

Domagoj Jakobovic

List of Publications by Year in descending order

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96
papers

1,649
citations

361296

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395590

33
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99
all docs

99
docs citations

99
times ranked

757
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Adaptive scheduling on unrelated machines with genetic programming. Applied Soft Computing Journal, 2016, 48, 419-430. | 4.1 | 84 |
| 2 | A survey of dispatching rules for the dynamic unrelated machines environment. Expert Systems With Applications, 2018, 113, 555-569. | 4.4 | 84 |
| 3 | Dynamic Scheduling with Genetic Programming. Lecture Notes in Computer Science, 2006, , 73-84. | 1.0 | 76 |
| 4 | Evolving priority scheduling heuristics with genetic programming. Applied Soft Computing Journal, 2012, 12, 2781-2789. | 4.1 | 65 |
| 5 | Side-channel analysis and machine learning: A practical perspective. , 2017, , . | | 59 |
| 6 | Cryptographic Boolean functions: One output, many design criteria. Applied Soft Computing Journal, 2016, 40, 635-653. | 4.1 | 58 |
| 7 | Predictive and generative machine learning models for photonic crystals. Nanophotonics, 2020, 9, 4183-4192. | 2.9 | 58 |
| 8 | Evolving priority rules for resource constrained project scheduling problem with genetic programming. Future Generation Computer Systems, 2018, 86, 211-221. | 4.9 | 51 |
| 9 | Genetic Programming Heuristics for Multiple Machine Scheduling. , 2007, , 321-330. | | 45 |
| 10 | Improving genetic algorithm performance by population initialisation with dispatching rules. Computers and Industrial Engineering, 2019, 137, 106030. | 3.4 | 45 |
| 11 | Cellular automata based S-boxes. Cryptography and Communications, 2019, 11, 41-62. | 0.9 | 43 |
| 12 | Evolutionary Algorithms for Boolean Functions in Diverse Domains of Cryptography. Evolutionary Computation, 2016, 24, 667-694. | 2.3 | 38 |
| 13 | Comparison of ensemble learning methods for creating ensembles of dispatching rules for the unrelated machines environment. Genetic Programming and Evolvable Machines, 2018, 19, 53-92. | 1.5 | 34 |
| 14 | Evolving dispatching rules for optimising many-objective criteria in the unrelated machines environment. Genetic Programming and Evolvable Machines, 2018, 19, 9-51. | 1.5 | 33 |
| 15 | Confused by Confusion: Systematic Evaluation of DPA Resistance of Various S-boxes. Lecture Notes in Computer Science, 2014, , 374-390. | 1.0 | 33 |
| 16 | On using genetic algorithms for intrinsic side-channel resistance. , 2014, , . | | 32 |
| 17 | Creating dispatching rules by simple ensemble combination. Journal of Heuristics, 2019, 25, 959-1013. | 1.1 | 29 |
| 18 | S-box, SET, Match: A Toolbox for S-box Analysis. Lecture Notes in Computer Science, 2014, , 140-149. | 1.0 | 29 |

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|----|---|-----|-----------|
| 19 | Evolving cryptographically sound boolean functions. , 2013, , . | | 28 |
| 20 | Design of S-boxes Defined with Cellular Automata Rules. , 2017, , . | | 28 |
| 21 | Optimality and beyond: The case of 4×4 S-boxes. , 2014, , . | | 25 |
| 22 | Designing dispatching rules with genetic programming for the unrelated machines environment with constraints. Expert Systems With Applications, 2021, 172, 114548. | 4.4 | 24 |
| 23 | Ensembles of priority rules for resource constrained project scheduling problem. Applied Soft Computing Journal, 2021, 110, 107606. | 4.1 | 24 |
| 24 | Classification of Cancer Data: Analyzing Gene Expression Data Using a Fuzzy Decision Tree Algorithm. Profiles in Operations Research, 2018, , 327-347. | 0.3 | 22 |
| 25 | Evaluation of Crossover Operator Performance in Genetic Algorithms with Binary Representation. Lecture Notes in Computer Science, 2012, , 223-230. | 1.0 | 22 |
| 26 | On the recombination operator in the real-coded genetic algorithms. , 2013, , . | | 21 |
| 27 | Comparison of schedule generation schemes for designing dispatching rules with genetic programming in the unrelated machines environment. Applied Soft Computing Journal, 2020, 96, 106637. | 4.1 | 21 |
| 28 | Evolutionary Methods for the Construction of Cryptographic Boolean Functions. Lecture Notes in Computer Science, 2015, , 192-204. | 1.0 | 21 |
| 29 | Evolving Algebraic Constructions for Designing Bent Boolean Functions. , 2016, , . | | 20 |
| 30 | Combining Evolutionary Computation and Algebraic Constructions to Find Cryptography-Relevant Boolean Functions. Lecture Notes in Computer Science, 2014, , 822-831. | 1.0 | 19 |
| 31 | Analyzing gene expression data: Fuzzy decision tree algorithm applied to the classification of cancer data. , 2015, , . | | 18 |
| 32 | Evolving S-boxes based on cellular automata with genetic programming. , 2017, , . | | 18 |
| 33 | Evolutionary algorithms for the design of orthogonal latin squares based on cellular automata. , 2017, , . | | 17 |
| 34 | Evolving genetic algorithms for fault injection attacks. , 2014, , . | | 16 |
| 35 | Toward more efficient heuristic construction of Boolean functions. Applied Soft Computing Journal, 2021, 107, 107327. | 4.1 | 16 |
| 36 | Evolutionary Approach for Finding Correlation Immune Boolean Functions of Order t with Minimal Hamming Weight. Lecture Notes in Computer Science, 2015, , 71-82. | 1.0 | 16 |

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| 37 | Measuring Performance of Optimization Algorithms in Evolutionary Computation. International Journal of Machine Learning and Computing, 2016, 6, 167-171. | 0.8 | 16 |
| 38 | Correlation Immunity of Boolean Functions. , 2015, , . | | 15 |
| 39 | Glitch It If You Can: Parameter Search Strategies for Successful Fault Injection. Lecture Notes in Computer Science, 2014, , 236-252. | 1.0 | 14 |
| 40 | Evolving DPA-Resistant Boolean Functions. Lecture Notes in Computer Science, 2014, , 812-821. | 1.0 | 14 |
| 41 | Fault Injection with a New Flavor: Memetic Algorithms Make a Difference. Lecture Notes in Computer Science, 2015, , 159-173. | 1.0 | 14 |
| 42 | Cartesian Genetic Programming Approach for Generating Substitution Boxes of Different Sizes. , 2015, , . | | 13 |
| 43 | Immunological algorithms paradigm for construction of Boolean functions with good cryptographic properties. Engineering Applications of Artificial Intelligence, 2017, 62, 320-330. | 4.3 | 13 |
| 44 | Hyper-bent Boolean Functions and Evolutionary Algorithms. Lecture Notes in Computer Science, 2019, , 262-277. | 1.0 | 11 |
| 45 | Evolutionary Search of Binary Orthogonal Arrays. Lecture Notes in Computer Science, 2018, , 121-133. | 1.0 | 11 |
| 46 | Selection of dispatching rules evolved by genetic programming in dynamic unrelated machines scheduling based on problem characteristics. Journal of Computational Science, 2022, 61, 101649. | 1.5 | 11 |
| 47 | Evolutionary algorithms for the resource constrained scheduling problem. , 2008, , . | | 10 |
| 48 | Maximal nonlinearity in balanced boolean functions with even number of inputs, revisited. , 2016, , . | | 10 |
| 49 | Evolving Cryptographic Pseudorandom Number Generators. Lecture Notes in Computer Science, 2016, , 613-622. | 1.0 | 10 |
| 50 | Asynchronous and implicitly parallel evolutionary computation models. Soft Computing, 2014, 18, 1225-1236. | 2.1 | 9 |
| 51 | A characterisation of S-box fitness landscapes in cryptography. , 2019, , . | | 9 |
| 52 | A comparative study of solution representations for the unrelated machines environment. Computers and Operations Research, 2020, 123, 105005. | 2.4 | 9 |
| 53 | S-box Pipelining Using Genetic Algorithms for High-Throughput AES Implementations: How Fast Can We Go?. Lecture Notes in Computer Science, 2014, , 322-337. | 1.0 | 8 |
| 54 | A Comparative Study of Dispatching Rule Representations in Evolutionary Algorithms for the Dynamic Unrelated Machines Environment. IEEE Access, 2022, 10, 22886-22901. | 2.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Local search based methods for scheduling in the unrelated parallel machines environment. Expert Systems With Applications, 2022, 199, 116909. | 4.4 | 8 |
| 56 | Using priority rules for resource-constrained project scheduling problem in static environment. Computers and Industrial Engineering, 2022, 169, 108239. | 3.4 | 8 |
| 57 | Exam timetabling using genetic algorithm. , 2009, , . | | 7 |
| 58 | Evolutionary Algorithms for Finding Short Addition Chains: Going the Distance. Lecture Notes in Computer Science, 2016, , 121-137. | 1.0 | 7 |
| 59 | Evolving Bent Quaternary Functions. , 2018, , . | | 7 |
| 60 | On the design of S-box constructions with genetic programming. , 2019, , . | | 7 |
| 61 | Evolutionary Algorithms for the Design of Quantum Protocols. Lecture Notes in Computer Science, 2019, , 220-236. | 1.0 | 7 |
| 62 | Automatic design of dispatching rules for static scheduling conditions. Neural Computing and Applications, 2021, 33, 5043-5068. | 3.2 | 7 |
| 63 | Glitch It If You Can: Parameter Search Strategies for Successful Fault Injection. Lecture Notes in Computer Science, 2014, , 236-252. | 1.0 | 7 |
| 64 | University Course Timetabling Using ACO: A Case Study on Laboratory Exercises. Lecture Notes in Computer Science, 2010, , 100-110. | 1.0 | 7 |
| 65 | Novel ensemble collaboration method for dynamic scheduling problems. , 2022, , . | | 7 |
| 66 | From fitness landscape to crossover operator choice. , 2014, , . | | 6 |
| 67 | Evolutionary algorithms-assisted construction of cryptographic boolean functions. , 2021, , . | | 6 |
| 68 | Comparison of solution representations for scheduling in the unrelated machines environment. , 2016, , . | | 5 |
| 69 | Finding short and implementation-friendly addition chains with evolutionary algorithms. Journal of Heuristics, 2018, 24, 457-481. | 1.1 | 5 |
| 70 | On the Application of μ -Lexicase Selection in the Generation of Dispatching Rules. , 2021, , . | | 5 |
| 71 | Genetic Algorithms in Real-Time Imprecise Computing. Journal of Computing and Information Technology, 2000, 8, 249. | 0.2 | 5 |
| 72 | Complexity comparison of integer programming and genetic algorithms for resource constrained scheduling problems. , 2017, , . | | 4 |

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| 73 | CryptoBench. , 2017, , . | | 4 |
| 74 | On the evolution of bent (n, m) functions. , 2017, , . | | 4 |
| 75 | $C^{3/2}$ PO. , 2019, , . | | 4 |
| 76 | An Evolutionary View on Reversible Shift-Invariant Transformations. Lecture Notes in Computer Science, 2020, , 118-134. | 1.0 | 4 |
| 77 | Evolutionary computation and machine learning in cryptology. , 2020, , . | | 4 |
| 78 | One property to rule them all?. , 2020, , . | | 4 |
| 79 | University Course Timetabling with Genetic Algorithm: A Laboratory Exercises Case Study. Lecture Notes in Computer Science, 2009, , 240-251. | 1.0 | 4 |
| 80 | A Search for Differentially-6 Uniform $(n, n-2)$ Functions. , 2018, , . | | 3 |
| 81 | Evolutionary algorithms for designing reversible cellular automata. Genetic Programming and Evolvable Machines, 2021, 22, 429-461. | 1.5 | 3 |
| 82 | The Design of (Almost) Disjunct Matrices by Evolutionary Algorithms. Lecture Notes in Computer Science, 2018, , 152-163. | 1.0 | 3 |
| 83 | Towards Interpretable Dispatching Rules: Application of Expression Simplification Methods. , 2021, , . | | 3 |
| 84 | Evolutionary computation and machine learning in cryptology. , 2021, , . | | 2 |
| 85 | Extreme Pipelining Towards the Best Area-Performance Trade-Off in Hardware. Lecture Notes in Computer Science, 2016, , 147-166. | 1.0 | 2 |
| 86 | Fitness Landscape Analysis of Dimensionally-Aware Genetic Programming Featuring Feynman Equations. Lecture Notes in Computer Science, 2020, , 111-124. | 1.0 | 2 |
| 87 | On the Difficulty of Evolving Permutation Codes. Lecture Notes in Computer Science, 2022, , 141-156. | 1.0 | 2 |
| 88 | Influence of the crossover operator in the performance of the hybrid Taguchi GA. , 2012, , . | | 1 |
| 89 | A Search for Additional Structure: The Case of Cryptographic S-boxes. Lecture Notes in Computer Science, 2020, , 343-356. | 1.0 | 1 |
| 90 | Genetic programming hyperheuristic parameter configuration using fitness landscape analysis. Applied Intelligence, 2021, 51, 7402-7426. | 3.3 | 1 |

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| 91 | Intelligent problem solving in process control of an event filter cluster for a particle physics experiment. Expert Systems With Applications, 2011, 38, 13568-13568. | 4.4 | 0 |
| 92 | Inferring presence status on smartphones: The big data perspective. , 2013, , . | | 0 |
| 93 | Benu: Operating System Increments for Embedded Systems Engineer's Education. , 0, , . | | 0 |
| 94 | Workforce Scheduling in Inbound Customer Call Centres with a Case Study. Lecture Notes in Computer Science, 2016, , 831-846. | 1.0 | 0 |
| 95 | On the mutual information as a fitness landscape measure. , 2017, , . | | 0 |
| 96 | On the genotype compression and expansion for evolutionary algorithms in the continuous domain. , 2021, , . | | 0 |