

# Richard Y K Fung

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3935114/publications.pdf>

Version: 2024-02-01

113  
papers

3,501  
citations

201658

27  
h-index

155644

55  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2079  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Berth allocation considering fuel consumption and vessel emissions. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2011, 47, 1021-1037.                           | 7.4 | 205       |
| 2  | An intelligent hybrid system for customer requirements analysis and product attribute targets determination. <i>International Journal of Production Research</i> , 1998, 36, 13-34.              | 7.5 | 171       |
| 3  | Rating technical attributes in fuzzy QFD by integrating fuzzy weighted average method and fuzzy expected value operator. <i>European Journal of Operational Research</i> , 2006, 174, 1553-1566. | 5.7 | 144       |
| 4  | Dynamic shopfloor scheduling in multi-agent manufacturing systems. <i>Expert Systems With Applications</i> , 2006, 31, 486-494.  | 7.6 | 135       |
| 5  | Integrated process planning and scheduling by an agent-based ant colony optimization. <i>Computers and Industrial Engineering</i> , 2010, 59, 166-180.   | 6.3 | 134       |
| 6  | Identifying helpful online reviews: A product designer's perspective. <i>CAD Computer Aided Design</i> , 2013, 45, 180-194.  | 2.7 | 133       |
| 7  | A new approach to quality function deployment planning with financial consideration. <i>Computers and Operations Research</i> , 2002, 29, 1447-1463.   | 4.0 | 132       |
| 8  | Fuzzy regression-based mathematical programming model for quality function deployment. <i>International Journal of Production Research</i> , 2004, 42, 1009-1027.                                | 7.5 | 130       |
| 9  | Estimating the functional relationships for quality function deployment under uncertainties. <i>Fuzzy Sets and Systems</i> , 2006, 157, 98-120.  | 2.7 | 121       |
| 10 | Product design resources optimization using a non-linear fuzzy quality function deployment model. <i>International Journal of Production Research</i> , 2002, 40, 585-599.                       | 7.5 | 112       |
| 11 | An intelligent information framework relating customer requirements and product characteristics. <i>Computers in Industry</i> , 2001, 44, 51-65.   | 9.9 | 99        |
| 12 | Integrated process planning and scheduling/rescheduling—an agent-based approach. <i>International Journal of Production Research</i> , 2006, 44, 3627-3655.                                      | 7.5 | 96        |
| 13 | Vehicle routing problem with fuzzy time windows. <i>Fuzzy Sets and Systems</i> , 2009, 160, 683-695.   | 2.7 | 92        |
| 14 | Fuzzy expected value modelling approach for determining target values of engineering characteristics in QFD. <i>International Journal of Production Research</i> , 2005, 43, 3583-3604.          | 7.5 | 91        |
| 15 | Cost engineering with quality function deployment. <i>Computers and Industrial Engineering</i> , 1998, 35, 587-590.  | 6.3 | 74        |
| 16 | Two-phase heuristic algorithms for full truckloads multi-depot capacitated vehicle routing problem in carrier collaboration. <i>Computers and Operations Research</i> , 2010, 37, 950-959.       | 4.0 | 74        |
| 17 | An agent-based negotiation approach to integrate process planning and scheduling. <i>International Journal of Production Research</i> , 2006, 44, 1331-1351.                                     | 7.5 | 71        |
| 18 | Multiproduct aggregate production planning with fuzzy demands and fuzzy capacities. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2003, 33, 302-313.    | 2.9 | 70        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Modelling of quality function deployment planning with resource allocation. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2003, 14, 247-255.                                    | 2.1 | 64        |
| 20 | Fuzzy formulation for multi-product aggregate production planning. Production Planning and Control, 2000, 11, 670-676.   | 8.8 | 62        |
| 21 | A column-generation-based heuristic algorithm for solving operating theater planning problem under stochastic demand and surgery cancellation risk. International Journal of Production Economics, 2014, 158, 28-36. | 8.9 | 60        |
| 22 | Product Development Cost Estimation in Mass Customization. IEEE Transactions on Engineering Management, 2007, 54, 29-40.   | 3.5 | 55        |
| 23 | Approach of just-in-time distribution requirements planning for supply chain management. International Journal of Production Economics, 2004, 91, 101-107.   | 8.9 | 51        |
| 24 | A multiagent supply chain planning and coordination architecture. International Journal of Advanced Manufacturing Technology, 2005, 25, 811-819.   | 3.0 | 47        |
| 25 | Extension of a hybrid Genetic Algorithm for nonlinear programming problems with equality and inequality constraints. Computers and Operations Research, 2002, 29, 261-274.   | 4.0 | 44        |
| 26 | Development of Parking Demand Models in Hong Kong. Journal of the Urban Planning and Development Division, ASCE, 2000, 126, 55-74.   | 1.7 | 37        |
| 27 | A fuzzy expected value-based goal programming model for product planning using quality function deployment. Engineering Optimization, 2005, 37, 633-645.   | 2.6 | 36        |
| 28 | Object-Oriented Petri Nets with Changeable Structure (OPNs-CS) for Production System Modelling. International Journal of Advanced Manufacturing Technology, 1999, 15, 445-459.                                       | 3.0 | 32        |
| 29 | Fuzzy modelling and simulation for aggregate production planning. International Journal of Systems Science, 2003, 34, 661-673.   | 5.5 | 27        |
| 30 | A multi-stage methodology for virtual cell formation oriented agile manufacturing. International Journal of Advanced Manufacturing Technology, 2008, 36, 798-810.  | 3.0 | 27        |
| 31 | A memetic algorithm for the open capacitated arc routing problem. Transportation Research, Part E: Logistics and Transportation Review, 2013, 50, 53-67.   | 7.4 | 27        |
| 32 | Model and method based on GA for nonlinear programming problems with fuzzy objective and resources. International Journal of Systems Science, 1998, 29, 907-913.   | 5.5 | 25        |
| 33 | Development of a dynamic data interchange scheme to support product design in agile manufacturing. International Journal of Production Economics, 2004, 87, 295-308.   | 8.9 | 25        |
| 34 | A SCATTER SEARCH FOR MULTI-DEPOT VEHICLE ROUTING PROBLEM WITH WEIGHT-RELATED COST. Asia-Pacific Journal of Operational Research, 2011, 28, 323-348.  | 1.3 | 25        |
| 35 | A mixed integer linear programming solution for single hoist multi-degree cyclic scheduling with reentrance. Engineering Optimization, 2014, 46, 704-723.  | 2.6 | 25        |
| 36 | Temporized coloured Petri nets with changeable structure (CPN-CS) for performance modelling of dynamic production systems. International Journal of Production Research, 2000, 38, 1917-1945.                        | 7.5 | 24        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Principles of deflection-curvature measurement. Measurement Science and Technology, 2001, 12, 1983-1989.  | 2.6 | 24        |
| 38 | Colored Petri Nets with changeable structures (CPN-CS) and their applications in modeling one-of-a-kind production (OKP) systems. Computers and Industrial Engineering, 2001, 41, 279-308.                        | 6.3 | 23        |
| 39 | Fuzzy rule sets for enhancing performance in a supply chain network. Industrial Management and Data Systems, 2008, 108, 947-972.  | 3.7 | 23        |
| 40 | Adaptive dynamic programming algorithms for sequential appointment scheduling with patient preferences. Artificial Intelligence in Medicine, 2015, 63, 33-40.   | 6.5 | 21        |
| 41 | Formulation of general possibilistic linear programming problems for complex industrial systems. Fuzzy Sets and Systems, 2001, 119, 41-48.  | 2.7 | 20        |
| 42 | A virtual case benchmarking scheme for vendors' performance assessment. Benchmarking, 2005, 12, 61-80.  | 4.6 | 20        |
| 43 | Multi-objective optimal cross-training configuration models for an assembly cell using non-dominated sorting genetic algorithm-II. International Journal of Computer Integrated Manufacturing, 2012, 25, 981-995. | 4.6 | 20        |
| 44 | Dynamic appointment scheduling with patient preferences and choices. Industrial Management and Data Systems, 2015, 115, 700-717.  | 3.7 | 20        |
| 45 | An adaptive agile manufacturing control infrastructure based on TOPNs-CS modelling. International Journal of Advanced Manufacturing Technology, 2003, 22, 191-215.  | 3.0 | 19        |
| 46 | Computer-Aided Customer Interface for Rapid Product Development. International Journal of Advanced Manufacturing Technology, 2003, 21, 743-753.   | 3.0 | 18        |
| 47 | Modelling of semiconductor wafer fabrication systems by extended object-oriented Petri nets. International Journal of Production Research, 2005, 43, 471-495.   | 7.5 | 18        |
| 48 | Performance modeling, real-time dispatching and simulation of wafer fabrication systems using timed extended object-oriented Petri nets. Computers and Industrial Engineering, 2009, 56, 121-137.                 | 6.3 | 18        |
| 49 | Approximate dynamic programming approaches for appointment scheduling with patient preferences. Artificial Intelligence in Medicine, 2018, 85, 16-25.   | 6.5 | 18        |
| 50 | Modeling of large-scale complex re-entrant manufacturing systems by extended object-oriented Petri nets. International Journal of Advanced Manufacturing Technology, 2005, 27, 190-204.                           | 3.0 | 17        |
| 51 | Design of maintenance system in MRPII. Journal of Quality in Maintenance Engineering, 2000, 6, 177-191.   | 1.7 | 16        |
| 52 | Adaptive production scheduling of virtual production systems using object-oriented Petri nets with changeable structure. International Journal of Production Research, 2002, 40, 1759-1785.                       | 7.5 | 16        |
| 53 | Industrial waste recycling strategies optimization problem: mixed integer programming model and heuristics. Engineering Optimization, 2008, 40, 1085-1100.  | 2.6 | 16        |
| 54 | An immune-genetic algorithm for introduction planning of new products. Computers and Industrial Engineering, 2009, 56, 902-917.   | 6.3 | 16        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Supply chain workflow modelling using XML-formatted modular petri nets. International Journal of Advanced Manufacturing Technology, 2003, 22, 587-601.  | 3.0 | 15        |
| 56 | An available-to-promise decision support system for a multi-site make-to-order production system. International Journal of Production Research, 2014, 52, 4253-4266.  | 7.5 | 15        |
| 57 | Simulation-Based Optimization for Surgery Scheduling in Operation Theatre Management Using Response Surface Method. Journal of Medical Systems, 2015, 39, 159.  | 3.6 | 15        |
| 58 | Comparison of information security decisions under different security and business environments. Journal of the Operational Research Society, 2018, 69, 747-761.  | 3.4 | 14        |
| 59 | An Investigation of Stochastic Analysis of Flexible Manufacturing Systems Simulation. International Journal of Advanced Manufacturing Technology, 1999, 15, 244-250.  | 3.0 | 13        |
| 60 | Performance Modelling of Complex Dynamic Production Systems Using Temporised Object-Oriented Petri Nets with Changeable Structure (TOPNs-CS). International Journal of Advanced Manufacturing Technology, 2000, 16, 521-536.    | 3.0 | 13        |
| 61 | (T, S) policy for coordinated inventory replenishment systems under compound Poisson demands. Production Planning and Control, 2001, 12, 575-583.   | 8.8 | 13        |
| 62 | A Framework of Product Styling Platform Approach: Styling as Intangible Modules. Concurrent Engineering Research and Applications, 2004, 12, 89-103.  | 3.2 | 13        |
| 63 | Kinematic templates. , 2008, , .  |     | 13        |
| 64 | A human - computer interactive approach based on activity - section analysis for BPR. Production Planning and Control, 2000, 11, 789-796.   | 8.8 | 12        |
| 65 | A quality-engineering-based approach for conceptual product design. International Journal of Advanced Manufacturing Technology, 2007, 32, 1064-1073.  | 3.0 | 12        |
| 66 | An agent-based infrastructure for virtual enterprises using Web-Services standards. International Journal of Advanced Manufacturing Technology, 2008, 39, 612-622.  | 3.0 | 12        |
| 67 | Synchronization of inventory and transportation under flexible vehicle constraint: A heuristics approach using sliding windows and hierarchical tree structure. European Journal of Operational Research, 2009, 192, 824-836.   | 5.7 | 12        |
| 68 | Optimal K-unit cycle scheduling of two-cluster tools with residency constraints and general robot moving times. Journal of Scheduling, 2016, 19, 165-176.   | 1.9 | 12        |
| 69 | Modelling approach and behaviour analysis of manufacturing resources in virtual cellular manufacturing systems using resource element concept. International Journal of Computer Integrated Manufacturing, 2011, 24, 1168-1182. | 4.6 | 11        |
| 70 | Stochastic optimization model for order acceptance with multiple demand classes and uncertain demand/supply. Engineering Optimization, 2014, 46, 824-841.   | 2.6 | 11        |
| 71 | Dynamic scheduling of photolithography process based on Kohonen neural network. Journal of Intelligent Manufacturing, 2015, 26, 73-85.  | 7.3 | 11        |
| 72 | The order and transshipment decisions in a two-location inventory system with demand forecast updates. Computers and Industrial Engineering, 2019, 135, 53-66.  | 6.3 | 11        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Petri Net-based workflow management systems for in-process control in a plastic processing plant. Journal of Materials Processing Technology, 2003, 139, 302-309.   | 6.3 | 10        |
| 74 | A hybrid control architecture and coordination mechanism in virtual manufacturing enterprise. International Journal of Production Research, 2008, 46, 3641-3663.  | 7.5 | 10        |
| 75 | THE HONG KONG PARKING DEMAND STUDY.. Proceedings of the Institution of Civil Engineers: Transport, 1998, 129, 218-227.  | 0.6 | 9         |
| 76 | New product introduction planning using a 0-1 semi-infinite programming model. Production Planning and Control, 2005, 16, 12-20.  | 8.8 | 9         |
| 77 | The infrastructure of the timed EOPNs-based multiple-objective real-time scheduling system for 300mm wafer fab. International Journal of Production Research, 2007, 45, 5017-5056.                                  | 7.5 | 9         |
| 78 | An active styling platform for designing and developing product families. Journal of Intelligent Manufacturing, 2007, 18, 47-58.  | 7.3 | 9         |
| 79 | An option-based hedging mechanism for managing the risk of overbooking in parallel airline alliances. Transportation Research, Part E: Logistics and Transportation Review, 2014, 70, 146-162.                      | 7.4 | 8         |
| 80 | An Integer Programming Formulation for Outpatient Scheduling with Patient Preference. Industrial Engineering and Management Systems, 2014, 13, 193-202.   | 0.4 | 8         |
| 81 | A multi-agent system to support heuristic-based dynamic manufacturing rescheduling. Intelligent Decision Technologies, 2013, 7, 197-211.  | 0.9 | 7         |
| 82 | Automatic Modelling of One-of-a-Kind Production Systems by Temporised Object-Oriented Petri Nets with Changeable Structure (TOPNs-CS). International Journal of Advanced Manufacturing Technology, 2003, 21, 45-65. | 3.0 | 6         |
| 83 | Optimal Multi-Degree Cyclic Solution of Multi-Hoist Scheduling Without Overlapping. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1064-1074.   | 5.2 | 6         |
| 84 | A Multi-Agent System for Dynamic Integrated Process Planning and Scheduling Using Heuristics. Lecture Notes in Computer Science, 2012, , 309-318.   | 1.3 | 6         |
| 85 | Rapid one-of-a-kind product development via the Internet: a literature review of the state-of-the-art and a proposed platform. International Journal of Production Research, 2003, 41, 4257-4298.                   | 7.5 | 6         |
| 86 | Stable factorized quasi-Newton methods for nonlinear least-squares problems. Journal of Computational and Applied Mathematics, 2001, 129, 1-14.   | 2.0 | 5         |
| 87 | Optimal Ordering and Pricing Policies for Seasonal Products: Impacts of Demand Uncertainty and Capital Constraint. Discrete Dynamics in Nature and Society, 2016, 2016, 1-13.                                       | 0.9 | 5         |
| 88 | An XML-based real-time quality measurement scheme. Industrial Management and Data Systems, 2004, 104, 505-512.  | 3.7 | 4         |
| 89 | A mixed integer linear programming approach for multi-degree cyclic multi-hoist scheduling problems without overlapping. , 2013, , .  |     | 4         |
| 90 | Comparison of Traditional and Open-Access Appointment Scheduling for Exponentially Distributed Service Time. Journal of Healthcare Engineering, 2015, 6, 345-376.   | 1.9 | 4         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | EMC environmental survey of railway systems. , 2018, , .  |     | 4         |
| 92  | Rapid reconfiguration of job shop production control system based on soft components technology. International Journal of Advanced Manufacturing Technology, 2006, 30, 1154-1164.     | 3.0 | 3         |
| 93  | Design and analysis of optimal incentive contracts between fourth-party and third-party logistics providers. , 2012, , .  |     | 3         |
| 94  | Quality Investing and Pricing Strategies by Startups: Impacts of Demand Uncertainties and Capital Constraint. Discrete Dynamics in Nature and Society, 2018, 2018, 1-13.              | 0.9 | 3         |
| 95  | Model-Based Test Suite Reduction with Concept Lattice. , 2008, , .  |     | 2         |
| 96  | A multi-depot vehicle routing problem with weight-related costs. , 2009, , .  |     | 2         |
| 97  | Available-to-promise model for a multi-site supply chain. , 2012, , .   |     | 2         |
| 98  | Knowledge-Centric Information Security. , 2008, , .   |     | 1         |
| 99  | Background analysis for the application of EOQ model in a three-stage steel roller production system with deterministic demands and returns. , 2008, , .                              |     | 1         |
| 100 | An Incremental Approach for Model-Based Test Suite Reduction Using Formal Concept Analysis. , 2009, , .   |     | 1         |
| 101 | Chinese MPEG-21 Rights Expression Language: Enhancing Digital Rights Management Adoption to Digital Libraries in Hong Kong. , 2009, , .   |     | 1         |
| 102 | An events-driven scheduling algorithm for two-cluster tools with processing time windows. , 2011, , .   |     | 1         |
| 103 | A dynamic scheduling algorithm for single-arm two-cluster tools with flexible processing times. Engineering Optimization, 2018, 50, 329-346.  | 2.6 | 1         |
| 104 | On equilibrium performance assurance with costly monitoring. Expert Systems With Applications, 2018, 110, 93-105.   | 7.6 | 1         |
| 105 | Optimizing truck scheduling in a cross-docking system with preemption and unloading/loading sequence constraint. , 2018, , .  |     | 1         |
| 106 | Application of Formal Concept Analysis in Model-Based Testing. Communications in Computer and Information Science, 2009, , 110-123.   | 0.5 | 1         |
| 107 | Multiproduct aggregate production planning with fuzzy demands and fuzzy capacities. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 663-663. | 2.9 | 0         |
| 108 | Design Preference Centered Review Recommendation: A Similarity Learning Approach. , 2011, , .   |     | 0         |

| #   | ARTICLE  | IF | CITATIONS |
|-----|--|----|-----------|
| 109 | The development of a supply chain model for tourism crisis management. , 2014, , .                     |    | 0         |
| 110 | Optimal Scheduling of the Reentrant Multi-Degree Cyclic Multi-Hoist Scheduling Problem. , 2019, , .    |    | 0         |
| 111 | KNOWLEDGE SECURITY FOR HOSPITALITY INDUSTRY. , 2010, , .   |    | 0         |
| 112 | A Framework of Product Styling Platform Using Case-based Styling Indexing. , 2006, , 209-218.          |    | 0         |
| 113 | A Genetic Algorithm for the Batch Scheduling with Sequence-Dependent Setup Times. , 2006, , 1137-1144. |    | 0         |