systems. He frequently organises workshops and special sessions at leading international conferences, including most recently Evolutionary Computation and Explainability (ECXAI) at ACM GECCO (2022 – 24).