Rong Qu

PhD, BSc in Computer Science, IEEE Senior Member

PROFILE SUMMARY

Research
- 88/61 peer-reviewed international journal/conference papers, **Google Scholar citation: 10,381**, h-index: 44
- **UK national ranking 364th Computer Scientist** by Research.com
- Leading author of **top 0.1% and 1% cited articles** in Computer Science by ISI Essential Science Indicators
- Co-author and co-editor of **two books** in artificial intelligence and machine learning algorithms at Springer

Funding
- **Principal investigator / Co-investigator** on projects of a total £6.4million by EPSRC, EU, Innovate UK, Royal Society, etc.
- **2022 Leverhulme Trust Senior Research Fellow, The Royal Society**

Supervision
- **Principal supervisor** of 11 PhD students graduated since 2010
- **Principal/co- supervisor** of eight Postdoc Researchers in seven external projects

Academic esteem
- **JSPS Invited Fellow** at Computational Intelligence Labo. at Osaka Prefecture University, Japan
- **Guest editor** of six special issues at top journals in Evolutionary Computation and Machine Intelligence
- **Associate Editor** at five international leading journals in Computational Intelligence and Operational Research
- **IEEE Senior Member** since 2012
- **Chair and co-chair** of more than 10 Symposiums at IEEE Computational Intelligence Society
- **Co-organiser** of more than 30 international events/conferences
- **External PhD examiner** for 12 PhD theses since 2013

Teaching
- **Course Director** of seven Undergraduate and Postgraduate Taught courses, Aug 2006 – Jul 2020
- **PGR Director**, School of Computer Science, Aug 2020 – present
- Course lead/convenor of **nine courses in artificial intelligence** since 2005
- Invited **six external courses** on Artificial Intelligence algorithms since 2007 in China, Germany, Japan and Turkey

UNIVERSITY & ACADEMIC SERVICE

JSPS Invited Fellow at Computational Intelligence Labo. at Osaka Prefecture University, Dec 2016 - Jan 2017

Journal Area Editor
- Applications of Artificial Intelligence (EAAI) Journal (2022-present)
- Journal of Information and Intelligence (2022-present)
- Journal of the Operational Research Society (2020-present)
- IEEE Transactions on Evolutionary Computation (202-present)
- PeerJ Computer Science (2015-present)
- IEEE Computational Intelligence Magazine (2016-present)
- Journal of Scheduling (2013-2015)

Guest editor
- Special Issue of Journal of Scheduling on Artificial Intelligence Planning and Scheduling, 12(3), June, 2009
- Special Issue of "Multi-objective Evolutionary Optimization in Machine Learning", IEEE Transactions on Evolutionary Computation, forthcoming. Leading journal on Evolutionary Computation, Impact Factor: 16.5
- Special issue of "Models of Representation in Computational Intelligence", IEEE Computational Intelligence Magazine (IEEE CIM), forthcoming. Impact factor: 5.71
- Special issue of "Smart Cities: Urban Profiling with Artificial Intelligence and Big Data", PeerJ Computer Science, forthcoming, Impact factor: 2.41
- Special issue of "Automated Design of Machine Learning and Search Algorithms", IEEE Computational Intelligence Magazine, 13(2), June 2018. Leading journal on Computational Intelligence, Impact factor: 5.71
- Special issue of "Artificial Intelligence Planning and Scheduling", Journal of Scheduling, 12(3), June 2009

Chair / Vice Chair at IEEE Computational Intelligence Society

- Vice Chair of Evolutionary Computation Technical Committee (2019-present)
- Vice Chair of Intelligent Systems Applications Technical Committee (2015-2018)
- Task Force on Intelligent Systems in Healthcare (2018-present)
- Task Force on of Evolutionary Scheduling and Optimisation (2006-2009)
- Co-founder and Chair of Task Force on Hyper-heuristics (2013-2018)
- Co-founder and Chair/Vice Chair of Task Force on Evolutionary Scheduling and Combinatorial Optimisation
- Chair of Task Force on Timetabling and Scheduling and Combinatorial Optimisation (2007-2009)
- Member of IEEE Women in Computational Subcommittee (2021-present)

Other Duties
- Co-founder the IEEE Symposium Series on Computational Intelligence in Scheduling (IEEE CISched) 2009-2017
- Co-founder the IEEE Symposium Series on Evolutionary Scheduling and Combinatorial Optimisation since 2019
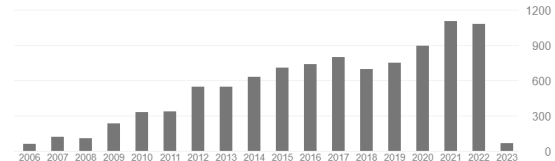
Grants

- 2022 Royal Society Leverhulme Trust Senior Research Fellowship, which is awarded to only seven researchers across all disciplines each year in the UK.
- Principal Investigator at the University of Nottingham in ENLIVEN, a major grant of £2.2M at EU H2020, supervising two PDRAs, collaborating within a consortium of 10 participating countries across Europe and Australia
- Co-Investigator in two major EPSRC grants of a value of £1M and £2.66M, respectively, led three research themes and supervised two PDRAs and two PhD students to completion, leading to 11 joint papers, four among the top 10% cited.
- Knowledge Base Supervisor and Academic Lead, respectively, in two KTP projects of a total value of £206k, leading to optimisation algorithms deployed at two SMEs, namely Webroster Ltd and Midland Software Ltd.
- Co-Investigator or academic collaborator in five joint grants at UNNC, of a total value of £230k, supervising/co-supervising PhD students to deploy optimisation solutions for Ningbo Port, reducing their fleet routing distance by 8%.

Research

In total 88 peer-reviewed papers at international journals, 31 of which ranked the top 0.1%, 1% or 10% cited in Computer Science by the ISI Essential Science Indicators.

Google Scholar Citations

	All	Since 2018
Citations	10,381	4,949
h-index	44	32
i10-index	110	72

Awards
- E.K. Burke, B. MacCarthy, S. Petrovic, **R. Qu†**. Structured Cases in Case-Based Reasoning-Re-using and Adapting Cases for Timetabling Problems. **Best technical papers** at *ES'1999*, selected in a special issue at Knowledge Based System.
- H. Xing, **R. Qu**, G. Kendall, R. Bai. A Path-Oriented Encoding Evolutionary Algorithm for Network Encoding Resource Optimisation, JORS, 65: 1261-1277, 2014. **Ten influential articles** at JORS, November 2013
- E.K. Burke, B. McCollum, A. Meisels, S. Petrovic, **R. Qu†**, A Graph-Based Hyper-Heuristic for Educational Timetabling Problems, EJOR, 176: 177-192, 2007, **2007-2011 Five Year Top Cited Article** Award at EJOR
- E. K. Burke, M. Gendreau, M. Hyde, G. Kendall, G. Ochoa, E. Ozcan, **R. Qu**, Hyper-heuristics: A Survey of the State of the Art, Journal of the Operational Research Society, 64: 1695-1724, 2013. **Ten Influential Articles** at JORS (accessible in November 2013), **Top 0.1% cited**

PERSONAL INFORMATION

Professor Aug 2023 –
Associate Professor Aug 2013 – Jul 2023
Lecturer May 2005 – Jul 2013
Post-Doctoral Research Associate Aug 2001 – May 2005
School of Computer Science, The University of Nottingham, UK, NG8 1BB

PhD in Computer Science, December 2002
University of Nottingham, Nottingham, U.K.

BSc in Computer Science, July 1996, Honours
XiDian University, Xi'an, Shaanxi, 710071, China