# Petr Ekel

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 91<br>papers | 1,482<br>citations | 304602<br>22<br>h-index | 360920<br>35<br>g-index |
| 105<br>all docs | 105<br>docs citations | 105<br>times ranked | 857<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | A flexible consensus scheme for multicriteria group decision making under linguistic assessments. Information Sciences, 2010, 180, 1075-1089. | 4.0 | 197 |
| 2 | A dynamic consensus scheme based on a nonreciprocal fuzzy preference relation modeling. Information Sciences, 2012, 211, 1-17. | 4.0 | 76 |
| 3 | Fuzzy Set Based Consensus Schemes for Multicriteria Group Decision making Applied to Strategic Planning. Group Decision and Negotiation, 2012, 21, 153-183. | 2.0 | 74 |
| 4 | A general approach to solving a wide class of fuzzy optimization problems. Fuzzy Sets and Systems, 1998, 97, 49-66. | 1.6 | 66 |
| 5 | Fuzzy sets and models of decision making. Computers and Mathematics With Applications, 2002, 44, 863-875. | 1.4 | 66 |
| 6 | A benefit-to-cost ratio based approach for portfolio selection under multiple criteria with incomplete preference information. Information Sciences, 2021, 545, 487-498. | 4.0 | 54 |
| 7 | Delay-dependent robust $H_\infty$ control of uncertain linear systems with lumped delays. IET Control Theory and Applications, 2005, 152, 27-33. | 1.7 | 46 |
| 8 | Multicriteria analysis in decision making under information uncertainty. Applied Mathematics and Computation, 2008, 200, 501-516. | 1.4 | 46 |
| 9 | Algorithms of discrete optimization and their application to problems with fuzzy coefficients. Information Sciences, 2006, 176, 2846-2868. | 4.0 | 42 |
| 10 | A new fault classification approach applied to Tennessee Eastman benchmark process. Applied Soft Computing Journal, 2016, 49, 676-686. | 4.1 | 38 |
| 11 | Multiobjective and multiattribute decision making in a fuzzy environment and their power engineering applications. Information Sciences, 2016, 361-362, 100-119. | 4.0 | 36 |
| 12 | Decision making in fuzzy environment and multicriteria power engineering problems. International Journal of Electrical Power and Energy Systems, 2011, 33, 623-632. | 3.3 | 32 |
| 13 | Multicriteria decision making under conditions of uncertainty in application to multiobjective allocation of resources. Information Fusion, 2019, 49, 249-261. | 11.7 | 32 |
| 14 | Delay-dependent robust $H_\infty$ control of uncertain linear systems with time-varying delays. Computers and Mathematics With Applications, 2005, 50, 13-32. | 1.4 | 30 |
| 15 | Fuzzy set based models and methods of multicriteria group decision making. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e409-e419. | 0.6 | 29 |
| 16 | Box-triangular multiobjective linear programs for resource allocation with application to load management and energy market problems. Mathematical and Computer Modelling, 2003, 37, 1-17. | 2.0 | 28 |
| 17 | On multicriteria decision making under conditions of uncertainty. Information Sciences, 2015, 324, 44-59. | 4.0 | 28 |
| 18 | Asymptotic stability analysis in uncertain multi-delayed state neural networks via Lyapunov–Krasovskii theory. Mathematical and Computer Modelling, 2007, 45, 1350-1362. | 2.0 | 26 |

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| 19 | Methods of decision making in fuzzy environment and their applications. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 979-990. | 0.6 | 24 |
| 20 | Decision making in a fuzzy environment and its application to multicriteria power engineering problems. Nonlinear Analysis: Hybrid Systems, 2007, 1, 527-536. | 2.1 | 24 |
| 21 | Synthetic realization approach to fuzzy global optimization via gamma algorithm. Mathematical and Computer Modelling, 2005, 41, 1457-1468. | 2.0 | 23 |
| 22 | Choosing the best evolutionary algorithm to optimize the multiobjective shell-and-tube heat exchanger design problem using PROMETHEE. Applied Thermal Engineering, 2017, 127, 1049-1061. | 3.0 | 23 |
| 23 | Fuzzy preference modeling and its application to multiobjective decision making. Computers and Mathematics With Applications, 2006, 52, 179-196. | 1.4 | 20 |
| 24 | Fuzzy set based multiobjective allocation of resources and its applications. Computers and Mathematics With Applications, 2006, 52, 197-210. | 1.4 | 20 |
| 25 | Models and methods of decision making in fuzzy environment and their applications to power engineering problems. Numerical Linear Algebra With Applications, 2007, 14, 369-390. | 0.9 | 20 |
| 26 | Approach to decision making in fuzzy environment. Computers and Mathematics With Applications, 1999, 37, 59-71. | 1.4 | 17 |
| 27 | Fuzzy preference relations in models of decision making. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e735-e741. | 0.6 | 14 |
| 28 | Improved asymptotic stability analysis for uncertain delayed state neural networks. Chaos, Solitons and Fractals, 2009, 39, 240-247. | 2.5 | 14 |
| 29 | An interval space reducing method for constrained problems with particle swarm optimization. Applied Soft Computing Journal, 2017, 59, 405-417. | 4.1 | 14 |
| 30 | Measuring Intra-Urban Inequality with Structural Equation Modeling: A Theory-Grounded Indicator. Sustainability, 2020, 12, 8610. | 1.6 | 14 |
| 31 | Two-stage multicriteria georeferenced express analysis of new electric transmission line projects. International Journal of Electrical Power and Energy Systems, 2019, 108, 415-431. | 3.3 | 13 |
| 32 | Fuzzy set based intra-urban inequality indicator. Quality and Quantity, 2022, 56, 667-687. | 2.0 | 13 |
| 33 | A Web-based Decision Support Center for Electrical Energy Companies. IEEE Transactions on Fuzzy Systems, 2015, 23, 16-28. | 6.5 | 12 |
| 34 | Fuzzy set theory and problems of the design and control of power systems and subsystems. , 0, , . |  | 11 |
| 35 | Cost of doing business index in Latin America. Quality and Quantity, 2022, 56, 2233-2252. | 2.0 | 11 |
| 36 | Multi-criteria decision-making under uncertainty conditions of a shell-and-tube heat exchanger. International Journal of Heat and Mass Transfer, 2020, 155, 119716. | 2.5 | 11 |

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| 37 | A fuzzy genetic algorithm for automatic orthogonal graph drawing. Applied Soft Computing Journal, 2012, 12, 1379-1389. | 4.1 | 10 |
| 38 | Factors that most expose countries to COVID-19: a composite indicators-based approach. Geo Journal, 2022, 87, 5435-5449. | 1.7 | 10 |
| 39 | Sensitivity and functionally oriented models for power system planning, operation, and control. International Journal of Electrical Power and Energy Systems, 2013, 45, 489-500. | 3.3 | 9 |
| 40 | Novel stability criteria for uncertain delayed Cohen–Grossberg neural networks using discretized Lyapunov functional. Chaos, Solitons and Fractals, 2009, 41, 2387-2393. | 2.5 | 8 |
| 41 | Multicriteria analysis based on constructing payoff matrices and applying methods of decision making in fuzzy environment. Optimization and Engineering, 2011, 12, 5-29. | 1.3 | 8 |
| 42 | Multiattribute Spatial Decision-Making for Qualitative Information Processing as Applied to the Renewable Energy Generating Sites Prospection. IEEE Access, 2020, 8, 137745-137757. | 2.6 | 7 |
| 43 | Methods of multicriteria decision making in fuzzy environment and their applications to transmission and distribution problems. , 1999, , . | | 6 |
| 44 | Fuzzy Preference Relations: Methods and Power Engineering Applications. Opsearch, 2002, 39, 34-45. | 1.1 | 6 |
| 45 | Forecasting Internet Demand Using Public Data: A Case Study in Brazil. IEEE Access, 2018, 6, 65974-65980. | 2.6 | 6 |
| 46 | Evolutionary algorithms and the Preference Ranking Organization Method for Enrichment Evaluations as applied to a multiobjective design of shell-and-tube heat exchangers. Case Studies in Thermal Engineering, 2020, 17, 100564. | 2.8 | 6 |
| 47 | Fuzzy set-based multiobjective allocation of resources: Solution algorithms and applications. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e715-e724. | 0.6 | 5 |
| 48 | Construction of nonreciprocal fuzzy preference relations with the use of preference functions. Pesquisa Operacional, 2013, 33, 305-323. | 0.1 | 5 |
| 49 | Local tissue electrical parameters predict oral mucositis in HNSCC patients: A diagnostic accuracy double-blind, randomized controlled trial. Scientific Reports, 2020, 10, 9530. | 1.6 | 5 |
| 50 | Medidas e escalas de desigualdade de renda em perspectiva. GOT - Revista De Geografia E Ordenamento Do Território, 2018, , 287-314. | 0.1 | 5 |
| 51 | Measuring inequality through a non-compensatory approach. Geo Journal, 2022, 87, 4689-4706. | 1.7 | 5 |
| 52 | Fuzzy set-based approach for grid integration and operation of ultra-fast charging electric buses. International Journal of Electrical Power and Energy Systems, 2022, 138, 107919. | 3.3 | 5 |
| 53 | Expand or Oversize? Planning Internet Access Network in a Demand Growth Scenario. Journal of Network and Systems Management, 2020, 28, 1820-1838. | 3.3 | 4 |
| 54 | Group Decision-Based Construction of Scenarios for Multicriteria Analysis in Conditions of Uncertainty on the Basis of Quantitative and Qualitative Information. Group Decision and Negotiation, 2021, 30, 665-696. | 2.0 | 4 |

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| 55 | Imposto Predial e Territorial Urbano: tratando espacialmente desafios econômicos, sociais e políticos. Urbe, 0, 12, . | 0.3 | 4 |
| 56 | Representing Multidimensional Phenomena of Geographic Interest: Benefit of the Doubt or Principal Component Analysis?. Professional Geographer, 2022, 74, 758-771. | 1.0 | 4 |
| 57 | A fuzzy decision making for the distribution systems planning. , 0, , . | | 3 |
| 58 | Cubic algorithm for global optimization with box and equality constraints and application to optimal allocation of resources. Mathematical and Computer Modelling, 2004, 40, 63-76. | 2.0 | 3 |
| 59 | Structural Equation Modeling Applied to Internet Consumption Forecast in Brazil. IEEE Access, 2020, 8, 161816-161824. | 2.6 | 3 |
| 60 | Geomarketing e o problema da questão locacional nos estudos de marketing. Revista Brasileira De Marketing, 2020, 19, 448-469. | 0.1 | 3 |
| 61 | Evaluation of Operational Risk in Power Substations and Its Rational Reduction on the Basis of Multicriteria Allocating Resources. IEEE Access, 2021, 9, 149383-149397. | 2.6 | 3 |
| 62 | Uncertainty Analysis Applied to the Representation of Multidimensional Social Phenomena. Papers in Applied Geography, 2022, 8, 315-338. | 0.8 | 3 |
| 63 | Discrete optimization algorithms and problems of decision making in a fuzzy environment. Nonlinear Analysis: Hybrid Systems, 2007, 1, 593-602. | 2.1 | 2 |
| 64 | Continuous results-driven innovation management program. REGE Revista De Gestão, 2019, 26, 389-408. | 1.0 | 2 |
| 65 | Artificial Neural Network Engine: Parallel and Parameterized Architecture Implemented in FPGA. Lecture Notes in Computer Science, 2005, , 294-299. | 1.0 | 2 |
| 66 | Methods of multicriteria decision making in fuzzy environment and their applications. , 0, , . | | 1 |
| 67 | Fuzzy set based multicriteria decision making in power engineering problems. , 2013, , . | | 1 |
| 68 | An Efficient Parallel Implementation of an Optimized Simplex Method in GPU-CUDA. IEEE Latin America Transactions, 2018, 16, 564-573. | 1.2 | 1 |
| 69 | EVIDENCE OF THE NEGATIVE RELATIONSHIP OF TRANSACTION COSTS IN THE ECONOMIC PERFORMANCE OF G7+BRICS COUNTRIES. SSRN Electronic Journal, 0, , . | 0.4 | 1 |
| 70 | Fuzzy Coefficients and Fuzzy Preference Relations in Models of Decision Making. Lecture Notes in Computer Science, 2003, , 229-236. | 1.0 | 1 |
| 71 | Swarm intelligence and fuzzy sets for bed exit detection of elderly. Journal of Intelligent and Fuzzy Systems, 2020, 39, 1061-1072. | 0.8 | 1 |
| 72 | Fuzzy Preference Relations and Multiobjective Decision Making. , 2005, , 83-92. | | 1 |

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| 73 | South American business environment cost index: reforms for Brazil. International Journal of Business Environment, 2021, 1, 1. | 0.2 | 1 |
| 74 | Methods of soft computing in modelling and controlling power systems and subsystems. , 0, , . | | 0 |
| 75 | Fuzzy set theory based emergency control for power distribution systems. , 0, , . | | 0 |
| 76 | Fuzzy Logic Based Control of Voltage and Reactive Power in Subtransmission System. Lecture Notes in Computer Science, 2005, , 332-337. | 1.0 | 0 |
| 77 | Parallel Image Segmentation in Reconfigurable Chip Multiprocessors. Lecture Notes in Computer Science, 2006, , 728-737. | 1.0 | 0 |
| 78 | AnÃ¡lise de estabilidade assintÃ³tica e exponencial em redes neurais artificiais sujeitas a retardo no tempo e a incertezas do tipo politÃ³picas. Controle and Automacao, 2008, 19, 115-127. | 0.2 | 0 |
| 79 | MONITORING THE STATOR CURRENT IN INDUCTION MACHINES FOR POSSIBLE FAULT DETECTION: A FUZZY/BAYESIAN APPROACH FOR THE PROBLEM OF TIME SERIES MULTIPLE CHANGE POINT DETECTION. Pesquisa Operacional, 2016, 36, 301-320. | 0.1 | 0 |
| 80 | Two-Stage Optimization Combining PSO and TOPSIS for Allocation of Energy Storage in Electric Power Systems. , 2018, , . | | 0 |
| 81 | Multi-Objective Genetic Algorithm Implemented on a STM32F Microcontroller. , 2018, , . | | 0 |
| 82 | The Weighting of Composite Indicators from the Perspective of Consensus. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 83 | RCMP: A Reconfigurable Chip-Multiprocessor Architecture. Lecture Notes in Computer Science, 2006, , 94-103. | 1.0 | 0 |
| 84 | A Parallel Implementation of the Finite Volume Method for the Simulation of the Natural Convection in a Closed Cavity. Lecture Notes in Computer Science, 2006, , 748-757. | 1.0 | 0 |
| 85 | UMA ABORDAGEM PARA PROJETOS DE LINHAS DE DISTRIBUIÃ‡ÃƒO POR ALTIMETRIA UTILIZANDO MÃ‰TODO DE OTIMIZAÃ‡ÃƒO POR ALGORITMOS EVOLUCIONÃRIOS. , 0, , . | | 0 |
| 86 | ALOCAÃ‡ÃƒO Ã"TIMA DE FONTES DE ARMAZENAMENTO DE ENERGIA PARA REDUÃ‡ÃƒO DO CUSTO DE OPERAÃ‡ÃƒO DO SISTEMA ELÃ‰TRICO. , 0, , . | | 0 |
| 87 | AGREGAÃ‡ÃƒO DE MÃ‰TRICAS DE RISCO COM O OPERADOR OWA APLICADA A COMERCIALIZAÃ‡ÃƒO DE ENERGIA. , 0, , . | | 0 |
| 88 | OtimizaÃ§Ã£o da InstalaÃ§Ã£o de Armazenamento de Energia em Sistemas ElÃ©tricos de PotÃªncia com InjeÃ§Ã£o de Fontes RenovÃ¡veis. , 0, , . | | 0 |
| 89 | PrevisÃ£o de Demanda de Energia ElÃ©trica Utilizando Modelos Lineares. , 0, , . | | 0 |
| 90 | Reduzindo custos de sistemas preventivos de descargas atmosfÃ©ricas por otimizaÃ§Ã£o locacional. GOT - Revista De Geografia E Ordenamento Do TerritÃ³rio, 2020, , 149-166. | 0.1 | 0 |

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| 91 | A abordagem da Análise Econômica do Direito em contratações públicas: uma revisão sistemática da literatura do Brasil. Economic Analysis of Law Review, 2021, 12, 110. | 0.0 | 0 |