Pascal Bouvry

List of Publications by Citations

Source: https://exaly.com/author-pdf/2078114/pascal-bouvry-publications-by-citations.pdf
Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

348 papers	4,408 citations	30 h-index	54 g-index
407 ext. papers	5,390 ext. citations	2.4 avg, IF	5.98 L-index

#	Paper	IF	Citations
348	GreenCloud: a packet-level simulator of energy-aware cloud computing data centers. *Journal of Supercomputing*, **2012**, 62, 1263-1283	2.5	293
347	Particle swarm optimization: Hybridization perspectives and experimental illustrations. *Applied Mathematics and Computation*, **2011**, 217, 5208-5226	2.7	179
346	A Survey on Mobile Crowdsensing Systems: Challenges, Solutions, and Opportunities. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 2419-2465	37.1	163
345	DENS: data center energy-efficient network-aware scheduling. *Cluster Computing*, **2013**, 16, 65-75	2.1	144
344	Energy-efficient data replication in cloud computing datacenters. *Cluster Computing*, **2015**, 18, 385-402	2.1	135
343	An overview of energy efficiency techniques in cluster computing systems. *Cluster Computing*, **2013** , 16, 3-15	2.1	131
342	Management of an academic HPC cluster: The UL experience **2014**,		130
341	GreenCloud: A Packet-Level Simulator of Energy-Aware Cloud Computing Data Centers **2010**,		126
340	Improving Classical and Decentralized Differential Evolution With New Mutation Operator and Population Topologies. *IEEE Transactions on Evolutionary Computation*, **2011**, 15, 67-98	15.6	125
339	A Survey of Evolutionary Computation for Resource Management of Processing in Cloud Computing [Review Article]. *IEEE Computational Intelligence Magazine*, **2015**, 10, 53-67	5.6	79
338	Cellular automata computations and secret key cryptography. *Parallel Computing*, **2004**, 30, 753-766	1	76
337	A survey on resource allocation in high performance distributed computing systems. *Parallel Computing*, **2013**, 39, 709-736	1	74
336	CrowdSenSim: a Simulation Platform for Mobile Crowdsensing in Realistic Urban Environments. *IEEE Access*, **2017**, 5, 3490-3503	3.5	64
335	DENS: Data Center Energy-Efficient Network-Aware Scheduling **2010**,		64
334	A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs. *Computer Communications*, **2007**, 30, 685-697	5.1	64
333	Energy-Aware Scheduling on Multicore Heterogeneous Grid Computing Systems. *Journal of Grid Computing*, **2013**, 11, 653-680	4.2	60
332	A Cost-Effective Distributed Framework for Data Collection in Cloud-Based Mobile Crowd Sensing Architectures. *IEEE Transactions on Sustainable Computing*, **2017**, 2, 3-16	3.5	52

331	CA-DAG: Modeling Communication-Aware Applications for Scheduling in Cloud Computing. *Journal of Grid Computing*, **2016**, 14, 23-39	4.2	49
330	Performance and Energy Efficiency Metrics for Communication Systems of Cloud Computing Data Centers. *IEEE Transactions on Cloud Computing*, **2017**, 5, 738-750	3.3	48
329	e-STAB: Energy-Efficient Scheduling for Cloud Computing Applications with Traffic Load Balancing **2013**,		48
328	An Overview of MANETs Simulation. *Electronic Notes in Theoretical Computer Science*, **2006**, 150, 81-101	0.7	44
327	Intelligent Gaming for Mobile Crowd-Sensing Participants to Acquire Trustworthy Big Data in the Internet of Things. *IEEE Access*, **2017**, 5, 22209-22223	3.5	41
326	UAV fleet area coverage with network connectivity constraint **2013**,		37
325	Survey on Broadcast Algorithms for Mobile Ad Hoc Networks. *ACM Computing Surveys*, **2015**, 48, 1-35	13.4	36
324	Chaos-enhanced mobility models for multilevel swarms of UAVs. *Swarm and Evolutionary Computation*, **2018**, 41, 36-48	9.8	36
323	Achieving super-linear performance in parallel multi-objective evolutionary algorithms by means of cooperative coevolution. *Computers and Operations Research*, **2013**, 40, 1552-1563	4.6	36
322	Solving very large instances of the scheduling of independent tasks problem on the GPU. *Journal of Parallel and Distributed Computing*, **2013**, 73, 101-110	4.4	33
321	Multi-objective evolutionary algorithms for energy-aware scheduling on distributed computing systems. *Applied Soft Computing Journal*, **2014**, 24, 432-446	7.5	32
320	Sociability-Driven Framework for Data Acquisition in Mobile Crowdsensing Over Fog Computing Platforms for Smart Cities. *IEEE Transactions on Sustainable Computing*, **2017**, 2, 345-358	3.5	30
319	Information dissemination in VANETs based upon a tree topology. *Ad Hoc Networks*, **2012**, 10, 111-127	4.8	30
318	Online Bi-Objective Scheduling for IaaS Clouds Ensuring Quality of Service. *Journal of Grid Computing*, **2016**, 14, 5-22	4.2	30
317	A survey of vehicular-based cooperative traffic information systems **2011**,		28
316	Connectivity Stability in Autonomous Multi-level UAV Swarms for Wide Area Monitoring **2015**,		27
315	. *IEEE Cloud Computing*, **2015**, 2, 40-47		27
314	Certicloud: A Novel TPM-based Approach to Ensure Cloud IaaS Security **2011**,		26

313	Smart Probabilistic Fingerprinting for Indoor Localization over Fog Computing Platforms **2016**,		25
312	Collision Avoidance Effects on the Mobility of a UAV Swarm Using Chaotic Ant Colony with Model Predictive Control. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2019**, 93, 227-243	2.9	25
311	**2014**,		23
310	Defending Against Intrusion of Malicious UAVs with Networked UAV Defense Swarms **2017**,		21
309	Energy-efficient data replication in cloud computing datacenters **2013**,		21
308	Energy-aware fast scheduling heuristics in heterogeneous computing systems **2011**,		21
307	Performance Evaluation and Energy Efficiency of High-Density HPC Platforms Based on Intel, AMD and ARM Processors. *Lecture Notes in Computer Science*, **2013**, 182-200	0.9	21
306	A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. *Journal of Parallel and Distributed Computing*, **2018**, 112, 111-125	4.4	20
305	From Random Process to Chaotic Behavior in Swarms of UAVs **2016**,		20
304	A two-phase heuristic for the energy-efficient scheduling of independent tasks on computational grids. *Cluster Computing*, **2013**, 16, 421-433	2.1	20
303	Real-Time Virtual Network Function (VNF) Migration toward Low Network Latency in Cloud Environments **2017**,		20
302	A hierarchical approach for energy-efficient scheduling of large workloads in multicore distributed systems. *Sustainable Computing: Informatics and Systems*, **2014**, 4, 252-261	3	19
301	HPC Performance and Energy-Efficiency of Xen, KVM and VMware Hypervisors **2013**,		19
300	HEROS: Energy-Efficient Load Balancing for Heterogeneous Data Centers **2015**,		18
299	Internet of Unmanned Aerial Vehicles-A Multilayer Low-Altitude Airspace Model for Distributed UAV Traffic Management. *Sensors*, **2019**, 19,	3.8	18
298	Anomaly detection in TCP/IP networks using immune systems paradigm. *Computer Communications* , **2007**, 30, 740-749	5.1	18
297	Game-Theoretic Recruitment of Sensing Service Providers for Trustworthy Cloud-Centric Internet-of-Things (IoT) Applications **2016**,		18
296	Minimum Dependencies Energy-Efficient Scheduling in Data Centers. *IEEE Transactions on Parallel and Distributed Systems*, **2016**, 27, 3561-3574	3.7	18

295	Transfer Graph Approach for Multimodal Transport Problems. *Communications in Computer and Information Science*, **2008**, 538-547	0.3	17
294	Distributed evolutionary optimization, in Manifold: Rosenbrock's function case study. *Information Sciences*, **2000**, 122, 141-159	7.7	17
293	Sociability-Driven User Recruitment in Mobile Crowdsensing Internet of Things Platforms **2016**,		17
292	Profiling Performance of Application Partitioning for Wearable Devices in Mobile Cloud and Fog Computing. *IEEE Access*, **2019**, 7, 12156-12166	3.5	16
291	Designing robust volunteer-based evolutionary algorithms. *Genetic Programming and Evolvable Machines*, **2014**, 15, 221-244	2	16
290	A comparative study of rate monotonic schedulability tests. *Journal of Supercomputing*, **2012**, 59, 1419-1430	1.3	16
289	Coevolutionary-based Mechanisms for Network Anomaly Detection. *Mathematical Modelling and Algorithms*, **2007**, 6, 411-431		16
288	Cost analysis of smart lighting solutions for smart cities **2017**,		15
287	Network-assisted offloading for mobile cloud applications **2015**,		14
286	Internet shopping with price sensitive discounts. *4or*, **2014**, 12, 35-48	1.4	14
285	CA-DAG: Communication-Aware Directed Acyclic Graphs for Modeling Cloud Computing Applications **2013**,		14
284	A Vehicular Mobility Model Based on Real Traffic Counting Data. *Lecture Notes in Computer Science*, **2011**, 131-142	0.9	14
283	A platform for realistic online vehicular network management **2010**,		14
282	A Cellular Genetic Algorithm for scheduling applications and energy-aware communication optimization **2010**,		14
281	SHARC: Community-based partitioning for mobile ad hoc networks using neighborhood similarity **2010**,		14
280	Evolutionary game theoretical analysis of reputation-based packet forwarding in civilian mobile Ad Hoc networks **2009**,		14
279	Why energy matters? Profiling energy consumption of mobile crowdsensing data collection frameworks. *Pervasive and Mobile Computing*, **2018**, 51, 193-208	3.5	14
278	Load Balancing at the Edge of Chaos: How Self-Organized Criticality Can Lead to Energy-Efficient Computing. *IEEE Transactions on Parallel and Distributed Systems*, **2017**, 28, 517-529	3.7	13

277	Graph Cellular Automata approach to the Maximum Lifetime Coverage Problem in wireless sensor networks. *Simulation*, **2016**, 92, 153-164	1.2	13
276	Cellular genetic algorithms without additional parameters. *Journal of Supercomputing*, **2013**, 63, 816-835	2.5	13
275	A Holistic Model for Resource Representation in Virtualized Cloud Computing Data Centers **2013**,		13
274	Scalable and Energy-Efficient Scheduling Techniques for Large-Scale Systems **2011**,		13
273	Tackling Large-Scale and Combinatorial Bi-Level Problems With a Genetic Programming Hyper-Heuristic. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 44-56	15.6	13
272	Energy-aware online scheduling: Ensuring quality of service for IaaS clouds **2014**,		12
271	Hopfield neural network for simultaneous job scheduling and data replication in grids. *Future Generation Computer Systems*, **2013**, 29, 1885-1900	7.5	12
270	Energy efficient data collection in opportunistic mobile crowdsensing architectures for smart cities **2017**,		12
269	An Evaluation Model for Selecting Cloud Services from Commercially Available Cloud Providers **2015**,		12
268	A holistic model of the performance and the energy efficiency of hypervisors in a high-performance computing environment. *Concurrency Computation Practice and Experience*, **2014**, 26, 2569-2590	1.4	12
267	Analysing the development of cooperation in MANETs using evolutionary game theory. *Journal of Supercomputing*, **2013**, 63, 854-870	2.5	12
266	On dynamic multi-objective optimization, classification and performance measures **2011**,		12
265	A self-adaptive cellular memetic algorithm for the DNA fragment assembly problem **2008**,		12
264	Block cipher based on reversible cellular automata. *New Generation Computing*, **2005**, 23, 245-258	0.9	12
263	A Heuristic for Efficient Broadcasting in the Metropolitan Ad hoc Network. *Lecture Notes in Computer Science*, **2004**, 727-733	0.9	12
262	UAV-UGV-UMV Multi-Swarms for Cooperative Surveillance. *Frontiers in Robotics and AI*, **2021**, 8, 616950	2.8	12
261	RapidRMSD: rapid determination of RMSDs corresponding to motions of flexible molecules. *Bioinformatics*, **2018**, 34, 2757-2765	7.2	11
260	Scalable, low complexity, and fast greedy scheduling heuristics for highly heterogeneous distributed computing systems. *Journal of Supercomputing*, **2014**, 67, 837-853	2.5	11

259	Energy-Efficient Resource Utilization in Cloud Computing **2013**, 377-408		11
258	Target Tracking Optimization of UAV Swarms Based on Dual-Pheromone Clustering **2017**,		11
257	Energy Consumption Optimization in Cloud Data Centers **2015**, 191-215		11
256	Solving the minimum M-dominating set problem by a continuous optimization approach based on DC programming and DCA. *Journal of Combinatorial Optimization*, **2012**, 24, 397-412	0.9	11
255	Evaluation of dynamic communities in large-scale vehicular networks **2013**,		11
254	Memory-Aware Green Scheduling on Multi-core Processors **2010**,		11
253	Using heterogeneous multilevel swarms of UAVs and high-level data fusion to support situation management in surveillance scenarios **2016**,		11
252	Assessing Performance of Internet of Things-Based Mobile Crowdsensing Systems for Sensing as a Service Applications in Smart Cities **2016**,		11
251	Privacy and Security of Big Data in AI Systems: A Research and Standards Perspective **2019**,		11
250	Comparison and Analysis of Greedy Energy-Efficient Scheduling Algorithms for Computational Grids189-214		11
249	Mitigating flash crowd effect using connected vehicle technology. *Vehicular Communications*, **2015**, 2, 238-250	5.7	10
248	Optimisation of the enhanced distance based broadcasting protocol for MANETs. *Journal of Supercomputing*, **2012**, 62, 1213-1240	2.5	10
247	Aspects and trends in realistic VANET simulations **2012**,		10
246	Multi-objective Cooperative Coevolutionary Evolutionary Algorithms for Continuous and Combinatorial Optimization. *Studies in Computational Intelligence*, **2011**, 49-74	0.8	10
245	Solving Multi Objective Stochastic Programming Problems Using Differential Evolution. *Lecture Notes in Computer Science*, **2010**, 54-61	0.9	10
244	Immune anomaly detection enhanced with evolutionary paradigms **2006**,		10
243	Modelling the Evolution of Cooperative Behavior in Ad Hoc Networks using a Game Based Model **2007**,		10
242	Function Optimization with Coevolutionary Algorithms **2003**, 13-22		10

241	Amazon Elastic Compute Cloud (EC2) versus In-House HPC Platform: A Cost Analysis. *IEEE Transactions on Cloud Computing*, **2019**, 7, 456-468	3.3	10
240	A Cooperative Coevolutionary Approach to Maximise Surveillance Coverage of UAV Swarms **2020**,		9
239	A parallel hybrid genetic algorithm-simulated annealing for solving Q3AP on computational grid **2009**,		9
238	Exact and heuristic approaches to solve the Internet shopping optimization problem with delivery costs. *International Journal of Applied Mathematics and Computer Science*, **2016**, 26, 391-406	1.7	9
237	UAV Fleet Mobility Model with Multiple Pheromones for Tracking Moving Observation Targets. *Lecture Notes in Computer Science*, **2016**, 332-347	0.9	9
236	High-Precision Design of Pedestrian Mobility for Smart City Simulators **2018**,		9
235	Models for efficient data replication in cloud computing datacenters **2015**,		8
234	The sandpile scheduler. *Cluster Computing*, **2014**, 17, 191-204	2.1	8
233	A Parallel Hybrid Evolutionary Algorithm for the Optimization of Broker Virtual Machines Subletting in Cloud Systems **2013**,		8
232	Area exploration with a swarm of UAVs combining deterministic chaotic ant colony mobility with position MPC **2017**,		8
231	Min_c: Heterogeneous concentration policy for energy-aware scheduling of jobs with resource contention. *Programming and Computer Software*, **2017**, 43, 204-215	0.8	8
230	Coverage Optimization with Connectivity Preservation for UAV Swarms Applying Chaotic Dynamics **2017**,		8
229	Adaptive energy efficient distributed VoIP load balancing in federated cloud infrastructure **2014**,		8
228	A new parallel asynchronous cellular genetic algorithm for scheduling in grids **2010**,		8
227	A two-phase heuristic for the scheduling of independent tasks on computational grids **2011**,		8
226	A Multi-objective GRASP Algorithm for Joint Optimization of Energy Consumption and Schedule Length of Precedence-Constrained Applications **2011**,		8
225	Evolutionary Algorithm Parameter Tuning with Sensitivity Analysis. *Lecture Notes in Computer Science*, **2012**, 204-216	0.9	8
224	Profiling Energy Efficiency of Mobile Crowdsensing Data Collection Frameworks for Smart City Applications **2018**,		8

223	Green flexible opportunistic computing with task consolidation and virtualization. *Cluster Computing*, **2013**, 16, 545-557	2.1	7
222	Optimising small-world properties in VANETs: Centralised and distributed overlay approaches. *Applied Soft Computing Journal*, **2014**, 21, 637-646	7.5	7
221	Energy-efficient high-performance parallel and distributed computing. *Journal of Supercomputing*, **2012**, 60, 163-164	2.5	7
220	Accounting for load variation in energy-efficient data centers **2013**,		7
219	A classification of dynamic multi-objective optimization problems **2011**,		7
218	Trusted spanning trees for Delay Tolerant Mobile Ad Hoc Networks **2008**,		7
217	Scheduling complete intrees on two uniform processors with communication delays. *Information Processing Letters*, **1996**, 58, 255-263	0.8	7
216	On the Energy-Proportionality of Data Center Networks. *IEEE Transactions on Sustainable Computing*, **2017**, 2, 197-210	3.5	7
215	Service Level Agreement Assurance between Cloud Services Providers and Cloud Customers **2016**,		7
214	A GP Hyper-Heuristic Approach for Generating TSP Heuristics **2019**,		6
213	Bi-objective online scheduling with quality of service for IaaS clouds **2014**,		6
212	Finding scalable configurations for AEDB broadcasting protocol using multi-objective evolutionary algorithms. *Cluster Computing*, **2013**, 16, 527-544	2.1	6
211	HPC Performance and Energy-Efficiency of the OpenStack Cloud Middleware **2014**,		6
210	On the energy optimization for precedence constrained applications using local search algorithms **2012**,		6
209	Generation of realistic mobility for VANETs using genetic algorithms **2012**,		6
208	Enhanced distance based broadcasting protocol with reduced energy consumption **2010**,		6
207	Adaptive Neighborhoods for Cellular Genetic Algorithms **2011**,		6
206	DIRECT RECIPROCITY-BASED COOPERATION IN MOBILE AD HOC NETWORKS. *International Journal of Foundations of Computer Science*, **2012**, 23, 501-521	0.6	6

205	Management of Overlay Networks: A Survey **2009**,		6
204	Cellular Programming and Symmetric Key Cryptography Systems. *Lecture Notes in Computer Science* , **2003**, 1369-1381	0.9	6
203	ANDES: Evaluating mapping strategies with synthetic programs. *Journal of Systems Architecture*, **1996**, 42, 351-365	5.5	6
202	A Multilayer Low-Altitude Airspace Model for UAV Traffic Management **2019**,		6
201	Differential Evolution Algorithms with Cellular Populations **2010**, 320-330		6
200	Evolutionary Algorithms Based on Game Theory and Cellular Automata with Coalitions. *Intelligent Systems Reference Library*, **2013**, 481-503	0.8	6
199	Swarm-based counter UAV defense system. *Discover Internet of Things*, **2021**, 1, 1		6
198	Emerging Inter-Swarm Collaboration for Surveillance Using Pheromones and Evolutionary Techniques. *Sensors*, **2020**, 20,	3.8	5
197	Profiling cloud applications with hardware performance counters **2014**,		5
196	Energy-aware VM Allocation on an Opportunistic Cloud Infrastructure **2013**,		5
195	Bayesian optimization approach of general bi-level problems **2017**,		5
194	VoIP service model for multi-objective scheduling in cloud infrastructure. *International Journal of Metaheuristics*, **2015**, 4, 185	0.8	5
193	Cloud service providers ranking based on service delivery and consumer experience **2015**,		5
192	DESIGN OPTIMIZATION OF INDUCTION MOTORS WITH DIFFERENTIAL EVOLUTION ALGORITHMS WITH AN APPLICATION IN TEXTILE SPINNING. *Applied Artificial Intelligence*, **2012**, 26, 809-831	2.3	5
191	Computational intelligence for cloud management current trends and opportunities **2013**,		5
190	Multi-objective robust static mapping of independent tasks on grids **2010**,		5
189	The Cost of Altruistic Punishment in Indirect Reciprocity-based Cooperation in Mobile Ad Hoc Networks **2010**,		5
188	A New Parallel Asynchronous Cellular Genetic Algorithm for de Novo Genomic Sequencing **2009**,		5

187	Novel efficient asynchronous cooperative co-evolutionary multi-objective algorithms **2012**,		5
186	Towards connectivity improvement in VANETs using bypass links **2009**,		5
185	An overview of achieving energy efficiency in on-chip networks. *International Journal of Communication Networks and Distributed Systems*, **2010**, 5, 444	0.4	5
184	Optimizing the Performance of an Unpredictable UAV Swarm for Intruder Detection. *Communications in Computer and Information Science*, **2020**, 37-48	0.3	5
183	A Bayesian Network Based Critical Infrastructure Risk Model. *Advances in Intelligent Systems and Computing*, **2013**, 207-218	0.4	5
182	Probabilistic Packet Relaying in Wireless Mobile Ad Hoc Networks. *Lecture Notes in Computer Science*, **2010**, 31-40	0.9	5
181	Bayesian optimisation to select Rössler system parameters used in Chaotic Ant Colony Optimisation for Coverage. *Journal of Computational Science*, **2020**, 41, 101047	3.4	5
180	Amazon Elastic Compute Cloud (EC2) vs. In-House HPC Platform: A Cost Analysis **2016**,		5
179	Multi-Objective Scientific-Workflow Scheduling With Data Movement Awareness in Cloud. *IEEE Access*, **2019**, 7, 177063-177081	3.5	5
178	Trustworthiness in IoT – A Standards Gap Analysis on Security, Data Protection and Privacy **2019**,		5
177	Link Definition Ameliorating Community Detection in Collaboration Networks. *Frontiers in Big Data*, **2019**, 2, 22	2.8	5
176	The Virtual Savant: Automatic generation of parallel solvers. *Information Sciences*, **2018**, 432, 411-430	7.7	4
175	Solving the three dimensional quadratic assignment problem on a computational grid. *Cluster Computing*, **2014**, 17, 205-217	2.1	4
174	VoIP Traffic Modelling Using Gaussian Mixture Models, Gaussian Processes and Interactive Particle Algorithms **2015**,		4
173	Detection of stable mobile communities in vehicular Ad Hoc Networks **2014**,		4
172	Generation of realistic traces for vehicular mobility simulations **2012**,		4
171	Study of different small-world topology generation mechanisms for Genetic Algorithms **2012**,		4
170	Convergence analysis of evolutionary algorithms in the presence of crash-faults and cheaters. *Computers and Mathematics With Applications*, **2012**, 64, 3805-3819	2.7	4

169	Distributed energy self-adaptation in ad hoc networks **2010**,		4
168	A multi-objective approach for high quality tree-based backbones in mobile ad hoc networks. *International Journal of Space-Based and Situated Computing*, **2012**, 2, 83	0.3	4
167	Behavior-Based Proactive Detection of Unknown Malicious Codes **2009**,		4
166	A combined DCA: GA for constructing highly nonlinear balanced boolean functions in cryptography. *Journal of Global Optimization*, **2010**, 47, 597-613	1.5	4
165	OPTIMAL INTERCONNECTION OF AD HOC INJECTION NETWORKS. *Journal of Interconnection Networks*, **2008**, 09, 277-297	0.4	4
164	Coevolutionary genetic algorithms for Ad hoc injection networks design optimization **2007**,		4
163	Blackbone2, an efficient deterministic algorithm for creating 2-connected m-dominating set-based backbones in ad hoc networks **2009**,		4
162	Validating a Peer-to-Peer Evolutionary Algorithm. *Lecture Notes in Computer Science*, **2012**, 436-445	0.9	4
161	Impact of Voltage Levels Number for Energy-Aware Bi-objective DAG Scheduling for Multi-processors Systems. *Communications in Computer and Information Science*, **2012**, 70-80	0.3	4
160	JShadObf: A JavaScript Obfuscator Based on Multi-Objective Optimization Algorithms. *Lecture Notes in Computer Science*, **2013**, 336-349	0.9	4
159	Evalix: Classification and Prediction of Job Resource Consumption on HPC Platforms. *Lecture Notes in Computer Science*, **2017**, 102-122	0.9	4
158	A Holistic Model of the Performance and the Energy-Efficiency of Hypervisors in an HPC Environment. *Lecture Notes in Computer Science*, **2013**, 133-152	0.9	4
157	Competitive Evolution of a UAV Swarm for Improving Intruder Detection Rates **2020**,		4
156	Biobjective VoIP Service Management in Cloud Infrastructure. *Scientific Programming*, **2016**, 2016, 1-14	1.4	4
155	UAV Multilevel Swarms for Situation Management **2016**,		4
154	. *IEEE Access*, **2021**, 9, 115466-115487	3.5	4
153	Collaborative Data Delivery for Smart City-Oriented Mobile Crowdsensing Systems **2018**,		4
152	Green Data Centers159-196		4

151	A Comparison Between Memetic Algorithm and Seeded Genetic Algorithm for Multi-objective Independent Task Scheduling on Heterogeneous Machines. *Studies in Computational Intelligence*, **2015**, 377-389	0.8	3
150	On Verifying and Assuring the Cloud SLA by Evaluating the Performance of SaaS Web Services Across Multi-cloud Providers **2018**,		3
149	ASIMUT project **2017**,		3
148	A new Co-evolutionary Algorithm Based on Constraint Decomposition **2017**,		3
147	Law as a service (LaaS): Enabling legal protection over a blockchain network **2017**,		3
146	Performance Metrics for Data Center Communication Systems **2015**,		3
145	Adopting trust and assurance as indicators for the reassignment of responsibilities in multi-agent systems. *Knowledge Engineering Review*, **2015**, 30, 187-200	2.1	3
144	Simulating communication processes in energy-efficient cloud computing systems **2012**,		3
143	A Parallel Multi-objective Local Search for AEDB Protocol Tuning **2013**,		3
142	On quantifying the quality of CDS-based virtual backbones in mobile ad hoc networks **2010**,		3
141	On the Resilience of [Distributed] EAs against Cheaters in Global Computing Platforms **2011**,		3
140	Green Flexible Opportunistic Computing with Virtualization **2011**,		3
139	Energy-Efficient Scheduling on Milliclusters with Performance Constraints **2011**,		3
138	A Review on Task Performance Prediction in Multi-core Based Systems **2011**,		3
137	On the generation of stable communities of users for dynamic mobile ad hoc social networks **2011**,		3
136	Sensitivity analysis for a realistic vehicular mobility model **2011**,		3
135	Social relevance of topological communities in ad hoc communication networks **2011**,		3
134	Designing a Self-Organized Approach for Scheduling Bag-of-Tasks **2012**,		3

133	PARALLEL HYBRID GENETIC ALGORITHMS FOR SOLVING Q3AP ON COMPUTATIONAL GRID. *International Journal of Foundations of Computer Science*, **2012**, 23, 483-500	0.6	3
132	Multi-objective Optimization for Information Sharing in Vehicular Ad Hoc Networks. *Communications in Computer and Information Science*, **2009**, 58-70	0.3	3
131	hLCGA: A Hybrid Competitive Coevolutionary Genetic Algorithm **2006**,		3
130	Optimal design of ad hoc injection networks by using genetic algorithms **2007**,		3
129	Efficient Data Sharing over Large-Scale Distributed Communities. *Studies in Computational Intelligence*, **2011**, 149-164	0.8	3
128	Cooperative Selection: Improving Tournament Selection via Altruism. *Lecture Notes in Computer Science*, **2014**, 85-96	0.9	3
127	Virtual Desktop Infrastructures: Architecture, survey and green aspects proof of concept **2016**,		3
126	A Memory-Based Label Propagation Algorithm for Community Detection. *Studies in Computational Intelligence*, **2019**, 171-182	0.8	3
125	Finding a robust configuration for the AEDB information dissemination protocol for mobile ad hoc networks. *Applied Soft Computing Journal*, **2015**, 32, 494-508	7.5	2
124	PRESENCE: Toward a novel approach for performance evaluation of mobile cloud SaaS Web Services **2018**,		2
123	Configurable cost-quality optimization of cloud-based VoIP. *Journal of Parallel and Distributed Computing*, **2019**, 133, 319-336	4.4	2
122	Local memory boosts label propagation for community detection. *Applied Network Science*, **2019**, 4,	2.9	2
121	Emerging Paradigms and Areas for Expansion. *IEEE Cloud Computing*, **2014**, 1, 58-61		2
120	Performance Evaluation of an IaaS Opportunistic Cloud Computing **2014**,		2
119	AEDB protocol tuning with a fast efficient parallel multi-objective local search. *International Journal of Ad Hoc and Ubiquitous Computing*, **2014**, 17, 144	0.7	2
118	Load-Aware Strategies for Cloud-Based VoIP Optimization with VM Startup Prediction **2017**,		2
117	Chaotic Traversal (CHAT): Very Large Graphs Traversal Using Chaotic Dynamics. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2017**, 27, 1750215	2	2
116	Trust Based Interdependency Weighting for On-Line Risk Monitoring in Interdependent Critical Infrastructures. *International Journal of Secure Software Engineering*, **2013**, 4, 47-69		2

115	Comparison of Multi-objective Optimization Algorithms for the JShadObf JavaScript Obfuscator **2014**,		2
114	Performance Analysis of Cloud Environments on Top of Energy-Efficient Platforms Featuring Low Power Processors **2014**,		2
113	Task Scheduling in Heterogeneous Computing Systems Using a MicroGA **2013**,		2
112	Performance Evaluation of Personal and General Data Classes for Trust Management in MANETs. *Journal of Information Processing*, **2011**, 19, 364-377	0.2	2
111	Interval-based initialization method for permutation-based problems **2010**,		2
110	Trust management for collusion prevention in mobile ad hoc networks **2010**,		2
109	Optimal design of induction motor for a spinning machine using population based metaheuristics **2010**,		2
108	Nature-Inspired Evaluation of Data Classes for Trust Management in MANETs **2011**,		2
107	Load balancing for sustainable ICT **2011**,		2
106	Enhancing the broadcast process in mobile ad hoc networks using community knowledge **2011**,		2
105	Optimization and Performance Analysis of the AEDB Broadcasting Algorithm **2011**,		2
104	On the improvement of the enhanced distance-based broadcasting algorithm. *International Journal of Communication Networks and Distributed Systems*, **2012**, 9, 225	0.4	2
103	UrbiSim: A framework for simulation of ad hoc networks in realistic urban environment **2009**,		2
102	Management challenges for emerging networks and services **2009**,		2
101	Performance of a Strategy Based Packets Forwarding in Ad Hoc Networks **2008**,		2
100	Evolution of cooperation in ad hoc networks under game theoretic model **2006**,		2
99	Reducing Overfitting and Improving Generalization in Training Convolutional Neural Network (CNN) under Limited Sample Sizes in Image Recognition **2020**,		2
98	Automating the Design of Efficient Distributed Behaviours for a Swarm of UAVs **2020**,		2

97	Management Challenges for Emerging Wireless Networks **2011**, 3-34		2
96	Metaheuristics for the Virtual Machine Mapping Problem in Clouds. *Informatica*, **2015**, 26, 111-134	2.9	2
95	How to Efficiently Solve Internet Shopping Optimization Problem with Price Sensitive Discounts? **2014**,		2
94	Weak Key Analysis and Micro-controller Implementation of CA Stream Ciphers. *Lecture Notes in Computer Science*, **2005**, 910-915	0.9	2
93	Visualizing the Template of a Chaotic Attractor. *Lecture Notes in Computer Science*, **2018**, 106-119	0.9	2
92	Autonomous Flight of Unmanned Aerial Vehicles Using Evolutionary Algorithms. *Communications in Computer and Information Science*, **2020**, 337-352	0.3	2
91	Local Community Detection Algorithm with Self-defining Source Nodes. *Studies in Computational Intelligence*, **2021**, 200-210	0.8	2
90	A New Integer Linear Programming Model for the Cutwidth Minimization Problem of a Connected Undirected Graph. *Studies in Computational Intelligence*, **2014**, 509-517	0.8	2
89	A Novel Multi-objectivisation Approach for Optimising the Protein Inverse Folding Problem. *Lecture Notes in Computer Science*, **2015**, 14-25	0.9	2
88	Soft Computing Techniques for Intrusion Detection of SQL-Based Attacks. *Lecture Notes in Computer Science*, **2010**, 33-42	0.9	2
87	Deskilling HPL. *Lecture Notes in Computer Science*, **2010**, 102-114	0.9	2
86	Oversized Populations and Cooperative Selection: Dealing with Massive Resources in Parallel Infrastructures. *Lecture Notes in Computer Science*, **2013**, 444-449	0.9	2
85	Analysis of the Data Flow in the Newscast Protocol for Possible Vulnerabilities. *Communications in Computer and Information Science*, **2014**, 89-99	0.3	2
84	Trajectory Metaheuristics for the Internet Shopping Optimization Problem. *Studies in Computational Intelligence*, **2015**, 527-536	0.8	2
83	Energy Efficiency and High-Performance Computing197-224		2
82	Satellite Payload Reconfiguration Optimisation: An ILP Model. *Lecture Notes in Computer Science*, **2012**, 311-320	0.9	2
81	Support Tool for a Bayesian Network Based Critical Infrastructure Risk Model. *Studies in Computational Intelligence*, **2014**, 53-75	0.8	2
80	Performance Analysis of Distributed and Scalable Deep Learning **2020**,		2

79	CONSOLE: intruder detection using a UAV swarm and security rings. *Swarm Intelligence*, **2021**, 15, 205-235		2
78	Using Virtual Desktop Infrastructure to Improve Power Efficiency in Grinfy System **2016**,		2
77	Hybrid mobility model with pheromones for UAV detection task **2016**,		2
76	Reconciling task assignment and scheduling in mobile edge clouds **2016**,		2
75	A parallel cooperative coevolutionary SMPSO algorithm for multi-objective optimization **2016**,		2
74	A transport layer approach to improve energy efficiency **2016**,		2
73	Crowdsensed Data Learning-Driven Prediction of Local Businesses Attractiveness in Smart Cities **2019**,		2
72	PRESENCE: Monitoring and Modelling the Performance Metrics of Mobile Cloud SaaS Web Services. *Mobile Information Systems*, **2018**, 2018, 1-14	1.4	2
71	Clustering approaches for visual knowledge exploration in molecular interaction networks. *BMC Bioinformatics*, **2018**, 19, 308	3.6	2
70	Dafo, a Multi-agent Framework for Decomposable Functions Optimization. *Lecture Notes in Computer Science*, **2005**, 626-632	0.9	2
69	Energy efficiency of TCP: An analytical model and its application to reduce energy consumption of the most diffused transport protocol. *International Journal of Communication Systems*, **2017**, 30, e2934	1.7	1
68	Optimizing communication satellites payload configuration with exact approaches. *Engineering Optimization*, **2015**, 47, 1709-1734	2	1
67	A vertex-similarity clustering algorithm for community detection. *Journal of Information and Telecommunication*, **2020**, 4, 36-50	1.4	1
66	A Competitive Approach for Bi-Level Co-Evolution **2018**,		1
65	Comparing the Performance and Power Usage of GPU and ARM Clusters for Map-Reduce **2013**,		1
64	Savant: Automatic parallelization of a scheduling heuristic with machine learning **2013**,		1
63	Self-Regulated Multi-criteria Decision Analysis: An Autonomous Brokerage-Based Approach for Service Provider Ranking in the Cloud **2017**,		1
62	A new model for VMMP dealing with execution time uncertainty in a multi-clouds system **2015**,		1

61	Graph-Based Cellular Automata Approach to Maximum Lifetime Coverage Problem in Wireless Sensor Networks **2014**,		1
60	NC-CELL: Network coding-based content distribution in cellular networks for cloud applications **2014**,		1
59	The Necessity for Strong Reciprocators in Mobile Ad Hoc Networks **2012**,		1
58	Minimising longest path length in communication satellite payloads via metaheuristics **2013**,		1
57	An Overlay Approach for Optimising Small-World Properties in VANETs. *Lecture Notes in Computer Science*, **2013**, 32-41	0.9	1
56	An improved genetic algorithm for efficient scheduling on distributed memory parallel systems **2010**,		1
55	Token Traversal Strategies of a Distributed Spanning Forest Algorithm in Mobile Ad Hoc - Delay Tolerant Networks. *Communications in Computer and Information Science*, **2009**, 96-109	0.3	1
54	Evolution of Strategy Driven Behavior in Ad Hoc Networks Using a Genetic Algorithm **2007**,		1
53	SuSy-EnGaD: Surveillance System Enhanced by Games of Drones. *Drones*, **2022**, 6, 13	5.4	1
52	From communities to protein complexes: A local community detection algorithm on PPI networks.. *PLoS ONE*, **2022**, 17, e0260484	3.7	1
51	Automated design of efficient swarming behaviours **2020**,		1
50	Analysis of Distributed Packet Forwarding Strategies in Ad Hoc Networks **2008**, 68-77		1
49	Optimization of Carsharing Fleet Placement in Round-Trip Carsharing Service. *Applied Sciences (Switzerland)*, **2021**, 11, 11393	2.6	1
48	Cloud Brokering with Bundles: Multi-objective Optimization of Services Selection. *Foundations of Computing and Decision Sciences*, **2019**, 44, 407-426	0.7	1
47	Energy Efficiency in HPC Data Centers: Latest Advances to Build the Path to Exascale **2015**, 81-107		1
46	Energy Savings on a Cloud-Based Opportunistic Infrastructure. *Lecture Notes in Computer Science*, **2014**, 366-378	0.9	1
45	Exploiting the Hard-Wired Vulnerabilities of Newscast via Connectivity-Splitting Attack. *Lecture Notes in Computer Science*, **2014**, 152-165	0.9	1
44	Iterated Local Search for de Novo Genomic Sequencing. *Lecture Notes in Computer Science*, **2010**, 428-436	0.9	1

43	Application of Cellular Automata in Symmetric Key Cryptography. *Communications in Computer and Information Science*, **2010**, 154-163	0.3	1
42	A Multi-Agent Organizational Framework for Coevolutionary Optimization. *Lecture Notes in Computer Science*, **2010**, 199-224	0.9	1
41	Workflow Scheduling on Virtualized Servers. *Studies in Computational Intelligence*, **2014**, 247-254	0.8	1
40	A new modeling approach for the biobjective exact optimization of satellite payload configuration. *International Transactions in Operational Research*, **2019**, 26, 180-199	2.9	1
39	A Q-Learning Based Hyper-Heuristic for Generating Efficient UAV Swarming Behaviours. *Lecture Notes in Computer Science*, **2021**, 768-781	0.9	1
38	Community Detection in Complex Networks: A Survey on Local Approaches. *Lecture Notes in Computer Science*, **2021**, 757-767	0.9	1
37	Computational Intelligence for Cloud Computing [Guest Editorial]. *IEEE Computational Intelligence Magazine*, **2015**, 10, 18-51	5.6	0
36	Introduction to Evolutionary Algorithms **2014**, 27-47		0
35	Design Challenges of Trustworthy Artificial Intelligence Learning Systems. *Communications in Computer and Information Science*, **2020**, 574-584	0.3	0
34	Architectures and Information Signaling Techniques for Cognitive Networks. *Advances in Wireless Technologies and Telecommunication Book Series*, **2013**, 286-300	0.2	0
33	A competitive Predator–Prey approach to enhance surveillance by UAV swarms. *Applied Soft Computing Journal*, **2021**, 111, 107701	7.5	0
32	Realistic Vehicular Mobility **2014**, 191-207		
31	Proposed Optimization Framework **2014**, 105-134		
30	Network Topology **2014**, 173-189		
29	Broadcasting Protocol **2014**, 135-152		
28	Energy Management **2014**, 153-171		
27	Survey on Optimization Problems for Mobile Ad Hoc Networks **2014**, 49-78		
26	Collective Behaviour of Cellular Automata Rules and Symmetric Key Cryptography **2006**, 131-140		

25	Proximal Policy Optimisation for a Private Equity Recommitment System. *Communications in Computer and Information Science*, **2022**, 203-217	0.3
24	Network Traffic Analysis Using Immunological and Evolutionary Paradigms **2006**, 359-363	
23	Tracing SQL Attacks Via Neural Networks **2008**, 549-558	
22	A Context-Aware Broadcast Protocol for Mobile Wireless Networks. *Communications in Computer and Information Science*, **2008**, 507-519	0.3
21	Evolutionary Algorithms for the Inverse Protein Folding Problem **2018**, 1-25	
20	Automatic Software Tuning of Parallel Programs for Energy-Aware Executions. *Lecture Notes in Computer Science*, **2020**, 144-155	0.9
19	Innovation Networks from Inter-organizational Research Collaborations. *Studies in Computational Intelligence*, **2021**, 361-375	0.8
18	Weakness Analysis of a Key Stream Generator Based on Cellular Automata. *Lecture Notes in Computer Science*, **2010**, 547-552	0.9
17	Perspectives of Selfish Behaviour in Mobile Ad Hoc Networks. *Lecture Notes in Computer Science*, **2011**, 297-304	0.9
16	Efficient Hierarchical Task Scheduling on GRIDS Accounting for Computation and Communications. *Studies in Computational Intelligence*, **2011**, 25-47	0.8
15	The Application of Evolutionary Heuristics for Solving Soft Security Issues in MANETs. *Studies in Computational Intelligence*, **2012**, 97-114	0.8
14	Solving Soft Security Problem in MANETs Using an Evolutionary Approach. *Lecture Notes in Computer Science*, **2012**, 33-44	0.9
13	A Signature Scheme for Distributed Executions Based on Control Flow Analysis. *Lecture Notes in Computer Science*, **2012**, 85-102	0.9
12	Social Network Analysis Techniques for Social-Oriented Mobile Communication Networks **2012**, 51-80	
11	Building Platform as a Service for High Performance Computing over an Opportunistic Cloud Computing. *Lecture Notes in Computer Science*, **2013**, 380-389	0.9
10	Dependency Analysis for Critical Infrastructure Security Modelling: A Case Study within the Grid5000 Project. *Lecture Notes in Computer Science*, **2013**, 269-287	0.9
9	Applications of Nature Inspired Algorithms for Electrical Engineering Optimization Problems. *Intelligent Systems Reference Library*, **2013**, 991-1024	0.8
8	Challenges on Probabilistic Modeling for Evolving Networks. *Studies in Computational Intelligence*, **2014**, 77-93	0.8

List of Publications

7	Optimizing AEDB Broadcasting Protocol with Parallel Multi-objective Cooperative Coevolutionary NSGA-II. *Lecture Notes in Computer Science*, **2014**, 39-50	0.9
6	It's Not a Bug, It's a Feature: Wait-Free Asynchronous Cellular Genetic Algorithm. *Lecture Notes in Computer Science*, **2014**, 361-370	0.9
5	Crowdsensing architectures for smart cities **2020**, 527-542	
4	Reducing Efficiency of Connectivity-Splitting Attack on Newscast via Limited Gossip. *Lecture Notes in Computer Science*, **2016**, 299-314	0.9
3	Protection of Personal Data in High Performance Computing Platform for Scientific Research Purposes. *Lecture Notes in Computer Science*, **2021**, 123-142	0.9
2	Improving Pheromone Communication for UAV Swarm Mobility Management. *Lecture Notes in Computer Science*, **2021**, 228-240	0.9
1	Evolutionary Algorithms for the Inverse Protein Folding Problem **2018**, 999-1023	