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Abandoning objectives: evolution through the search for novelty alone

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#	Paper	IF	Citations
500	Guest Editorial Active Learning and Intrinsically Motivated Exploration in Robots: Advances and Challenges. 2010 , 2, 65-69		29
499	Why and how to measure exploration in behavioral space. 2011 ,		10
498	On the relationships between synaptic plasticity and generative systems. 2011 ,		11
497	Automated modeling of stochastic reactions with large measurement time-gaps. 2011,		2
496	On the deleterious effects of a priori objectives on evolution and representation. 2011 ,		25
495	Critical factors in the performance of novelty search. 2011,		19
494	Evolving neural networks. 2011 ,		
493	How to promote generalisation in evolutionary robotics. 2011,		8
492	. 2011,		21
491	Evolving a diversity of virtual creatures through novelty search and local competition. 2011,		140
490	Evolving neural networks. 2012 ,		1
489	Dynamic behavioral diversity. 2012 ,		1
488	From Animals to Animats 12. Lecture Notes in Computer Science, 2012,	0.9	
487	Encouraging behavioral diversity in evolutionary robotics: an empirical study. <i>Evolutionary Computation</i> , 2012 , 20, 91-133	4.3	152
486	An enhanced hypercube-based encoding for evolving the placement, density, and connectivity of neurons. 2012 , 18, 331-63		29
485	Evolving team behaviors with specialization. 2012 , 13, 493-536		14
484	Evolutionary Optimization: Pitfalls and Booby Traps. 2012 , 27, 907-936		84

(2013-2012)

483	Environment-driven distributed evolutionary adaptation in a population of autonomous robotic agents. 2012 , 18, 101-129	61
482	Evolution of swarm robotics systems with novelty search. 2013 , 7, 115-144	65
481	Recent advances in problem understanding. 2013,	4
480	Genetic Programming. Lecture Notes in Computer Science, 2013 , 0.9	1
479	Information-seeking, curiosity, and attention: computational and neural mechanisms. 2013, 17, 585-93	330
478	Behavioral repertoire learning in robotics. 2013,	30
477	Toward nonlinear local reinforcement learning rules through neuroevolution. 2013 , 25, 3020-43	5
476	Searching for novel regression functions. 2013,	10
475	. 2013,	
474	Behavioral diversity with multiple behavioral distances. 2013 ,	15
473	Evolutionary robotics. 2013 , 56, 74-83	51
472	Niching by multiobjectivization with neighbor information: Trade-offs and benefits. 2013,	19
471	The evolutionary origins of modularity. 2013 , 280, 20122863	337
470	Effective diversity maintenance in deceptive domains. 2013,	26
469	Right on the MONEE. 2013,	7
468	Evolution of station keeping as a response to flows in an aquatic robot. 2013 ,	1
467	A behavior-based analysis of modal problems. 2013,	2
466	A measure-theoretic analysis of stochastic optimization. 2013 ,	4

465	Generic behaviour similarity measures for evolutionary swarm robotics. 2013,		20
464	Enhancements to constrained novelty search. 2013,		17
463	Single-unit pattern generators for quadruped locomotion. 2013,		15
462	Searching for novel clustering programs. 2013,		17
461	Confronting the challenge of learning a flexible neural controller for a diversity of morphologies. 2013 ,		7
460	Applying evolutionary computation to harness passive material properties in robots. 2013,		1
459	Comparative Psychology as Unified Psychology: The Case of Curiosity and Other Novelty-Related Behavior. 2013 , 17, 224-229		3
458	Encouraging reactivity to create robust machines. 2013 , 21, 484-500		15
457	Learning the Caesar and Vigenere Cipher by hierarchical evolutionary re-combination. 2013,		10
456	Muscle-based skeletal bipedal locomotion using neural evolution. 2013,		2
455	Novelty and interestingness measures for design-space exploration. 2013,		7
454	Theory and Practice of Natural Computing. Lecture Notes in Computer Science, 2013,	0.9	
453	Naturally selecting solutions: the use of genetic algorithms in bioinformatics. 2013, 4, 266-78		17
452	Evolving neural networks. 2013 ,		
451	On the relationships between generative encodings, regularity, and learning abilities when evolving plastic artificial neural networks. <i>PLoS ONE</i> , 2013 , 8, e79138	3.7	18
450	Evolutionary Robotics: Model or Design?. Frontiers in Robotics and AI, 2014, 1,	2.8	18
449	The C2create authoring tool: Fostering creativity via game asset creation. 2014,		
448	Evolving neural networks. 2014 ,		2

447	How evolvable is novelty search?. 2014 ,	5
446	Encouraging creative thinking in robots improves their ability to solve challenging problems. 2014 ,	3
445	Behavioral programming. 2014 ,	35
444	A novel human-computer collaboration. 2014 ,	19
443	Flood evolution. 2014,	
442	Novelty search creates robots with general skills for exploration. 2014 ,	13
441	Evolving exact integer algorithms with Genetic Programming. 2014,	3
440	Searching for good and diverse game levels. 2014 ,	15
439	Theory and Practice of Natural Computing. <i>Lecture Notes in Computer Science</i> , 2014 , 0.9	1
438	Novelty-organizing team of classifiers - A team-individual multi-objective approach to reinforcement learning. 2014 ,	3
437	Frequency Fitness Assignment. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 226-243 15.	6 10
436	Using augmenting modular neural networks to evolve neuro-controllers for a team of underwater vehicles. 2014 , 18, 2445-2460	6
435	An evolutionary cognitive architecture made of a bag of networks. 2014 , 7, 169-182	1
434	Object Learning Through Active Exploration. 2014 , 6, 56-72	38
433	Overcoming deception in evolution of cognitive behaviors. 2014,	13
432	General Self-Motivation and Strategy Identification: Case Studies Based on Sokoban and Pac-Man. 2014 , 6, 1-17	12
431	Beyond black-box optimization: a review of selective pressures for evolutionary robotics. 2014 , 7, 71-93	60
430	Embodied artificial life at an impasse can evolutionary robotics methods be scaled?. 2014 ,	2

429 Indirectly Encoding Running and Jumping Sodarace Creatures for Artificial Life. **2015**, 21, 432-44

428	Automatic Locomotion Generation for a UBot Modular Robot ITowards Both High-Speed and Multiple Patterns. 2015 , 12, 32		8
427	Evolutionary Robotics: What, Why, and Where to. Frontiers in Robotics and AI, 2015, 2,	2.8	92
426	Improving Evolvability of Morphologies and Controllers of Developmental Soft-Bodied Robots with Novelty Search. <i>Frontiers in Robotics and AI</i> , 2015 , 2,	2.8	4
425	Recent Advances in General Game Playing. 2015, 2015, 986262		16
424	The Interesting and the Novel. 2015 , 39-54		
423	Predictive feature selection for genetic policy search. 2015 , 29, 754-786		3
422	Reconciling explanations for the evolution of evolvability. 2015 , 23, 171-179		12
421	Novelty-organizing team of classifiers in noisy and dynamic environments. 2015,		7
420	Augmenting Interactive Evolution with Multi-objective Optimization. 2015,		
419	Suggestion-based interactive video digest design by user-system cooperative evolution. 2015,		O
418	BrainCrafter: An investigation into human-based neural network engineering. 2015,		1
417	Evolvability of representations in complex system engineering: A survey. 2015,		3
416	Evolving Neural Networks. 2015,		
415	Searching for novelty in pole balancing. 2015 ,		О
414	Bootstrapping interactions with objects from raw sensorimotor data: A novelty search based approach. 2015 ,		3
413	Constrained novelty search: a study on game content generation. <i>Evolutionary Computation</i> , 2015 , 23, 101-29	4.3	25
412	Artificial Evolution of Autonomous Robots and Virtual Creatures. 2015 , 637-645		

(2015-2015)

411	Restricted Intervals in Preference Dynamics: Theory and Application in an Agent-Based System. 2015 , 45, 571-583		2
410	Enhancing Divergent Search through Extinction Events. 2015 ,		7
409	Novelty-Based Evolutionary Design of Morphing Underwater Robots. 2015,		18
408	AutoMoDe-Chocolate: automatic design of control software for robot swarms. 2015 , 9, 125-152		48
407	General subpopulation framework and taming the conflict inside populations. <i>Evolutionary Computation</i> , 2015 , 23, 1-36	4.3	8
406	Four concepts for resilience and the implications for the future of resilience engineering. 2015 , 141, 5-9		320
405	Investigating Biological Assumptions through Radical Reimplementation. 2015, 21, 21-46		4
404	Evolvability signatures of generative encodings: Beyond standard performance benchmarks. <i>Information Sciences</i> , 2015 , 313, 43-61	7.7	10
403	Turn-based evolution in a simplified model of artistic creative process. 2015, 8, 37-50		4
402	Why Greatness Cannot Be Planned. 2015 ,		29
401	Combining Conflicting Environmental and Task Requirements in Evolutionary Robotics. 2015,		5
400	Tutorial on Evolutionary Robotics. 2015 ,		
399	Innovation Engines. 2015 ,		34
398	Confronting the Challenge of Quality Diversity. 2015,		42
397	Devising Effective Novelty Search Algorithms. 2015 ,		34
396	An Efficient Structural Diversity Technique for Genetic Programming. 2015 ,		12
395	Novelty Search for Soft Robotic Space Exploration. 2015 ,		15
394	odNEAT: An Algorithm for Decentralised Online Evolution of Robotic Controllers. <i>Evolutionary Computation</i> , 2015 , 23, 421-49	4.3	26

393	Wave. 2015 ,	1
392	Evolutionary discovery of self-stabilized dynamic gaits for a soft underwater legged robot. 2015 ,	11
391	Evolution of Hybrid Robotic Controllers for Complex Tasks. 2015 , 78, 463-484	12
390	Cooperative collvolutionary neural networks. 2016 , 30, 2843-2858	4
389	Harnessing Phenotypic Diversity towards Multiple Independent Objectives. 2016,	
388	Evolvability as a quality criterion for linear deformation representations in evolutionary optimization. 2016 ,	2
387	The Evolutionary Origins of Hierarchy. 2016 , 12, e1004829	69
386	Evolution of Collective Behaviors for a Real Swarm of Aquatic Surface Robots. <i>PLoS ONE</i> , 2016 , 11, e015383	4 65
385	Behavioral Diversity Generation in Autonomous Exploration through Reuse of Past Experience. Frontiers in Robotics and Al, 2016 , 3,	13
384	Automatic Design of Robot Swarms: Achievements and Challenges. <i>Frontiers in Robotics and AI</i> , 2016, 3,	43
383	Quality Diversity: A New Frontier for Evolutionary Computation. <i>Frontiers in Robotics and AI</i> , 2016 , 3,	115
382	On the Critical Role of Divergent Selection in Evolvability. <i>Frontiers in Robotics and AI</i> , 2016 , 3, 2.8	5
381	Understanding Innovation Engines: Automated Creativity and Improved Stochastic Optimization via Deep Learning. <i>Evolutionary Computation</i> , 2016 , 24, 545-72	24
380	Evolving genetic programming classifiers with novelty search. <i>Information Sciences</i> , 2016 , 369, 347-367 7.7	9
379	Neuroevolution of a Hybrid Power Plant Simulator. 2016,	1
378	Inspiration-Triggered Search. 2016 ,	
377	Reducing Antagonism between Behavioral Diversity and Fitness in Semantic Genetic Programming. 2016 ,	5
376	Intrinsically motivated reinforcement learning: A promising framework for procedural content generation. 2016 ,	3

375	Accelerating the Evolution of Cognitive Behaviors Through Human-Computer Collaboration. 2016,		5
374	Evolutionary strategies for novelty-based online neuroevolution in swarm robotics. 2016 ,		4
373	New prospects for state-of-the-art technologies in digital humanities: The CrossCult H2020 project: Keynote talk. 2016 ,		
372	Breeding a diversity of Super Mario behaviors through interactive evolution. 2016 ,		6
371	On Synergies between Diversity and Task Decomposition in Constructing Complex Systems with GP. 2016 ,		1
370	Gaining Insight into Quality Diversity. 2016 ,		7
369	On novelty driven evolution in Poker. 2016 ,		
368	Hybridizing novelty search for transfer learning. 2016,		1
367	Identifying Core Functional Networks and Functional Modules within Artificial Neural Networks via Subsets Regression. 2016 ,		2
366	Online Hyper-evolution of Controllers in Multirobot Systems. 2016 ,		1
365	Interactive Super Mario Bros Evolution. 2016 ,		1
364	Evolving Neural Turing Machines for Reward-based Learning. 2016 ,		14
363	A Comparison Between Representations for Evolving Images. <i>Lecture Notes in Computer Science</i> , 2016 , 163-185	0.9	2
362	Exploring the Visual Styles of Arcade Game Assets. <i>Lecture Notes in Computer Science</i> , 2016 , 92-109	0.9	6
361	Applications of Evolutionary Computation. Lecture Notes in Computer Science, 2016,	0.9	1
360	Defining and simulating open-ended novelty: requirements, guidelines, and challenges. 2016 , 135, 131-	-61	34
	Evolutionary and Biologically Inspired Music, Sound, Art and Design. Lecture Notes in Computer	0.9	0
359	Science, 2016 ,	0.9	

357	Artificial Metamorphosis: Evolutionary Design of Transforming, Soft-Bodied Robots. 2016 , 22, 271-98		12
356	Cooperative Coevolution of Control for a Real Multirobot System. <i>Lecture Notes in Computer Science</i> , 2016 , 591-601	0.9	8
355	Intrinsic motivation, curiosity, and learning: Theory and applications in educational technologies. 2016 , 229, 257-284		85
354	Open-Ended Evolution: Perspectives from the OEE Workshop in York. 2016 , 22, 408-23		45
353	Evolutionary Procedural 2D Map Generation using Novelty Search. 2016,		O
352	Evolving Neural Networks. 2016 ,		3
351	Using Exploration Focused Techniques to Augment Search-Based Software Testing: An Experimental Evaluation. 2016 ,		4
350	Topics in Evolutinary Algorithms. 2016 , 121-152		
349	Swarm Robotics. 2016 , 1-19		6
348	Dynamical analysis of recurrent neural circuits in articulated limb controllers for tool use. 2016 ,		1
347	How do Different Encodings Influence the Performance of the MAP-Elites Algorithm?. 2016,		21
346	Simple Evolutionary Optimization Can Rival Stochastic Gradient Descent in Neural Networks. 2016 ,		49
345	Searching for Quality Diversity When Diversity is Unaligned with Quality. <i>Lecture Notes in Computer Science</i> , 2016 , 880-889	0.9	6
344	Evolving Novel Cellular Automaton Seeds Using Compositional Pattern Producing Networks (CPPN). 2016 ,		
343	Constrained surprise search for content generation. 2016,		5
342	Learning Behavior Characterizations for Novelty Search. 2016 ,		16
341	Evolvability Search. 2016 ,		7
340	Intrinsically motivated particle swarm optimisation applied to task allocation for workplace hazard detection. 2016 , 24, 219-236		8

339	Artificial Immunology for Collective Adaptive Systems Design and Implementation. 2016 , 11, 1-25		4
338	neat Genetic Programming: Controlling bloat naturally. <i>Information Sciences</i> , 2016 , 333, 21-43	7.7	31
337	Behavioral plasticity through the modulation of switch neurons. 2016 , 74, 35-51		7
336	Global versus local search: the impact of population sizes on evolutionary algorithm performance. 2016 , 66, 511-534		15
335	Behavioral Program Synthesis with Genetic Programming. <i>Studies in Computational Intelligence</i> , 2016 ,	0.8	34
334	Evolving a Behavioral Repertoire for a Walking Robot. <i>Evolutionary Computation</i> , 2016 , 24, 59-88	4.3	41
333	Open Issues in Evolutionary Robotics. <i>Evolutionary Computation</i> , 2016 , 24, 205-36	4.3	58
332	Competitive Algorithms for Coevolving Both Game Content and Al. A Case Study: Planet Wars. 2016 , 8, 325-337		7
331	On multiobjective selection for multimodal optimization. 2016 , 63, 875-902		5
330	Novelty-Driven Cooperative Coevolution. <i>Evolutionary Computation</i> , 2017 , 25, 275-307	4.3	15
329	Online Discovery of Search Objectives for Test-Based Problems. <i>Evolutionary Computation</i> , 2017 , 25, 375-406	4.3	7
328	The training set and generalization in grammatical evolution for autonomous agent navigation. 2017 , 21, 4399-4416		3
327	Using Models to Explore Possible Futures (Contingency and Complexity). 2017, 81-95		1
326	Urban Dynamics and Simulation Models. 2017,		11
325	Introduction to Unconventional Computing. 2017 , 1-21		
324	Combination of Video Change Detection Algorithms by Genetic Programming. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 914-928	15.6	96
222			
323	1D Printing of Recyclable Robots. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1964-1971	4.2	16

321	Overcoming Initial Convergence in Multi-objective Evolution of Robot Control and Morphology Using a Two-Phase Approach. <i>Lecture Notes in Computer Science</i> , 2017 , 825-836	0.9	6
320	Improved search methods for assessing Delay-Tolerant Networks vulnerability to colluding strong heterogeneous attacks. 2017 , 80, 311-322		5
319	Coupling novelty and surprise for evolutionary divergence. 2017,		5
318	Autonomous Unmanned Aerial Vehicle (UAV) landing in windy conditions with MAP-Elites. 2017 , 32,		O
317	Hyper-Learning Algorithms for Online Evolution of Robot Controllers. 2017 , 12, 1-26		
316	Evolution of neural networks. 2017 ,		8
315	A simple bucketing based approach to diversity maintenance. 2017 ,		2
314	Learning highly diverse robot throwing movements through quality diversity search. 2017,		7
313	Evolutionary online behaviour learning and adaptation in real robots. 2017, 4, 160938		9
312	On the combination of coevolution and novelty search. 2017 ,		
311	The Origin of Insight in Mathematics. 2017 , 135-146		7
310	On the origin of synthetic life: attribution of output to a particular algorithm. 2017 , 92, 013002		2
309	Mixed-initiative procedural generation of dungeons using game design patterns. 2017,		13
308	Comparing multimodal optimization and illumination. 2017,		7
307	Empowered skills. 2017 ,		1
306	Analyzing deception, evolvability, and behavioral rarity in evolutionary robotics. 2017,		
305	Minimal criterion coevolution. 2017,		10
304	Optimizing genetic algorithm for protein crystallization screening using an exploratory fitness function. 2017 ,		4

303 Chairs' welcome for GECCO'17 workshop "evolution in cognition". **2017**,

302	A comparison of illumination algorithms in unbounded spaces. 2017 ,		9
301	Evolutionary Policy Transfer and Search Methods for Boosting Behavior Quality: RoboCup Keep-Away Case Study. <i>Frontiers in Robotics and AI</i> , 2017 , 4,	2.8	2
300	Exploring divergence in soft robot evolution. 2017,		3
299	A String-Based Representation and Crossover Operator for Evolutionary Design of Dynamical Mechanisms. <i>IEEE Robotics and Automation Letters</i> , 2018 , 3, 1600-1607	4.2	2
298	Computational Motivation, Autonomy and Trustworthiness: Can We Have It All?. 2018 , 293-316		
297	Discovery and Exploration of Novel Swarm Behaviors Given Limited Robot Capabilities. 2018 , 447-460		7
296	Discovering Agent Behaviors Through Code Reuse: Examples From Half-Field Offense and Ms. Pac-Man. 2018 , 10, 195-208		4
295	Art in the Sciences of the Artificial. 2018 , 51, 165-172		3
294	Bootstrapping \$Q\$ -Learning for Robotics From Neuro-Evolution Results. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018 , 10, 102-119	3	12
293	Cooperative Co-Evolution-Based Design Optimization: A Concurrent Engineering Perspective. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 173-188	15.6	7
292	Evolution of Repertoire-Based Control for Robots With Complex Locomotor Systems. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 314-328	15.6	28
291	Quality and Diversity Optimization: A Unifying Modular Framework. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 245-259	15.6	59
2 90	. IEEE Transactions on Evolutionary Computation, 2018 , 22, 623-630	15.6	32
289	Automated Curriculum Learning by Rewarding Temporally Rare Events. 2018,		2
288	Toward Computational Motivation for Multi-Agent Systems and Swarms. <i>Frontiers in Robotics and AI</i> , 2018 , 5, 134	2.8	2
287	Evolving Controllers for a Transformable Wheel Mobile Robot. 2018 , 2018, 1-12		3
286	Insights in evolutionary exploration of robot morphology spaces. 2018,		2

285	Creative arcs in improvised human-computer embodied performances. 2018,		6
284	The Emergence of Canalization and Evolvability in an Open-Ended, Interactive Evolutionary System. 2018 , 24, 157-181		4
283	Intrinsically Motivated Agent Behavior in a Swarm. 2018,		1
282	Objective versus Non-Objective Search in Evolving Morphologically Robust Robot Controllers. 2018		
281	The N-Tuple Bandit Evolutionary Algorithm for Game Agent Optimisation. 2018,		13
2 80	Maintaining Diversity in Robot Swarms with Distributed Embodied Evolution. <i>Lecture Notes in Computer Science</i> , 2018 , 395-402	0.9	1
279	Fusing novelty and surprise for evolving robot morphologies. 2018,		3
278	Evolution of fin undulation on a physical knifefish-inspired soft robot. 2018,		4
277	Enhanced Optimization with Composite Objectives and Novelty Selection. 2018,		3
276	Towards Game-based Metrics for Computational Co-Creativity. 2018,		2
275	ES is more than just a traditional finite-difference approximator. 2018,		14
274	Task-Agnostic Evolution of Diverse Repertoires of Swarm Behaviours. <i>Lecture Notes in Computer Science</i> , 2018 , 225-238	0.9	3
273	Industrial Portfolio Management for Many-Objective Optimization Algorithms. 2018,		4
272	Evolutionary-learning framework: improving automatic swarm robotics design. 2018 , 6, 197-215		6
271	Being curious about the answers to questions: novelty search with learned attention. 2018,		
270	Observation of Unbounded Novelty in Evolutionary Algorithms is Unknowable. <i>Lecture Notes in Computer Science</i> , 2018 , 395-404	0.9	
269	Emergent Solutions to High-Dimensional Multitask Reinforcement Learning. <i>Evolutionary Computation</i> , 2018 , 26, 347-380	4.3	17
268	An approach to evolve and exploit repertoires of general robot behaviours. 2018, 43, 265-283		4

(2019-2018)

267	Born to learn: The inspiration, progress, and future of evolved plastic artificial neural networks. 2018 , 108, 48-67		48
266	Embodied Evolution in Collective Robotics: A Review. Frontiers in Robotics and AI, 2018, 5, 12	2.8	37
265	Joint dyadic action: Error correction by two persons works better than by one alone. 2018 , 61, 1-18		3
264	Evolution of neural networks. 2018 ,		
263	A neuroevolution strategy using multi-agent incorporated hierarchical ensemble model. 2018,		
262	Policy transfer methods in RoboCup keep-away. 2018 ,		
261	Designing control software for robot swarms. 2018 ,		7
260	Safe mutations for deep and recurrent neural networks through output gradients. 2018,		19
259	Data-efficient neuroevolution with kernel-based surrogate models. 2018,		6
258	VINE. 2018 ,		2
257	Data-Efficient Design Exploration through Surrogate-Assisted Illumination. <i>Evolutionary Computation</i> , 2018 , 26, 381-410	4.3	19
²⁵⁷		4.3	19
	Computation, 2018 , 26, 381-410 Using Novelty Search in Differential Evolution. Communications in Computer and Information Science		
256	Computation, 2018, 26, 381-410 Using Novelty Search in Differential Evolution. Communications in Computer and Information Science, 2018, 534-542		3
256 255	Computation, 2018, 26, 381-410 Using Novelty Search in Differential Evolution. Communications in Computer and Information Science, 2018, 534-542 Evolving Roguelike Dungeons With Deluged Novelty Search Local Competition. 2019, 11, 173-182		3
256 255 254	Using Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , 2018, 534-542 Evolving Roguelike Dungeons With Deluged Novelty Search Local Competition. 2019, 11, 173-182 Why Open-Endedness Matters. 2019, 25, 232-235		3 1 5
256 255 254 253	Using Novelty Search in Differential Evolution. <i>Communications in Computer and Information Science</i> , 2018, 534-542 Evolving Roguelike Dungeons With Deluged Novelty Search Local Competition. 2019, 11, 173-182 Why Open-Endedness Matters. 2019, 25, 232-235 Open-Endedness for the Sake of Open-Endedness. 2019, 25, 198-206 Co-Designing the Computational Model and the Computing Substrate. <i>Lecture Notes in Computer</i>	0.3	3 1 5

249	An Overview of Open-Ended Evolution: Editorial Introduction to the Open-Ended Evolution II Special Issue. 2019 , 25, 93-103	5
248	POET. 2019 ,	10
247	A substrate-independent framework to characterize reservoir computers. 2019 , 475, 20180723	12
246	Measuring properties of movement in populations of evolved 3D agents. 2019 ,	
245	Evolutionary robotics tutorial. 2019 ,	
244	Diverse Agents for Ad-Hoc Cooperation in Hanabi. 2019,	7
243	Modeling user selection in quality diversity. 2019,	2
242	Applying Evolution and Novelty Search to Enhance the Resilience of Autonomous Systems. 2019,	2
241	Novelty search. 2019,	7
240	Benchmarking open-endedness in minimal criterion coevolution. 2019 ,	O
239	Evolvability ES. 2019 ,	2
238	Are quality diversity algorithms better at generating stepping stones than objective-based search?. 2019 ,	9
237	Novelty search for deep reinforcement learning policy network weights by action sequence edit metric distance. 2019 ,	1
236	Conditional Granger Causality and Genetic Algorithms in VAR Model Selection. 2019 , 11, 1004	О
235	Autonomous skill discovery with quality-diversity and unsupervised descriptors. 2019,	18
	Autonomous skill discovery with quality-diversity and unsupervised descriptors. 2019, . 2019,	18
235		

(2020-2019)

231	Comparing Models for Harmony Prediction in an Interactive Audio Looper. <i>Lecture Notes in Computer Science</i> , 2019 , 173-187	0.9	0
230	The MODES Toolbox: Measurements of Open-Ended Dynamics in Evolving Systems. 2019 , 25, 50-73		3
229	Computational Intelligence in Music, Sound, Art and Design. <i>Lecture Notes in Computer Science</i> , 2019 ,	0.9	1
228	Tradeoffs in Neuroevolutionary Learning-Based Real-Time Robotic Task Design in the Imprecise Computation Framework. 2019 , 3, 1-29		3
227	Active learning via informed search in movement parameter space for efficient robot task learning and transfer. 2019 , 43, 1917-1935		2
226	Policy search in continuous action domains: An overview. 2019 , 113, 28-40		20
225	From Crystallized Adaptivity to Fluid Adaptivity in Deep Reinforcement Learning Insights from Biological Systems on Adaptive Flexibility. 2019 ,		2
224	Behavioral Repertoire via Generative Adversarial Policy Networks. 2019,		4
223	Automated Design of Simple and Robust Manipulators for Dexterous In-Hand Manipulation Tasks using Evolutionary Strategies. 2019 ,		1
222	Generate Desired Images from Trained Generative Adversarial Networks. 2019,		Ο
221	Complexity Measures: Open Questions and Novel Opportunities in the Automatic Design and Analysis of Robot Swarms. <i>Frontiers in Robotics and AI</i> , 2019 , 6, 130	2.8	1
220	Designing neural networks through neuroevolution. 2019 , 1, 24-35		
			227
219	Quality Diversity Through Surprise. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 603-616	15.6	7
219	Quality Diversity Through Surprise. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 603-616 Quantifying diversity in parametric design: a comparison of possible metrics. 2019 , 33, 40-53	15.6	, i
		15.6	7
218	Quantifying diversity in parametric design: a comparison of possible metrics. 2019 , 33, 40-53	0.6	7
218	Quantifying diversity in parametric design: a comparison of possible metrics. 2019 , 33, 40-53 Novelty search for global optimization. 2019 , 347, 865-881 Autonomous task allocation by artificial evolution for robotic swarms in complex tasks. <i>Artificial</i>		7 7 22

213	Skill-based curiosity for intrinsically motivated reinforcement learning. 2020 , 109, 493-512		10
212	Towards intrinsic autonomy through evolutionary computation. 2020 , 53, 4449-4473		Ο
211	Evolutionary Automation of Coordinated Autonomous Vehicles. 2020,		
2 10	The Child as Hacker. 2020 , 24, 900-915		9
209	Morphologically programming the interactions of V-shaped falling papers. 2020,		3
208	Sample and time efficient policy learning with CMA-ES and Bayesian Optimisation. 2020,		5
207	Bioinspired Optimization Methods and Their Applications. Lecture Notes in Computer Science, 2020,	0.9	2
206	Evolving the Behavior of Machines: From Micro to Macroevolution. 2020 , 23, 101731		2
205	Reward-based epigenetic learning algorithm for a decentralised multi-agent system. 2020 , 8, 201-224		
204	Efficient Novelty Search Through Deep Reinforcement Learning. 2020 , 8, 128809-128818		4
203	Understanding exploration in humans and machines by formalizing the function of curiosity. 2020 , 35, 118-124		2
202	Bootstrapping Artificial Evolution to Design Robots for Autonomous Fabrication. 2020 , 9, 106		9
201	Learning a Behavioral Repertoire from Demonstrations. 2020,		
200	Novelty-Guided Reinforcement Learning via Encoded Behaviors. 2020 ,		1
199	Deep Neural Evolution. Natural Computing Series, 2020,	2.5	5
198	Genetic Programming Theory and Practice XVII. Genetic and Evolutionary Computation, 2020,	0.8	2
197	Pushing property limits in materials discovery boundless objective-free exploration. 2020 , 11, 5959-596	8	10
196	Autonomous detection of collective behaviours in swarms. 2020 , 57, 100715		8

(2021-2020)

195	Practical wisdom as an adaptive algorithm for leadership: Integrating Eastern and Western perspectives to navigate complexity and uncertainty. 2020 , 29, 45-64	2
194	The Surprising Creativity of Digital Evolution: A Collection of Anecdotes from the Evolutionary Computation and Artificial Life Research Communities. 2020 , 26, 274-306	31
193	A Survey on Swarming With Micro Air Vehicles: Fundamental Challenges and Constraints. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 18	30
192	Diversity Maintenance for Efficient Robot Path Planning. 2020 , 10, 1721	3
191	Editorial: Intrinsically Motivated Open-Ended Learning in Autonomous Robots. 2019, 13, 115	7
190	A curious formulation robot enables the discovery of a novel protocell behavior. 2020 , 6, eaay4237	15
189	A systematic literature review of the SBSE research community in Spain. 2020 , 9, 113-128	2
188	Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human R obot Interaction. 2021 , 51, 1473-1484	19
187	Frequency Fitness Assignment: Making Optimization Algorithms Invariant Under Bijective Transformations of the Objective Function Value. <i>IEEE Transactions on Evolutionary Computation</i> , 15.6 2021 , 25, 307-319	ó o
186	From exploration to control: Learning object manipulation skills through novelty search and local adaptation. 2021 , 136, 103710	6
185	Fast and slow curiosity for high-level exploration in reinforcement learning. 2021 , 51, 1086-1107	5
184	Neuroevolutive Control of Industrial Processes Through Mapping Elites. 2021 , 17, 3703-3713	1
183	Automatic Modular Design of Behavior Trees for Robot Swarms with Communication Capabilites. <i>Lecture Notes in Computer Science</i> , 2021 , 130-145	2
182	Exploration Methods in Sparse Reward Environments. <i>Studies in Computational Intelligence</i> , 2021 , 35-45 o.8	
181	Neuroevolution in Deep Neural Networks: Current Trends and Future Challenges. 2021 , 1-1	12
180	Priority-based Selection of Individuals in Memetic Algorithms for Distributed Data-intensive Web Service compositions. 2021 , 1-1	1
179	Intrinsically Motivated Exploration of Learned Goal Spaces. 2020 , 14, 555271	3
178	Adaptive Multi-factorial Evolutionary Optimization for Multi-task Reinforcement Learning. <i>IEEE</i> Transactions on Evolutionary Computation, 2021 , 1-1	5 5

177	Automatic Generation of Interrelated Organisms on Virtual Environments. <i>Lecture Notes in Computer Science</i> , 2021 , 119-128	0.9	
176	AutoFac: The Perpetual Robot Machine. 2021 , 1-1		1
175	Evolving Virtual Embodied Agents Using External Artifact Evaluations. <i>Communications in Computer and Information Science</i> , 2021 , 30-47	0.3	
174	Co-optimising Robot Morphology and Controller in a Simulated Open-Ended Environment. <i>Lecture Notes in Computer Science</i> , 2021 , 34-49	0.9	
173	Selection-Expansion: A Unifying Framework for Motion-Planning and Diversity Search Algorithms. <i>Lecture Notes in Computer Science</i> , 2021 , 568-579	0.9	
172	Quality-Diversity Optimization: A Novel Branch of Stochastic Optimization. 2021, 109-135		4
171	Intrinsically Motivated Lifelong Exploration in Reinforcement Learning. 2021, 109-120		
170	First return, then explore. 2021 , 590, 580-586		23
169	Future Trends for Human-AI Collaboration: A Comprehensive Taxonomy of AI/AGI Using Multiple Intelligences and Learning Styles. 2021 , 2021, 1-21		4
168	A Systematic Literature Review of the Successors of "NeuroEvolution of Augmenting Topologies". <i>Evolutionary Computation</i> , 2021 , 29, 1-73	4.3	8
167	Metacognitive Computations for Information Search: Confidence in Control.		1
166	testar &criptless testing through graphical user interface. 2021 , 31, e1771		2
165	A Novelty Search and Metamorphic Testing Approach to Automatic Test Generation. 2021,		O
164	A Novel Biologically Inspired Developmental Indirect Encoding for the Evolution of Neural Network Controllers for Autonomous Agents. 2021 , 71,		
163	Directed Diversity: Leveraging Language Embedding Distances for Collective Creativity in Crowd Ideation. 2021 ,		
162	Enki. 2021 , 15, 1-32		O
161	The Environment and Body-Brain Complexity. 2021 ,		
160	Using novelty search to explicitly create diversity in ensembles of classifiers. 2021,		2

159	Multi-emitter MAP-elites. 2021 ,		6
158	Monte Carlo elites. 2021 ,		
157	Multi-Level Evolution for Robotic Design. Frontiers in Robotics and AI, 2021, 8, 684304	2.8	2
156	Policy gradient assisted MAP-Elites. 2021,		1
155	Embodied Computational Evolution: Feedback Between Development and Evolution in Simulated Biorobots. <i>Frontiers in Robotics and AI</i> , 2021 , 8, 674823	2.8	1
154	Preliminary Results for Subpopulation Algorithm Based on Novelty (SAN) Compared with the State of the Art. 2021 ,		
153	Automated Hypotheses Generation via Combinatorial Causal Optimization. 2021,		
152	Novelty and MCTS. 2021 ,		O
151	A development cycle for automated self-exploration of robot behaviors. 2021, 3,		
150	Nanoparticle synthesis assisted by machine learning. 2021 , 6, 701-716		38
149	Nanoparticle synthesis assisted by machine learning. 2021, 6, 701-716 Evolution of neural networks. 2021,		38
149	Evolution of neural networks. 2021,		0
149	Evolution of neural networks. 2021, Parallel exploration via negatively correlated search. 2021, 15, 1		0
149 148 147	Evolution of neural networks. 2021, Parallel exploration via negatively correlated search. 2021, 15, 1 Novelty search for evolving interesting character mechanics for a two-player video game. 2021,		0
149 148 147 146	Evolution of neural networks. 2021, Parallel exploration via negatively correlated search. 2021, 15, 1 Novelty search for evolving interesting character mechanics for a two-player video game. 2021, Promoting reproductive isolation through diversity in on-line collective robotics. 2021,		0 3
149 148 147 146	Evolution of neural networks. 2021, Parallel exploration via negatively correlated search. 2021, 15, 1 Novelty search for evolving interesting character mechanics for a two-player video game. 2021, Promoting reproductive isolation through diversity in on-line collective robotics. 2021, Younger is better. 2021, WHAT IS GENERATIVE IN GENERATIVE DESIGN TOOLS? UNCOVERING TOPOLOGICAL		0 3

141	Derivative-free reinforcement learning: a review. 2021 , 15, 1		6
140	NFDDE: A novelty-hybrid-fitness driving differential evolution algorithm. <i>Information Sciences</i> , 2021 , 579, 33-54	7.7	3
139	Genetic Operators and Their Impact on the Training of Deep Neural Networks. <i>Studies in Computational Intelligence</i> , 2021 , 97-124	0.8	
138	Improving Distributed Neuroevolution Using Island Extinction and Repopulation. <i>Lecture Notes in Computer Science</i> , 2021 , 568-583	0.9	1
137	Looking For Novelty in Search-based Software Product Line Testing. 2021, 1-1		1
136	Novelty Search and the Problem with Objectives. <i>Genetic and Evolutionary Computation</i> , 2011 , 37-56	0.8	27
135	An Analysis of Phenotypic Diversity in Multi-solution Optimization. <i>Lecture Notes in Computer Science</i> , 2020 , 43-55	0.9	1
134	Preliminary Study of Bloat in Genetic Programming with Behavior-Based Search. 2013 , 293-305		6
133	Novelty Search in Competitive Coevolution. Lecture Notes in Computer Science, 2014, 233-242	0.9	3
132	Evolving Diverse Strategies Through Combined Phenotypic Novelty and Objective Function Search. <i>Lecture Notes in Computer Science</i> , 2015 , 344-354	0.9	О
131	The Role of Behavioral Diversity and Difficulty of Opponents in Coevolving Game-Playing Agents. <i>Lecture Notes in Computer Science</i> , 2015 , 394-405	0.9	1
130	Evolving Generalised Maze Solvers. <i>Lecture Notes in Computer Science</i> , 2015 , 783-794	0.9	1
129	Towards Al Drawing Agents. 2015 , 357-369		3
128	Multi-agent Behavior-Based Policy Transfer. <i>Lecture Notes in Computer Science</i> , 2016 , 181-197	0.9	3
127	Hybrid Control for a Real Swarm Robotics System in an Intruder Detection Task. <i>Lecture Notes in Computer Science</i> , 2016 , 213-230	0.9	8
126	Parallel Hierarchical Evolution of String Library Functions. Lecture Notes in Computer Science, 2016, 281-	-299	3
125	Replicating the Stroop Effect Using a Developmental Spatial Neuroevolution System. <i>Lecture Notes in Computer Science</i> , 2016 , 602-612	0.9	1
124	Rapid Phenotypic Landscape Exploration Through Hierarchical Spatial Partitioning. <i>Lecture Notes in Computer Science</i> , 2016 , 911-920	0.9	6

123	Search Space Analysis of Evolvable Robot Morphologies. Lecture Notes in Computer Science, 2018, 703-	71 8 9	13
122	Evolutionary Robotics: Exploring New Horizons. <i>Studies in Computational Intelligence</i> , 2011 , 3-25	0.8	21
121	When Novelty Is Not Enough. Lecture Notes in Computer Science, 2011, 234-243	0.9	27
120	Introducing Novelty Search in Evolutionary Swarm Robotics. <i>Lecture Notes in Computer Science</i> , 2012 , 85-96	0.9	8
119	Progressive Minimal Criteria Novelty Search. Lecture Notes in Computer Science, 2012, 281-290	0.9	9
118	Sentient World: Human-Based Procedural Cartography. Lecture Notes in Computer Science, 2013, 180-1	9 15.9	8
117	MONEE: Using Parental Investment to Combine Open-Ended and Task-Driven Evolution. <i>Lecture Notes in Computer Science</i> , 2013 , 569-578	0.9	5
116	Searching for Novel Classifiers. <i>Lecture Notes in Computer Science</i> , 2013 , 145-156	0.9	10
115	Boosting Interactive Evolution Using Human Computation Markets. <i>Lecture Notes in Computer Science</i> , 2013 , 1-18	0.9	1
114	HyperNEAT: The First Five Years. Studies in Computational Intelligence, 2014, 159-185	0.8	7
113	A Novelty Search and Power-Law-Based Genetic Algorithm for Exploring Harmonic Spaces in J.S. Bach Chorales. <i>Lecture Notes in Computer Science</i> , 2014 , 95-106	0.9	2
112	Surprise Search. 2016 ,		20
111	EvoRBC. 2016 ,		9
110	Discovering evolutionary stepping stones through behavior domination. 2017,		7
109	Comparing and combining lexicase selection and novelty search. 2019,		6
108	Model-based exploration of the frontier of behaviours for deep learning system testing. 2020,		14
107	Learning behaviour-performance maps with meta-evolution. 2020,		4
106	Quality diversity for multi-task optimization. 2020,		10

105	Reality-Assisted Evolution of Soft Robots through Large-Scale Physical Experimentation: A Review. 2020 , 26, 484-506		9
104	Evolvability is inevitable: increasing evolvability without the pressure to adapt. <i>PLoS ONE</i> , 2013 , 8, e621	867	33
103	Extinction events can accelerate evolution. <i>PLoS ONE</i> , 2015 , 10, e0132886	3.7	11
102	Advantages of Task-Specific Multi-Objective Optimisation in Evolutionary Robotics. <i>PLoS ONE</i> , 2015 , 10, e0136406	3.7	16
101	Beyond Corroboration: Strengthening Model Validation by Looking for Unexpected Patterns. <i>PLoS ONE</i> , 2015 , 10, e0138212	3.7	17
100	Curiosity Search: Producing Generalists by Encouraging Individuals to Continually Explore and Acquire Skills throughout Their Lifetime. <i>PLoS ONE</i> , 2016 , 11, e0162235	3.7	8
99	PMCNS. International Journal of Natural Computing Research, 2014 , 4, 1-19	0.6	1
98	Evolving Variants of Neuro-Control Using Constraint Masks. <i>Lecture Notes in Computer Science</i> , 2012 , 187-197	0.9	
97	A Procedural Method for Automatic Generation of Spelunky Levels. <i>Lecture Notes in Computer Science</i> , 2015 , 305-317	0.9	1
96	A genetic algorithm-based approach to mapping the diversity of networks sharing a given degree distribution and global clustering. <i>Studies in Computational Intelligence</i> , 2017 , 223-233	0.8	1
95	Bibliography. 127-148		
94	Interactive Evolution of Complex Behaviours Through Skill Encapsulation. <i>Lecture Notes in Computer Science</i> , 2017 , 853-869	0.9	
93	Mixed-Initiative Creative Drawing with weblconoscope. Lecture Notes in Computer Science, 2017, 144-15	9 0.9	1
92	Automatic Detection of Incomplete Requirements Using Symbolic Analysis and Evolutionary Computation. <i>Lecture Notes in Computer Science</i> , 2017 , 49-64	0.9	
91	Precomputation for rapid hypothesis generation in evolutionary robotics. 2017,		
90	Mapping Chess Aesthetics onto Procedurally Generated Chess-Like Games. <i>Lecture Notes in Computer Science</i> , 2018 , 325-341	0.9	1
89	Solver Tuning and Model Configuration. Lecture Notes in Computer Science, 2018, 141-154	0.9	1
88	Computational Evolutionary Art: Artificial Life and Effective Complexity. <i>Lecture Notes in Computer Science</i> , 2019 , 331-346	0.9	

87 Curiosity eliminates the exploration-exploitation dilemma.

86	Learning the Designer Preferences to Drive Evolution. <i>Lecture Notes in Computer Science</i> , 2020 , 431-4	45 0.9	
85	Novelty search for automatic bug repair. 2020,		2
84	Behavioral Repertoire via Generative Adversarial Policy Networks. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2020 , 1-1	3	1
83	Discovering Gated Recurrent Neural Network Architectures. <i>Natural Computing Series</i> , 2020 , 233-251	2.5	О
82	Designing Air Flow with Surrogate-Assisted Phenotypic Niching. <i>Lecture Notes in Computer Science</i> , 2020 , 140-153	0.9	3
81	Evolution of Diverse, Manufacturable Robot Body Plans. 2020,		1
80	Fitness Function Design for Neuroevolution in Goal-Finding Game Environments. <i>Communications in Computer and Information Science</i> , 2020 , 503-515	0.3	
79	Guided Reinforcement Learning via Sequence Learning. Lecture Notes in Computer Science, 2020, 335-3	4 5 .9	
78	Evolutionary Algorithms in Web Security: Exploring Untapped Potential. 2020 ,		O
77	Evolution of neural networks. 2020 ,		
76	Weight-Adapted Convolution Neural Network for Facial Expression Recognition. <i>Studies in Computational Intelligence</i> , 2021 , 57-75	0.8	
75	Natural reward drives the advancement of life. <i>Rethinking Ecology</i> , 5, 1-35	O	1
74	Reinforcement Learning with Evolutionary Computation to Policy Search for Autonomous Navigation. 2020 ,		O
73	Model-Based Quality-Diversity Search for Efficient Robot Learning. 2020 ,		1
72	From Reward to Histone: Combining Temporal-Difference Learning and Epigenetic Inheritance for Swarm's Coevolving Decision Making. 2020 ,		
71	Phenotypic Niching Using Quality Diversity Algorithms. <i>Natural Computing Series</i> , 2021 , 287-315	2.5	1
70	Novelty Generation Framework for AI Agents in Angry Birds Style Physics Games. 2021 ,		O

69 OPEn: An Open-ended Physics Environment for Learning Without a Task. **2021**,

68	Automating Genetic Algorithm Mutations for Molecules Using a Masked Language Model. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	1
67	Few-shot Quality-Diversity Optimization. IEEE Robotics and Automation Letters, 2022, 1-1	4.2	
66	An Exploration of Exploration: Measuring the Ability of Lexicase Selection to Find Obscure Pathways to Optimality. <i>Genetic and Evolutionary Computation</i> , 2022 , 83-107	0.8	1
65	Novelty-Driven Binary Particle Swarm Optimisation for Truss Optimisation Problems. <i>Lecture Notes in Computer Science</i> , 2022 , 111-126	0.9	
64	Quality-Diversity Meta-Evolution: customising behaviour spaces to a meta-objective. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	
63	C-GRAIL: Autonomous reinforcement learning of multiple, context-dependent goals. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2022 , 1-1	3	2
62	Unsupervised Behaviour Discovery with Quality-Diversity Optimisation. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	
61	Curiosity-Driven Learning in Development. 2022 , 644-661		
60	Variational quantum reinforcement learning via evolutionary optimization. <i>Machine Learning:</i> Science and Technology, 2022 , 3, 015025	5.1	1
59	Exploration in deep reinforcement learning: A survey. Information Fusion, 2022,	16.7	2
58	Recombination and Novelty in Neuroevolution: A Visual Analysis. SN Computer Science, 2022, 3, 1	2	1
57	Artificial selection methods from evolutionary computing show promise for directed evolution of microbes.		1
56	DeepMetis: Augmenting a Deep Learning Test Set to Increase its Mutation Score. 2021 ,		1
55	Effects of Different Optimization Formulations in Evolutionary Reinforcement Learning on Diverse Behavior Generation. 2021 ,		
54	Promoting Behavioral Diversity via Multi-Objective/Quality-Diversity Novelty Producing Synaptic Plasticity. 2021 ,		
53	Artificial evolution of robot bodies and control: on the interaction between evolution, learning and culture <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20210117	5.8	3
52	Seeking Specialization Through Novelty in Distributed Online Collective Robotics. <i>Lecture Notes in Computer Science</i> , 2022 , 635-650	0.9	

51	Augmenting Novelty Search with a Surrogate Model to Engineer Meta-diversity in Ensembles of Classifiers. <i>Lecture Notes in Computer Science</i> , 2022 , 418-434	0.9	
50	Quality-Diversity for Aesthetic Evolution. Lecture Notes in Computer Science, 2022, 369-384	0.9	
49	Neuroevolution Trajectory Networks of the Behaviour Space. <i>Lecture Notes in Computer Science</i> , 2022 , 685-703	0.9	2
48	Creating Diverse Ensembles for Classification with Genetic Programming and Neuro-MAP-Elites. Lecture Notes in Computer Science, 2022 , 212-227	0.9	1
47	Open-Ended Search for Environments and Adapted Agents Using MAP-Elites. <i>Lecture Notes in Computer Science</i> , 2022 , 651-666	0.9	
46	Contributions of expected learning progress and perceptual novelty to curiosity-driven exploration <i>Cognition</i> , 2022 , 225, 105119	3.5	Ο
45	Evolving neural networks through bio-inspired parent selection in dynamic environments <i>BioSystems</i> , 2022 , 104686	1.9	
44	A variable-length encoding genetic algorithm for incremental service composition in uncertain environments for cloud manufacturing. <i>Applied Soft Computing Journal</i> , 2022 , 123, 108902	7.5	O
43	Quality Diversity for Synthesizer Sound Matching. 2021,		2
42	Evolving topology and weights of specialized and non-specialized neuro-controllers for robot motion in various environments. <i>Neural Computing and Applications</i> ,	4.8	
41	Novelty Knows No Boundaries: Why a Proper Investigation of Novelty Effects Within SHRI Should Begin by Addressing the Scientific Plurality of the Field. <i>Frontiers in Robotics and AI</i> , 2022 , 9,	2.8	О
40	Desperately Searching for Something. SSRN Electronic Journal,	1	
39	Application of The Hierarchic Memetic Strategy HMS in Neuroevolution. <i>Lecture Notes in Computer Science</i> , 2022 , 422-429	0.9	
38	Generation of virtual creatures under multidisciplinary biological premises. <i>Artificial Life and Robotics</i> ,	0.6	
37	Evolutionary neural networks for deep learning: a review. <i>International Journal of Machine Learning and Cybernetics</i> ,	3.8	3
36	Innate Motivation for Robot Swarms by Minimizing Surprise: From Simple Simulations to Real-World Experiments. <i>IEEE Transactions on Robotics</i> , 2022 , 1-20	6.5	
35	Automatic Acquisition of a Repertoire of Diverse Grasping Trajectories through Behavior Shaping and Novelty Search. 2022 ,		1
34	SEMI: Self-supervised Exploration via Multisensory Incongruity. 2022 ,		

33	Search-based diverse sampling from real-world software product lines. 2022,		1
32	Efficient and Effective Feature Space Exploration for Testing Deep Learning Systems. <i>ACM Transactions on Software Engineering and Methodology</i> ,	3.3	1
31	Approximating gradients for differentiable quality diversity in reinforcement learning. 2022,		O
30	Procedural content generation using neuroevolution and novelty search for diverse video game levels. 2022 ,		O
29	Deep surrogate assisted MAP-elites for automated hearthstone deckbuilding. 2022,		
28	On the use of quality diversity algorithms for the traveling thief problem. 2022,		4
27	Selection schemes from evolutionary computing show promise for directed evolution of microbes. 2022 ,		
26	Evolution of neural networks. 2022,		
25	Adjustable driving force based particle swarm optimization algorithm. <i>Information Sciences</i> , 2022 , 609, 60-78	7.7	O
24	Co-evolutionary Diversity Optimisation for[the]Traveling Thief Problem. 2022 , 237-249		
24	Co-evolutionary Diversity Optimisation for[the[Traveling Thief Problem. 2022, 237-249 Non-elitist Selection Can Improve the[Performance of[Irace. 2022, 32-45]		
			O
23	Non-elitist Selection Can Improve the Performance of Irace. 2022 , 32-45 Artificial selection methods from evolutionary computing show promise for directed evolution of		0
23	Non-elitist Selection Can Improve the Performance of Irace. 2022, 32-45 Artificial selection methods from evolutionary computing show promise for directed evolution of microbes. 11,		
23	Non-elitist Selection Can Improve the Performance of Irace. 2022, 32-45 Artificial selection methods from evolutionary computing show promise for directed evolution of microbes. 11, Concept identification for complex engineering datasets. 2022, 53, 101704 A Novelty-Search Approach to Filling an Instance-Space with Diverse and Discriminatory Instances		0
23 22 21 20	Non-elitist Selection Can Improve the Performance of Irace. 2022, 32-45 Artificial selection methods from evolutionary computing show promise for directed evolution of microbes. 11, Concept identification for complex engineering datasets. 2022, 53, 101704 A Novelty-Search Approach to Filling an Instance-Space with Diverse and Discriminatory Instances for Ithe IK napsack Problem. 2022, 223-236		0
23 22 21 20	Non-elitist Selection Can Improve the Performance of Irace. 2022, 32-45 Artificial selection methods from evolutionary computing show promise for directed evolution of microbes. 11, Concept identification for complex engineering datasets. 2022, 53, 101704 A Novelty-Search Approach to Filling an Instance-Space with Diverse and Discriminatory Instances for Ithe IK napsack Problem. 2022, 223-236 Minimum Description Length Recurrent Neural Networks. 2022, 10, 785-799		0 0

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14	Sampling configurations from software product lines via probability-aware diversification and SAT solving. 2022 , 29,	O
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11	Cooperation Pattern Exploration for Multi-Agent Reinforcement Learning. 2022,	0
10	Evolutionary Statistical System Based on Novelty Search: A Parallel Metaheuristic for Uncertainty Reduction Applied to Wildfire Spread Prediction. 2022 , 15, 478	Ο
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7	Quality-diversity for Synthesizer Sound Matching. 2023 , 31, 220-228	O
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5	Evolution of linkages for prototyping of linkage based robots. 2022,	O
4	Comparative studies of evolutionary methods and RL for learning behavior of virtual creatures. 2022 ,	O
3	Novelty Search Promotes Antigenic Diversity in Microbial Pathogens. 2023 , 12, 388	О
2	Life as a Cyber-Bio-Physical System. 2023 , 167-200	Ο
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