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List of articles citing

Architecture for an artificial immune system

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Evolutionary Computation, 2000, 8, 443-73.

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#	Paper	IF	Citations
551	Design of security system based on immune system.		5
550	Towards an artificial immune system for network intrusion detection: an investigation of clonal selection with a negative selection operator.		19
549	NATE. 2001,		15
548	An evolutionary programming approach for detecting novel computer network attacks.		3
547	A heuristic approach to efficient production of detector sets for an artificial immune algorithm-based bankruptcy prediction system.		1
546	Enabling automatic adaptation in systems with under-specified elements. 2002,		8
545	Combining negative selection and classification techniques for anomaly detection.		60
544	Makespan minimization on parallel processors: an immune-based approach.		11
543	The design and hardware-in-the-loop simulation test of a parallel hybrid transmission control system. 2002, 30, 362		2
542	An immunity-based technique to characterize intrusions in computer networks. 2002, 6, 281-291		182
541	An intrusion detection system based on data mining and immune principles.		6
540	.		
539	Revisiting LISYS: parameters and normal behavior.		22
538	FICSEM: a learning method from one-case fitted in complex adaptive system.		1
537	A middleware for large scale networks inspired by the immune system. 2002,		
536	The computer defense immune system: current and future research in intrusion detection.		6
535	Immunotronics - novel finite-state-machine architectures with built-in self-test using self-nonsel differentiation. 2002, 6, 227-238		64

534	The Danger Theory and its Application to Artificial Immune Systems. 2002,	78
533	Information Immune Systems. 2003, 4, 311-331	18
532	Anomaly Detection Using Real-Valued Negative Selection. 2003, 4, 383-403	186
531	Autonomous recovery from hostile code insertion using distributed reflection. 2003, 4, 89-117	3
530	Efficient anomaly detection by modeling privilege flows using hidden Markov model. 2003, 22, 45-55	85
529	Recent Trends in Learning Classifier Systems Research. 2003, 955-988	3
528	Artificial immune system (AIS) research in the last five years.	85
527	Potential issues in novel computational research: artificial immune systems.	0
526	The role of crossover in an immunity based genetic algorithm for multimodal function optimization.	
525	An evolutionary approach to generate fuzzy anomaly (attack) signatures.	13
524	An immuno-fuzzy approach to anomaly detection.	24
523	Research on computer network security based on pattern recognition.	
522	An evolutionary algorithm with population immunity and its application on autonomous robot control.	1
521	A chromosome-based evaluation model for computer defense immune systems.	
520	The evolutionary mechanisms in computer immune system. 2003,	
519	An artificial immune system for securing mobile ad hoc networks against intrusion attacks. 2003,	2
518	Realisation of the energy saving policy in the Czech Republic. 2003, 19, 123	
517	The Crossover Closure and Partial Match Detection. <i>Lecture Notes in Computer Science</i> , 2003, 249-260	0.9 5

516	Mapping Artificial Immune Systems into Learning Classifier Systems. <i>Lecture Notes in Computer Science</i> , 2003 , 163-186	0.9	5
515	Detecting Danger: Applying a Novel Immunological Concept to Intrusion Detection Systems. 2004 ,		4
514	Real-Valued Negative Selection Algorithm with Variable-Sized Detectors. <i>Lecture Notes in Computer Science</i> , 2004 , 287-298	0.9	120
513	An Immune Network Approach for Web Document Clustering.		
512	A hidden Markov models-based anomaly intrusion detection method.		7
511	Augmented negative selection algorithm with variable-coverage detectors.		4
510	Comparing performance of binary-coded detectors and constraint-based detectors.		1
509	Hybrid NIDS based on biological immunology.		
508	An intrusion detection system using ideas from the immune system.		7
507	An on-line learning neuro-fuzzy system based on artificial immune systems.		
506	Vulnerability analysis of AIS-based intrusion detection systems via genetic and particle swarm red teams.		5
505	Securing ad hoc networks through mobile agent. 2004 ,		4
504	Online Negative Databases. <i>Lecture Notes in Computer Science</i> , 2004 , 175-188	0.9	20
503	Immune Memory and Gene Library Evolution in the Dynamic Clonal Selection Algorithm. 2004 , 5, 361-391		26
502	A fully distributed IDS for MANET.		3
501	Introducing Belbic: Brain Emotional Learning Based Intelligent Controller. 2004 , 10, 11-21		193
500	A formal framework for positive and negative detection schemes. 2004 , 34, 357-73		91
499	An Extended Negative Selection Algorithm for Anomaly Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 245-254	0.9	4

498	Studies on the Implications of Shape-Space Models for Idiotypic Networks. <i>Lecture Notes in Computer Science</i> , 2004 , 413-426	0.9	20
497	On the appropriateness of negative selection defined over Hamming shape-space as a network intrusion detection system.		19
496	USAID: Unifying Signature-Based and Anomaly-Based Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2005 , 702-712	0.9	4
495	An immunity based network security risk estimation. 2005 , 48, 557		50
494	An immune based dynamic intrusion detection model. 2005 , 50, 2650-2657		27
493	Immune based intrusion detector generating algorithm. 2005 , 10, 147-151		1
492	An immune based dynamic intrusion detection model. 2005 , 50, 2650		7
491	A machine learning evaluation of an artificial immune system. <i>Evolutionary Computation</i> , 2005 , 13, 179-212		37
490	On the contribution of gene libraries to artificial immune systems. 2005 ,		2
489	Discriminating and visualizing anomalies using negative selection and self-organizing maps. 2005 ,		7
488	Continuous-time random-walk simulation of H ₂ formation on interstellar grains. 2005 , 434, 599-611		68
487	Research of intrusion detection based on immunogenetic technique.		
486	A new immunity-based model for network intrusion detection.		
485	An Immune-Based Model for Computer Virus Detection. <i>Lecture Notes in Computer Science</i> , 2005 , 59-71	0.9	5
484	Cryptology and Network Security. <i>Lecture Notes in Computer Science</i> , 2005 ,	0.9	1
483	An artificial immune system approach with secondary response for misbehavior detection in mobile ad hoc networks. 2005 , 16, 1076-87		56
482	How do we evaluate artificial immune systems?. <i>Evolutionary Computation</i> , 2005 , 13, 145-77	4.3	158
481	Rate Distortion Theory and Its Application in Intrusion Detection.		

480	Artificial Immune Systems. <i>Lecture Notes in Computer Science</i> , 2005 ,	0.9	6
479	Biologically Inspired Approaches for Wireless Sensor Networks. 2006 ,		16
478	A Computer Immune System: LAN Immune System Model based on Host (LISMH). 2006 ,		
477	A Virus Co-evolution Genetic Algorithm Based on Niche Technology. 2006 ,		1
476	Computation Process Evolution.		
475	A hybrid immune intrusion detection system based on mobile agent. 2006 ,		
474	A survey of autonomic communications. 2006 , 1, 223-259		398
473	Complex systems: Network thinking. 2006 , 170, 1194-1212		199
472	Recent developments in securing Internet routing protocols. 2006 , 24, 180-196		5
471	A neuro-immune model for discriminating and visualizing anomalies. 2006 , 5, 285-304		1
470	Analyzing and evaluating dynamics in stide performance for intrusion detection. 2006 , 19, 576-591		3
469	An immunity-based security architecture for mobile ad hoc networks. 2006 , 23, 417-422		1
468	Advances in artificial immune systems. 2006 , 1, 40-49		249
467	Immune response inspired spatialtemporal target detection algorithms with CNN-UM. 2006 , 34, 21-47		9
466	An Immune Evolutionary Algorithm Based on Chaos Mutation. 2006 ,		0
465	An evaluation of negative selection algorithm with constraint-based detectors. 2006 ,		4
464	A retrovirus inspired algorithm for virus detection & optimization. 2006 ,		15
463	An artificial immune system and its integration into an organic middleware for self-protection. 2006 ,		3

462 An Anomaly Detection-Based Classification System.

461 Errors Estimating of Incompletion and Updating Strategy in IDS. **2006,**

1

460 A New Intrusion Detection Method Based on Artificial Immune System. **2007,**

2

459 A Feedback Negative Selection Algorithm to Anomaly Detection. **2007,**

4

458 Adaptive e-mail intention finding mechanism based on e-mail words social networks. **2007,**

6

457 Extended thymus action for reducing false positives in ais based network intrusion detection systems. **2007,**

1

456 A Genetic Algorithm Based on Immune and Chaos. **2007,**

1

455 Extended thymus action for improving response of AIS based NID system against malicious traffic. **2007,**

1

454 Immune Systems Inspired Approach to Anomaly Detection and Fault Diagnosis for Engines. **2007,**

4

453 A Risk Early-warning System for Individual Housing Loan Credit Based on Artificial Immune Net. **2007,**

452 References. 487-549

451 Real and artificial immune systems: computing the state of the body. **2007, 7, 569-74**

78

450 A Computational Model for the Cognitive Immune System Theory Based on Learning Classifier Systems. *Lecture Notes in Computer Science, 2007, 264-275*

0.9 5

449 Exploration of Network Security Information Hid in Web Pages Based on Immunology. **2007,**

448 Immunity based virus detection with process call arguments and user feedback. **2007,**

447 Neural Networks for Artificial Immune Systems: LVQ for Detectors Construction. **2007,**

2

446 A Cooperative AIS Framework for Intrusion Detection. **2007,**

24

445 Intelligent gain system based on complex and dynamical networks model. **2007,**

444	A Novel Network Security Evaluation System Based on Immune Principle. 2007,		1
443	Research of DoS Intrusion Real-time Detection Based on Danger Theory. 2007,		1
442	Design of a Four-Layer Model Based on Danger Theory and AIS for IDS. 2007,		5
441	Using danger to distribute defences. 2007, 4, 28-30		
440	Security Operation Center Based on Immune System. 2007,		4
439	Applying biological principles to designs of network services. <i>Applied Soft Computing Journal</i> , 2007, 7, 870-878	7.5	23
438	Using the danger model of immune systems for distributed defense in modern data networks. 2007 , 51, 1315-1333		18
437	Biologically-inspired Complex Adaptive Systems approaches to Network Intrusion Detection. 2007, 12, 209-217		21
436	Sensing danger: Innate immunology for intrusion detection. 2007, 12, 218-227		23
435	A brief survey of self-organization in wireless sensor networks. <i>Wireless Communications and Mobile Computing</i> , 2007, 7, 823-834	1.9	61
434	Computer immunology. 2007, 216, 176-97		85
433	Genetic programming for prevention of cyberterrorism through dynamic and evolving intrusion detection. 2007, 43, 1362-1374		49
432	Negative selection based immune optimization. 2007, 38, 649-656		19
431	Anomaly detection in TCP/IP networks using immune systems paradigm. 2007, 30, 740-749		18
430	Evolutionary algorithms to simulate the phylogenesis of a binary artificial immune system. 2008, 1, 133-144		2
429	Immune-inspired incremental feature selection technology to data streams. <i>Applied Soft Computing Journal</i> , 2008, 8, 1041-1049	7.5	7
428	Organic Computing. 2008,		35
427	Bio-Inspired Computing and Communication. <i>Lecture Notes in Computer Science</i> , 2008,	0.9	1

426	Biologically-Inspired Collaborative Computing. <i>International Federation for Information Processing, 2008,</i>	1
425	Artificial Immune Systems. <i>Lecture Notes in Computer Science, 2008,</i>	0.9 4
424	. 2008,	3
423	Multi-layer Intrusion Detection and Defence Mechanisms Based on Immunity. 2008,	0
422	A Dynamic Trust Model for the Multi-agent Systems. 2008,	8
421	The Evolution of System-Call Monitoring. 2008,	70
420	Determining Object Safety Using a Multiagent, Collaborative System. 2008,	2
419	Evaluation of Competitiveness of Power Plants Based on Optimized SVM Using GA and AIS. 2008,	
418	Evolution Induced Secondary Immunity: An Artificial Immune System Based Intrusion Detection System. 2008,	9
417	Hiding a Needle in a Haystack Using Negative Databases. <i>Lecture Notes in Computer Science, 2008, 15-29</i> 0.9	10
416	. 2008,	
415	A Dynamic Immunity-Based Real-time Network Risk Evaluation Method. 2008,	
414	An Anomaly Intrusion Detection Method Based on Shell Commands. 2008,	1
413	Research on Intrusion Detection Technology Based on Immune Algorithm. 2008,	1
412	An Artificial Immune Model with Vaccine Operator for Network Intrusion Detection. 2008,	2
411	A Novel Anomaly Detection Algorithm Based on Real-Valued Negative Selection System. 2008,	2
410	Gene-Certificate Based Method for Network Trust. 2008,	2
409	Selection for group-level efficiency leads to self-regulation of population size. 2008,	2

408	Biological inspired approach in parallel immunology system for network security. 2008,	2
407	Attack analysis & bio-inspired security framework for IP multimedia subsystem. 2008,	2
406	Artificial Immune System for Anomaly Detection. 2008,	2
405	Vigilante. 2008, 26, 1-68	21
404	Attack analysis & bio-inspired security framework for IPMultimedia subsystem. 2008,	5
403	Intrusion Detection Algorithm of Artificial Immune Based on Decision Tree and Genetic Algorithm. 2008,	
402	Spatial Self-Organization of Heterogeneous, Modular Architectures. 2008,	
401	An immune approach to classifying the high-dimensional datasets. 2008,	3
400	. 2008,	4
399	A Dynamic Immunity-Based Model for Computer Virus Detection. 2008,	5
398	An Immunity-Based Technical Research into Network Intrusion Detection. 2008,	1
397	Comparative study of five bio-inspired evolutionary optimization techniques. 2009,	32
396	. 2009,	
395	Immune-Based Data Fusion Mechanism in Wireless Sensor Network. 2009,	1
394	A Controllable and Adaptable Computer Virus Detection Model. 2009,	1
393	GPU powered artificial immune system for visual applications. 2009,	1
392	An artificial immune system approach to anomaly detection in multimedia ambient intelligence. 2009,	1
391	An improved V-detector algorithm of identifying boundary self. 2009,	

390	Research and Applications of Immune PID Adaptive Controller in Anti-Skid Braking System for Aircraft. 2009 ,	10
389	A DDoS-Aware IDS Model Based on Danger Theory and Mobile Agents. 2009 ,	9
388	. 2009 ,	
387	Growing Structure Multiple Model Systems for Anomaly Detection and Fault Diagnosis. 2009 , 131,	14
386	. 2009 ,	
385	. 2009 ,	
384	The Application of Artificial Immune Clustering Algorithm in Division of Electric Load Forecasting. 2009 ,	1
383	Immune-inspired framework for securing hybrid MANET. 2009 ,	5
382	Facilitating evolutionary innovation by developmental modularity and variability. 2009 ,	17
381	Biologically Inspired Approaches to Network Systems. 2009 , 99-113	5
380	Computer-aided diagnosis of thyroid malignancy using an artificial immune system classification algorithm. 2009 , 13, 680-6	7
379	Monitoring Smartphones for Anomaly Detection. 2009 , 14, 92-106	60
378	Autopoiesis, the immune system, and adaptive information filtering. 2009 , 8, 387-427	15
377	Distributed agents model for intrusion detection based on AIS. 2009 , 22, 115-119	28
376	Agent-based modeling of host-pathogen systems: The successes and challenges. 2009 , 179, 1379-1389	149
375	An Immune Based Relational Database Intrusion Detection Algorithm. 2009 ,	9
374	Dissecting Self-* Properties. 2009 ,	28
373	Anomaly Detection with Sensor Data for Distributed Security. 2009 ,	3

372	Guide to Wireless Sensor Networks. 2009,	28
371	Artificial Immune Systems. <i>Lecture Notes in Computer Science</i> , 2009,	0.9 3
370	A New Risk Assessment Model for E-Government Network Security Based on Antibody Concentration. 2009,	5
369	Immunity-Inspired Risk Assessment Approach for Network Security. 2009,	7
368	An artificial t cell immune system for predicting MHC-II binding peptides. 2009,	
367	P2P-AIS: A P2P Artificial Immune Systems architecture for detecting DDoS flooding attacks. 2009,	3
366	An Immune Approach to Recognition of Handwritten Words. 2009,	1
365	Towards a Classifying Artificial Immune System for Web Server Attacks. 2009,	1
364	Immune inspired framework for ad hoc network security. 2009,	4
363	Negative selection algorithm based on immune suppression. 2009,	
362	An ontology for artificial immune systems. 2009,	2
361	Antibody Concentration Based Method for Network Security Situation Awareness. 2009,	7
360	Improved Genetic Algorithm in Intrusion Detection Model Based on Artificial Immune Theory. 2009,	1
359	. 2009,	0
358	Significant Level in V-detector Generation Algorithm. 2009,	1
357	An Immune System Algorithm Based on Variable Detection Radius of the Negative Selection Mechanism. 2009,	
356	A Preliminary Study on Why Using the Nonself Detector Set for Anomaly Detection in Artificial Immune Systems. 2009,	2
355	An Eco-Defending Architecture for Network Security Based on Immunity and Mobile Agents. 2009,	

354	Research of Fault Diagnosis Method Based on Immune Neural Network. 2009,	
353	Artificial Immune Principle Based Charging Optimization Algorithm for Refined Copper Strip Producing. 2009,	
352	An outlier robust negative selection algorithm. 2009,	
351	Extension Theory and the Application in Optimization of Immune Neural Network. 2009,	
350	An improved artificial immune approach to network intrusion detection. 2010,	
349	An Intrusion Detection Model Based on Ant Principle. 2010,	
348	Immunity-based evolutionary algorithm for optimal global container repositioning in liner shipping. 2010, 32, 739-763	11
347	Information fusion for anomaly detection with the dendritic cell algorithm. 2010, 11, 21-34	77
346	A Survey of artificial immune applications. 2010, 34, 19-34	50
345	A review of evolutionary and immune-inspired information filtering. 2010, 9, 545-573	5
344	A modified version of a T-Cell Algorithm for constrained optimization problems. 2010, 84, n/a-n/a	11
343	Guidelines for developing effective Estimation of Distribution Algorithms in solving single machine scheduling problems. 2010, 37, 6441-6451	32
342	A taxonomy of biologically inspired research in computer networking. 2010, 54, 901-916	83
341	A survey on bio-inspired networking. 2010, 54, 881-900	206
340	Efficient combined immune-decomposition algorithm for optimal buffer allocation in production lines for throughput and profit maximization. 2010, 37, 611-620	27
339	Information Fusion for Anomaly Detection with the Dendritic Cell Algorithm. 2010,	1
338	A Network Security Risk Assessment Method Based on Immunity Algorithm. 2010, 108-111, 948-953	2
337	The Weather Prediction Method Based on Artificial Immune System. 2010,	1

336	Immune-inspired technique for optimizing server's energy consumption. 2010,	1
335	Receptor editing-inspired negative selection algorithm. 2010,	1
334	The Fuzzy Set and Data Mining Applications in Accounting and Finance. 2010, 1307-1331	2
333	. 2010,	1
332	Artificial immunity-based model for information system security risk evaluation. 2010,	
331	An Intrusion Protection Model Based on Artificial Immune. 2010,	
330	Application-level Simulation for Network Security. 2010, 86, 311-330	15
329	Optimization of self set and detector generation base on Real-value negative selection algorithm. 2010,	1
328	A hybrid model for solving TSP based on artificial immune and ant colony. 2010,	
327	Bio-inspired networking: from theory to practice. 2010, 48, 176-183	76
326	Survey on Artificial Immune System as a Bio-inspired Technique for Anomaly Based Intrusion Detection Systems. 2010,	13
325	Introduction to Evolutionary Algorithms. 2010,	187
324	An Immune Danger Theory Inspired Model for Network Security Threat Awareness. 2010,	6
323	Applications of Neural Networks in High Assurance Systems. 2010,	9
322	Study on Hardware Implementation of Artificial Immune System. 2010,	0
321	Sequential Frequency Vector Based System Call Anomaly Detection. 2010,	2
320	An Immune Danger Theory Inspired Model for Network Security Monitoring. 2010,	6
319	Avidity-model based clonal selection algorithm for network intrusion detection. 2010,	3

318	Simulation Modeling of Network Intrusion Detection Based on Artificial Immune System. 2010,		
317	OS diversity for intrusion tolerance: Myth or reality?. 2011,		48
316	Modified real-value negative selection algorithm and its application on fault diagnosis. 2011,		
315	Misbehavior detection in Mobile ad hoc Networks using Artificial Immune System approach. 2011,		3
314	Network intrusion detection by artificial immune system. 2011,		
313	Trusted Systems. <i>Lecture Notes in Computer Science,</i> 2011,	0.9	1
312	Artificial Immune Systems. <i>Lecture Notes in Computer Science,</i> 2011,	0.9	1
311	Immune Danger Theory Based Model for SYN Flooding Attack Situation Awareness. 2011, 181-182, 66-71		3
310	A Danger Theory Inspired Security Evaluation Paradigm for Computer Network. 2011, 179-180, 1333-1337		2
309	Bioinspired principles for large-scale networked sensor systems: an overview. 2011, 11, 4137-51		18
308	Biologically Inspired Network Systems: A Review and Future Prospects. 2011, 41, 630-643		37
307	Research of adaptive immune network intrusion detection model. 2011, 3, 280		2
306	Policy controlled self-configuration in unattended wireless sensor networks. 2011, 34, 1530-1544		32
305	. 2011, 6, 30-42		27
304	Collaborative RFID intrusion detection with an artificial immune system. 2011, 36, 1-26		12
303	A review of clonal selection algorithm and its applications. 2011, 36, 117-138		81
302	Self-maintenance and engineering immune systems: Towards smarter machines and manufacturing systems. 2011, 35, 111-122		95
301	Artificial immune system based on interval type-2 fuzzy set paradigm. <i>Applied Soft Computing Journal,</i> 2011, 11, 4055-4063	7.5	14

- 300 Evolving boundary detector for anomaly detection. **2011**, 38, 2412-2420 16
- 299 Intrusion detection and self healing model for network security. **2011**,
- 298 Patterns of Self-Organizing Agile Security for Resilient Network Situational Awareness and Sensemaking. **2011**, 4
- 297 Digital Information Processing and Communications. **2011**, 1
- 296 An immune based method for harmful network text information discovery. **2011**,
- 295 A Dynamic Intrusion Detection Model Based on Immunity for Wireless Sensor Network. **2011**,
- 294 Prediction of Networks Security Situation Based on Wavelet Kernel Function Network. **2011**, 127, 53-58
- 293 Danger Theory Based Model for Network Security Risk Assessment. **2011**, 187, 148-154 2
- 292 Improved Agent Model for Network Security Evaluation Based on AIS. **2011**,
- 291 Detecting software aging of web servers with real-valued negative selection algorithm. **2011**,
- 290 A Security Model for Multi-Agent Based on DFL. **2012**, 546-547, 1152-1157
- 289 An Immune Intrusion Detection Model Based on One-Class Classification Technology. **2012**, 457-458, 979-984
- 288 Proceedings of the International Conference on IT Convergence and Security 2011. **2012**,
- 287 Network Security Evaluation Model Based on Cloud Computing. **2012**, 488-495 1
- 286 Selves distribution optimization in intrusion detection system based on immunity. **2012**,
- 285 SmartContent: A Self-Protecting and Context-Aware Active Content. **2012**,
- 284 An Artificial Immune System for Classification With Local Feature Selection. **2012**, 16, 847-860 37
- 283 Malware Detection Techniques Using Artificial Immune System. **2012**, 575-587 3

282	Efficient immune algorithm for optimal allocations in series-parallel continuous manufacturing systems. 2012 , 23, 1603-1619	17
281	Application of an artificial immune system-based fuzzy neural network to a RFID-based positioning system. 2012 , 63, 943-956	24
280	An Artificial Immune System Based on Holland's Classifier as Network Intrusion Detection. 2012 ,	1
279	Convergence analysis and performance of an extended central force optimization algorithm. 2012 , 219, 2246-2259	17
278	Modified Self-adaptive Immune Genetic Algorithm for Optimization of Combustion Side Reaction of p-Xylene Oxidation. 2012 , 20, 1047-1052	6
277	9.16 Systems Immunology: A Primer for Biophysicists. 2012 , 389-413	
276	An artificial immune system for phishing detection. 2012 ,	5
275	IMMUNOLOGY AND ARTIFICIAL IMMUNE SYSTEMS. 2012 , 21, 1250031	2
274	. 2012 , 19, 74-84	4
273	Proceedings of 2013 Chinese Intelligent Automation Conference. 2013 ,	0
272	An appraisal and design of a multi-agent system based cooperative wireless intrusion detection computational intelligence technique. 2013 , 26, 2105-2127	80
271	Simulation of Protection Mechanisms Based on "Nervous Network System" against Infrastructure Attacks. 2013 ,	2
270	Advances in Applied Self-Organizing Systems. 2013 ,	3
269	The application of an artificial immune system-based back-propagation neural network with feature selection to an RFID positioning system. 2013 , 29, 431-438	26
268	Proceedings of All India Seminar on Biomedical Engineering 2012 (AISOB E 2012). 2013 ,	
267	Application of the feature-detection rule to the Negative Selection Algorithm. 2013 , 40, 3001-3014	18
266	Generation of a new IDS test dataset: Time to retire the KDD collection. 2013 ,	110
265	Artificial immunity-based anomaly detection of network user behavior. 2013 ,	2

264	Mobile agent based artificial immune system for machine condition monitoring. 2013,	
263	. 2013, 15, 1160-1191	17
262	Genetic optimized artificial immune system in spam detection: a review and a model. 2013, 40, 305-377	12
261	A Novel Approach to IoT Security Based on Immunology. 2013,	20
260	On the equivalences and differences of evolutionary algorithms. 2013, 26, 2397-2407	35
259	Bic-NSCSA: A hybrid artificial immune system model for DNA microarray bi-clustering. 2013,	
258	Detector optimization algorithm with co-evolution in immunity-based intrusion detection system. 2013,	0
257	The localized discovery and recovery for query packet losses in wireless sensor networks with distributed detector clusters. 2013, 13, 7472-91	4
256	An Improved Artificial Immune System Model. 2013, 420, 311-317	
255	Computer Immunity Using an Intrusion Detection System (IDS). 2013, 824, 200-205	0
254	A Dynamic Artificial Immune-based Intrusion Detection Method using Rough And Fuzzy Set. 2013,	2
253	The framework for simulation of bioinspired security mechanisms against network infrastructure attacks. 2014, 2014, 172583	0
252	Recent Advances on Soft Computing and Data Mining. <i>Advances in Intelligent Systems and Computing, 2014,</i>	0.4 3
251	A cognitive computational model inspired by the immune system response. 2014, 2014, 852181	1
250	. 2014,	6
249	Artificial immune system and sheep flock algorithms for two-stage fixed-charge transportation problem. 2014, 63, 1465-1479	7
248	Immune-Based Systems on Network Security Situation Awareness and Risk Prediction Model. 2014, 643, 99-104	
247	Comparative Performance Analysis of Negative Selection Algorithm with Immune and Classification Algorithms. <i>Advances in Intelligent Systems and Computing, 2014,</i> 441-452	0.4 6

246	Integrated intrusion detection model based on artificial immune. 2014 , 21, 83-90		3
245	Improved thresholding based on negative selection algorithm (NSA). 2014 , 6, 157-170		7
244	Monitoring applications: An immune inspired algorithm for software-fault detection. <i>Applied Soft Computing Journal</i> , 2014 , 24, 1095-1104	7.5	3
243	Cybersecurity dynamics. 2014 ,		31
242	Database and Expert Systems Applications. <i>Lecture Notes in Computer Science</i> , 2014 ,	0.9	
241	Hybrid biogeography-based evolutionary algorithms. 2014 , 30, 213-224		33
240	Designing and performance analysis of nano machines network for synthetic immune system. 2014 ,		1
239	Analysis of operating system diversity for intrusion tolerance. 2014 , 44, 735-770		35
238	. 2014 , 63, 807-819		151
237	Hybrid quantum crossover based immune clonal algorithm and its application. 2014 ,		1
236	ISHM-oriented adaptive fault diagnostics for avionics based on a distributed intelligent agent system. 2015 , 46, 2287-2302		6
235	Application of an AIS to the problem of through life health management of remotely piloted aircraft. 2015 ,		
234	Multiple-negative survey method for enhancing the accuracy of negative survey-based cloud data privacy. 2015 ,		1
233	An Efficient Approximation Method for Calculating Confidence Level of Negative Survey. 2015 , 2015, 1-9		2
232	Simulation of Bio-inspired Security Mechanisms against Network Infrastructure Attacks. 2015 , 127-133		1
231	Negative Survey-Based Privacy Protection of Cloud Data. <i>Lecture Notes in Computer Science</i> , 2015 , 151-159		7
230	Sensor Systems and Software. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 ,	0.2	
229	Software Engineering in Intelligent Systems. <i>Advances in Intelligent Systems and Computing</i> , 2015 ,	0.4	1

228	Advances in Swarm and Computational Intelligence. <i>Lecture Notes in Computer Science</i> , 2015 ,	0.9
227	A distanced machinery controlling and monitoring guardian. 2015 ,	
226	An Optimisation Algorithm Inspired by Dendritic Cells. 2015 , 169-180	
225	Multi-objective software assignment for active cyber defense. 2015 ,	
224	Network Attack Detection Based on Combination of Neural, Immune and Neuro-Fuzzy Classifiers. 2015 ,	16
223	Artificial Immune System Based Web Page Classification. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 189-199	0.4 4
222	Distributed nestmate recognition in ants. 2015 , 282, 20142838	30
221	A novel hybrid multi-objective immune algorithm with adaptive differential evolution. 2015 , 62, 95-111	84
220	Securing the Internet of Things with Responsive Artificial Immune Systems. 2015 ,	13
219	Natural Computing Algorithms. 2015 ,	47
218	Brief History and Overview of Intelligent Optimization Algorithms. 2015 , 3-33	2
217	Learning Effective Connectivity Network Structure from fMRI Data Based on Artificial Immune Algorithm. 2016 , 11, e0152600	7
216	Universal Steganography Detector Based on an Artificial Immune System for JPEG Images. 2016 ,	5
215	From Cellular Attractor Selection to Adaptive Signal Control for Traffic Networks. 2016 , 6, 23048	9
214	Cross-layer personalization as a first-class citizen for situation awareness and computer infrastructure security. 2016 ,	
213	Intrusion Detection Using a Multiple-Detector Set Artificial Immune System. 2016 ,	8
212	Multi-Agent Systems and Agreement Technologies. <i>Lecture Notes in Computer Science</i> , 2016 ,	0.9
211	Artificial Immune Systems. 2016 , 175-189	

210	Behavioral Modeling Intrusion Detection System (BMIDS) Using Internet of Things (IoT) Behavior-Based Anomaly Detection via Immunity-Inspired Algorithms. 2016,	25
209	Distributed Network Intrusion Detection Systems: An Artificial Immune System Approach. 2016,	23
208	Security, Privacy and Anonymity in Computation, Communication and Storage. <i>Lecture Notes in Computer Science</i> , 2016,	0.9 2
207	Artificial immune system based on adaptive clonal selection for feature selection and parameters optimisation of support vector machines. 2016, 28, 47-62	2
206	Mapping Biological Systems to Network Systems. 2016,	11
205	Networked Neural Systems. 2016, 231-242	1
204	Bio-inspired packet dropping for ad-hoc social networks. 2017, 30, e2857	3
203	Multiagent Model for Distributed Peak Shaving System with Demand-Side Management Approach. 2017,	3
202	Artificial registration of network stress to self-Monitor an autonomic computing system. 2017,	
201	Broaden the minority class space for decision tree induction using antigen-derived detectors. 2017, 137, 196-205	4
200	Deterministic Dendritic Cell Algorithm Application to Smart Grid Cyber-Attack Detection. 2017,	11
199	Detecting Denial of Service Attacks Using a Combination of Dendritic Cell Algorithm and the Negative Selection Algorithm. 2017,	9
198	The AWA Artificial emergent aWareness Architecture model for Artificial Immune Ecosystems. 2017,	1
197	A fast hyperspectral subpixel mapping algorithm based on MAP-TV framework. 2017,	
196	Applications of artificial immune systems to computer security: A survey. 2017, 35, 138-159	25
195	A Biological Immune System (BIS) inspired Mobile Agent Platform (MAP) security architecture. 2017, 72, 269-282	3
194	Machine Learning Paradigms. 2017,	
193	Hybridization of computational intelligence methods for attack detection in computer networks. 2017, 23, 145-156	14

192	Multiple-negative survey method for enhancing the accuracy of negative survey-based cloud data privacy: Applications and extensions. 2017 , 62, 350-358		6
191	Application of artificial immune systems for the creation of IoT intrusion detection systems. 2017 ,		6
190	Denial of service attack detection using dendritic cell algorithm. 2017 ,		11
189	Application of Rough Sets to Negative Selection Algorithms. <i>Lecture Notes in Computer Science</i> , 2017 , 381-394	0.9	2
188	Recent advances in clonal selection algorithms and applications. 2017 ,		3
187	A study on estimation of distribution algorithm based on a partial differential equation model. 2017 ,		
186	A Method of Semantic Hidden Reduction Based on Collocation. 2017 , 10, 73		
185	Fault Diagnostics. 2017 , 247-317		0
184	An Artificial Immune Network for Distributed Demand-Side Management in Smart Grids. 2018 , 438, 32-45		10
183	Artificial immune system-based music recommendation. 2018 , 12, 213-229		2
182	A collaborative detection approach for internal steam leakage of tyre vulcanization workshop with artificial immune algorithm. 2018 , 37, 4219-4236		0
181	Clustering algorithm for internet of vehicles (IoV) based on dragonfly optimizer (CAVDO). <i>Journal of Supercomputing</i> , 2018 , 74, 4542-4567	2.5	52
180	Degeneration Recognizing Clonal Selection Algorithm for Multimodal Optimization. 2018 , 48, 848-861		14
179	An intelligent method for generating artificial earthquake records based on hybrid PSO β parallel brain emotional learning inspired model. 2018 , 34, 449-463		3
178	Bio-Inspired Optimization Algorithms. 2018 , 317-391		1
177	. 2018 ,		1
176	For a refoundation of Artificial Immune System research: AIS is a Design Pattern. 2018 ,		0
175	A Study on the Adaptability of Immune models for Wireless Sensor Network Security. 2018 , 145, 13-19		6

174	Insider Threat Detection using an Artificial Immune system Algorithm. 2018,		1
173	Survey on Malicious Code Intelligent Detection Techniques. 2018, 1087, 062026		
172	A Multi-Level Intrusion Detection System for Wireless Sensor Networks Based on Immune Theory. <i>IEEE Access</i> , 2018, 6, 47364-47373	3.5	30
171	A novel hybrid bat algorithm for solving continuous optimization problems. <i>Applied Soft Computing Journal</i> , 2018, 73, 67-82	7.5	43
170	Survey on evolutionary computation methods for cybersecurity of mobile ad hoc networks. 2018, 10, 95-117		19
169	An Extreme Learning Machine Based on Artificial Immune System. 2018, 2018, 3635845		4
168	Condition Monitoring and Operational Decision-Making in Modern Semiconductor Manufacturing Systems. 2018, 41-66		1
167	Securing the Internet of Things in the Age of Machine Learning and Software-Defined Networking. 2018, 5, 4829-4842		113
166	Toward Network-based DDoS Detection in Software-defined Networks. 2018,		2
165	Modeling an Intrusion Detection System Based on Adaptive Immunology. 2019, 11, 42-55		2
164	Using a Novel Negative Selection Inspired Anomaly Detection Algorithm to Identify Corrupted Ribo-seq and RNA-seq Samples. 2019,		1
163	Industrial Control Systems Security and Resiliency. <i>Advances in Information Security</i> , 2019,	0.7	6
162	BIDS: Bio-Inspired, Collaborative Intrusion Detection for Software Defined Networks. 2019,		3
161	Clustering-Based Modified Ant Colony Optimizer for Internet of Vehicles (CACIOV). 2019, 11, 2624		14
160	Complete receptor editing operation based on quantum clonal selection algorithm for optimization problems. 2019, 14, 411-421		2
159	Review of Innovative Cyberspace Security Research Inspired by Bionics Computing Methods. 2019,		
158	Data-driven modeling and learning in science and engineering. 2019, 347, 845-855		56
157	A Novelty Network Attack Detection Model based on Immunology. 2019,		0

156	Dendritic Cell Algorithm Enhancement Using Fuzzy Inference System for Network Intrusion Detection. 2019 ,		3
155	Design and implementation of Negative Authentication System. 2019 , 18, 23-48		2
154	Multiple-Solution Optimization Strategy for Multirobot Task Allocation. 2020 , 50, 4283-4294		11
153	NSNAD: negative selection-based network anomaly detection approach with relevant feature subset. 2020 , 32, 3475-3501		9
152	An integrated model for maintenance policies and production scheduling based on immune culture algorithm. 2020 , 234, 651-663		2
151	A Comprehensive Review of the Load Forecasting Techniques Using Single and Hybrid Predictive Models. <i>IEEE Access</i> , 2020 , 8, 134911-134939	3.5	50
150	Improved Artificial Immune System Algorithm for Type-2 Fuzzy Flexible Job Shop Scheduling Problem. 2020 , 1-1		30
149	A Spherical Search-based Archive Update Mechanism for Self-adaptive Differential Evolution. 2020 ,		
148	Secure Resilient Edge Cloud Designed Network. 2020 , E103.B, 292-301		2
147	Margin setting algorithm for pattern classification via spheres. 2020 , 23, 1677-1688		
146	Bio-inspired VANET routing optimization: an overview. 2021 , 54, 1005-1062		14
145	Using Machine Learning to Analyze Network Traffic Anomalies. 2021 ,		
144	Biological computation and computational biology: survey, challenges, and discussion. 2021 , 54, 4169-4235		1
143	Negative selection algorithm based methodology for online structural health monitoring. 2021 , 229, 111662		4
142	Non-revisiting stochastic search revisited: Results, perspectives, and future directions. 2021 , 61, 100828		4
141	A New Two-Stage Algorithm for Solving Optimization Problems. 2021 , 23,		10
140	Using known nonself samples to improve negative selection algorithm. 1		
139	An Improved Method for Distributed Localization in WSNs Based on Fruit Fly Optimization Algorithm. 2021 , 55, 287-297		4

138	Grey wolf optimizer and other metaheuristic optimization techniques with image processing as their applications: a review. 2021 , 1136, 012053		3
137	Teamwork Optimization Algorithm: A New Optimization Approach for Function Minimization/Maximization. 2021 , 21,		15
136	Cardiovascular Disease Detection using Artificial Immune System and other Machine Learning Models. 2021 , 1950, 012032		
135	A Review on Representative Swarm Intelligence Algorithms for Solving Optimization Problems: Applications and Trends. 2021 , 8, 1627-1643		64
134	Artificial immune system training algorithm for a dendritic neuron model. 2021 , 233, 107509		2
133	AMBO: All Members-Based Optimizer for Solving Optimization Problems. <i>Computers, Materials and Continua</i> , 2022 , 70, 2905-2921	3.9	8
132	Challenges in Modeling of an Outbreak Prediction, Forecasting and Decision Making for Policy Makers. <i>Infosys Science Foundation Series</i> , 2021 , 377-408	0.1	
131	Heuristic Approach Performances for Artificial Neural Networks Training. 2021 , 382-401		
130	On Permutation Masks in Hamming Negative Selection. <i>Lecture Notes in Computer Science</i> , 2006 , 122-135.	0.9	8
129	Immune Algorithm Optimization of Membership Functions for Mining Association Rules. <i>Lecture Notes in Computer Science</i> , 2006 , 92-99	0.9	3
128	Using an Immune System Model to Explore Mate Selection in Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2003 , 1041-1052	0.9	3
127	The Effect of Binary Matching Rules in Negative Selection. <i>Lecture Notes in Computer Science</i> , 2003 , 195-206	0.9	34
126	Towards a Model for an Immune System. <i>Lecture Notes in Computer Science</i> , 2002 , 401-410	0.9	1
125	Immune System Support for Scheduling. 2008 , 247-270		1
124	Self-Organizing and Self-Healing Schemes in Wireless Sensor Networks. 2009 , 293-304		5
123	Artificial Immune Systems. 2017 , 159-235		11
122	Immune Approach to the Protection of IoT Devices. <i>Lecture Notes in Computer Science</i> , 2016 , 75-92	0.9	2
121	A New Classification Process for Network Anomaly Detection Based on Negative Selection Mechanism. <i>Lecture Notes in Computer Science</i> , 2016 , 238-248	0.9	2

120	Constructing Detectors in Schema Complementary Space for Anomaly Detection. <i>Lecture Notes in Computer Science</i> , 2004 , 275-286	0.9	5
119	Brain Emotional Learning Based Intelligent Controller Applied to Gas Metal Arc Welding System. <i>Lecture Notes in Computer Science</i> , 2004 , 1001-1002	0.9	1
118	Decentralized Detector Generation in Cooperative Intrusion Detection Systems. 2007 , 37-51		4
117	Bio-Inspired Networking in Self-Organizing Networked Embedded Systems. 2009 , 285-302		2
116	A Hybrid Model for Immune Inspired Network Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2008 , 107-118	0.9	8
115	Negative Selection with Antigen Feedback in Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2008 , 200-209	0.9	8
114	PSO-Optimized Negative Selection Algorithm for Anomaly Detection. 2009 , 13-21		5
113	A Review on Concepts, Algorithms and Recognition Based Applications of Artificial Immune System. 2008 , 569-576		3
112	An Immune Multi-agent System for Network Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2008 , 436-445	0.9	1
111	Optimization of Real-Valued Self Set for Anomaly Detection Using Gaussian Distribution. <i>Lecture Notes in Computer Science</i> , 2009 , 112-120	0.9	1
110	Immune Systems Inspired Approach to Anomaly Detection, Fault Localization and Diagnosis in Automotive Engines. 2010 , 141-163		4
109	Modular RADAR: An Immune System Inspired Search and Response Strategy for Distributed Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 116-129	0.9	6
108	Further Experimentation with Hybrid Immune Inspired Network Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2010 , 264-275	0.9	4
107	Danger Theory and Intrusion Detection: Possibilities and Limitations of the Analogy. <i>Lecture Notes in Computer Science</i> , 2010 , 276-289	0.9	4
106	Immune System Inspired Reliable Query Dissemination in Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 282-293	0.9	4
105	Towards a Mapping of Modern AIS and LCS. <i>Lecture Notes in Computer Science</i> , 2011 , 371-382	0.9	1
104	Hybrid Negative Selection Approach for Anomaly Detection. <i>Lecture Notes in Computer Science</i> , 2012 , 242-253	0.9	7
103	Embryomorphic Engineering: Emergent Innovation Through Evolutionary Development. 2012 , 275-311		12

102	A Hybrid Hypercube and Spherical Evolution for Optimization. 2019,		1
101	An Immune Inspired Approach to Anomaly Detection.		2
100	An Artificial Immune System as a Recommender System for Web Sites.		16
99	Artificial Immune Systems for Anomaly Detection in Ambient Assisted Living Applications. 2013, 5, 1-15		16
98	An Improved Artificial Immune System-Based Network Intrusion Detection by Using Rough Set. 2012, 04, 41-47		8
97	Artificial Immunity-based Security Response Model for the Internet of Things. 2013, 8,		3
96	Artificial Immune Danger Theory Based Model for Network Security Evaluation. 2011, 6,		5
95	The Effect of Real-valued Negative Selection Algorithm on Web Server Aging Detection. 2012, 7,		2
94	A Biologically Inspired New Hardware Fault Detection: immunotronic and Genetic Algorithm-Based Approach. 2004, 4, 7-11		1
93	Active Data. <i>Lecture Notes in Computer Science, 2003, 1454-1470</i>		0.9
92	Artificial Immune System and Intrusion Detection Tutorial.		
91	A New Artificial Immune Approach to Hardware Test Based on the Principle of Antibody Diversity. 2003, 3, 23-26		
90	Attack Evidence Detection, Recovery, and Signature Extraction with ADenoldS. <i>Lecture Notes in Computer Science, 2004, 1083-1092</i>		0.9
89	LMS Adaptive Notch Filter Design Based on Immune Algorithm. <i>Lecture Notes in Computer Science, 2004, 311-316</i>		0.9
88	Using Evolutionary Learning of Behavior to Find Weaknesses in Operating Systems. <i>Lecture Notes in Computer Science, 2004, 381-390</i>		0.9
87	HMMs for Anomaly Intrusion Detection. <i>Lecture Notes in Computer Science, 2004, 692-697</i>		0.9 3
86	Self-regulating Method for Model Library Based Artificial Immune Systems. <i>Lecture Notes in Computer Science, 2005, 353-365</i>		0.9 1
85	An AIS-Based Dynamic Routing (AISDR) Framework. <i>Lecture Notes in Computer Science, 2005, 56-71</i>		0.9 1

84	A New Model for Dynamic Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2005 , 72-84	0.9	4
83	A New Model of Immune-Based Network Surveillance and Dynamic Computer Forensics. <i>Lecture Notes in Computer Science</i> , 2005 , 804-813	0.9	
82	Profiling Network Attacks Via AIS. <i>Lecture Notes in Computer Science</i> , 2006 , 272-277	0.9	
81	A Bio-inspired Approach for Self-protecting an Organic Middleware with Artificial Antibodies. <i>Lecture Notes in Computer Science</i> , 2006 , 202-215	0.9	3
80	An Improved Artificial Immune System (AIS) by Considering Different Affinities among Th Cells and Antigens. 2007 , 127, 389-396		
79	Defence Against 802.11 DoS Attacks Using Artificial Immune System. <i>Lecture Notes in Computer Science</i> , 2007 , 95-106	0.9	3
78	Artificial Immunity-Based Discovery for Popular Information in WEB Pages. <i>Lecture Notes in Computer Science</i> , 2007 , 166-169	0.9	
77	Autonomous Systems with Emergent Behavior. 2007 , 429-443		1
76	Sensing Danger: Innate Immunology for Intrusion Detection.		
75	Biologically Inspired Approaches to Networks: The Bio-Networking Architecture and the Molecular Communication. <i>Lecture Notes in Computer Science</i> , 2008 , 241-254	0.9	2
74	The Concept of Bio-fitness in Bio-inspired Computational Metaphor Abstraction. 2008 , 215-226		
73	A Network Intrusion Detection Model Based on Immune Multi-Agent. <i>International Journal of Communications, Network and System Sciences</i> , 2009 , 02, 569-574	0.2	1
72	An Immunity Inspired Real-Time Cooperative Control Framework for Networked Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , 2009 , 234-247	0.9	2
71	A Bio-Inspired Concept for Information Security Modelling. 2010 , 1, 53-67		
70	Other Evolutionary Concepts. 2010 , 249-273		
69	Artificial Immune Systems. 2010 , 355-379		
68	Enhancing Efficiency of Intrusion Prediction Based on Intelligent Immune Method. <i>Lecture Notes in Computer Science</i> , 2010 , 599-606	0.9	0
67	Safety Considerations. 2011 , 205-236		

- 66 Review of Power Quality Disturbances Classification Using Variable Size Detector (V-Detector). **2011**, 193-198
- 65 A Distributed Surveillance Model for Network Security Inspired by Immunology. *Lecture Notes in Computer Science*, **2011**, 53-60 0.9
- 64 On Leveraging Stochastic Models for Remote Attestation. *Lecture Notes in Computer Science*, **2011**, 290-301 3
- 63 Multilevel Network Security Monitoring and Evaluation Model. **2011**, 6,
- 62 AIB-SPMDM: A Smartphone Malware Detection Model Based on Artificial Immunology. **2012**, 457-465
- 61 Combating Security Threats via Immunity and Adaptability in Cognitive Radio Networks. **2012**, 221-242 1
- 60 Applications of Biological Concepts to Designs of Computer Networks and Network Applications. 1012-1021 1
- 59 Self Tolerance by Tuning T-Cell Activation: An Artificial Immune System for Anomaly Detection. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2012**, 1-15 0.2 2
- 58 Biologically Motivated Approaches for Complex Problem Solving. **2013**, 201-208
- 57 Immune System Support for Scheduling. **2013**, 295-319
- 56 Immune Network Risk Evaluation Model Based on the Spreading of Infectious Diseases. **2013**, 333-340
- 55 Cloud Computing for Network Security Intrusion Detection System. **2013**, 8, 2
- 54 A Novel Multi-layered Immune Network Intrusion Detection Defense Model: MINID. **2013**, 8, 3
- 53 Hardware Approach for Generating b-detectors by Immune-Based Algorithms. *Lecture Notes in Computer Science*, **2014**, 615-623 0.9 2
- 52 Genetic Algorithm Approach for Non-self OS Process Identification. *Advances in Intelligent Systems and Computing*, **2014**, 517-527 0.4
- 51 Application of Biologically Inspired Techniques for Industrial and Environmental Research via Air Quality Monitoring Network. *Advances in Data Mining and Database Management Book Series*, **2014**, 272-298 0.6
- 50 Data Integration Technology for Industrial and Environmental Research via Air Quality Monitoring Network. *Advances in Knowledge Acquisition, Transfer and Management Book Series*, **2015**, 158-192 0.3
- 49 Artificial Immune System - A New Approach for the Long-Term Data Monitoring in Ambient Assisted Living. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2015**, 41-50 0.2

48	From Learning Management System to Internet-Based Research in Mathematics Education. <i>Advances in Mobile and Distance Learning Book Series</i> , 2015 , 62-85	0.3	
47	Application of Information and Communication Technology to Create E-Learning Environments for Mathematics Knowledge Learning to Prepare for Engineering Education. <i>Advances in Educational Technologies and Instructional Design Book Series</i> , 2015 , 438-467	0.3	
46	Application of Artificial Intelligence Techniques to Handle the Uncertainty in the Chemical Process for Environmental Protection. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2015 , 446-477	0.4	1
45	Variable Length Concentration-Based Feature Construction Method. 2016 , 154-163		
44	A Review of Artificial Immune System Based Security Frameworks for MANET. <i>International Journal of Communications, Network and System Sciences</i> , 2016 , 09, 1-18	0.2	1
43	Immunology and Immune System. 2016 , 51-65		0
42	Multiagent Model for Agile Context Inference Based on Artificial Immune Systems and Sparse Distributed Representations. <i>Lecture Notes in Computer Science</i> , 2016 , 82-87	0.9	1
41	Negative Authentication Systems. <i>Infosys Science Foundation Series</i> , 2017 , 85-145	0.1	3
40	From Learning Management System to Internet-Based Research in Mathematics Education. 2018 , 746-770		
39	A Computational Intelligence Approach for Cancer Detection Using Artificial Immune System. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 463-474	0.4	0
38	Moving Target Defense to Improve Industrial Control System Resiliency. <i>Advances in Information Security</i> , 2019 , 143-167	0.7	3
37	Data Mining Techniques for Distributed Denial of Service Attacks Detection in the Internet of Things. 2020 , 561-608		
36	Vibration-Based Fault Detection in a Hydraulic Brake System using Artificial Immune Recognition System with Statistical Features. 2020 ,		0
35	A Framework for Mimic Defense System in Cyberspace. <i>Journal of Signal Processing Systems</i> , 2021 , 93, 169-185	1.4	5
34	NKA: a pathogen dose-based natural killer cell algorithm and its application to classification. <i>Journal of Supercomputing</i> , 2022 , 78, 7016	2.5	0
33	A Bio-Inspired Concept for Information Security Modelling. 247-262		
32	Application of Information and Communication Technology to Create E-Learning Environments for Mathematics Knowledge Learning to Prepare for Engineering Education. <i>Advances in Educational Technologies and Instructional Design Book Series</i> , 345-373	0.3	1
31	From Learning Management System to Internet-Based Research in Mathematics Education. 1500-1523		

30	Data Mining Techniques for Distributed Denial of Service Attacks Detection in the Internet of Things. <i>Advances in Data Mining and Database Management Book Series</i> , 275-334	0.6	1
29	Application of Artificial Intelligence Techniques to Handle the Uncertainty in the Chemical Process for Environmental Protection. 1229-1260		
28	Application of Biologically Inspired Techniques for Industrial and Environmental Research via Air Quality Monitoring Network. 1261-1288		
27	A Behavior-Based Anti-Spam Technology Based on Immune-Inspired Clustering Algorithm. 2005 , 213-222		
26	Anomaly Detection System for Network Security: Immunity-based Approach. 2005 , 486-490		1
25	Controlling Spam: Immunity-based Approach. 2006 , 31-40		
24	Intrusion Detection via Artificial Immune System: a Performance-based Approach. <i>International Federation for Information Processing</i> , 2008 , 125-135		1
23	Information Theory Inspired Weighted Immune Classification Algorithm. <i>Lecture Notes in Computer Science</i> , 2008 , 652-660	0.9	
22	Research of Immune Neural Network Model Based on Extenics. <i>Lecture Notes in Computer Science</i> , 2007 , 18-27	0.9	
21	A Type-2 Fuzzy Set Recognition Algorithm for Artificial Immune Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 491-498	0.9	1
20	Some Issues in Solving the Anomaly Detection Problem using Immunological Approach.		2
19	A Framework for Detecting Hardware Trojans in RTL Using Artificial Immune Systems. 2022 , 265-287		
18	Archery Algorithm: A Novel Stochastic Optimization Algorithm for Solving Optimization Problems. <i>Computers, Materials and Continua</i> , 2022 , 72, 399-416	3.9	3
17	Tasmanian Devil Optimization: A New Bio-Inspired Optimization Algorithm for Solving Optimization Algorithm. <i>IEEE Access</i> , 2022 , 10, 19599-19620	3.5	8
16	Trustworthy Machine Learning for Cloud-Based Internet of Things (IoT). 2022 , 155-167		0
15	Temporal Logic-Based Artificial Immune System for Intrusion Detection. <i>Wireless Communications and Mobile Computing</i> , 2022 , 2022, 1-9	1.9	
14	DIDA:A Dynamic Immunity-based Defense Approach for Advanced Persistent Threats. 2021 ,		
13	A new optimization algorithm based on mimicking the voting process for leader selection. <i>PeerJ Computer Science</i> , 8, e976	2.7	1

12	High-utility itemsets mining based on binary particle swarm optimization with multiple adjustment strategies. <i>Applied Soft Computing Journal</i> , 2022 , 124, 109073	7.5	1
11	Cost Reassignment for Improving Security of Adaptive Steganography Using an Artificial Immune System. <i>IEEE Signal Processing Letters</i> , 2022 , 1-5	3.2	
10	Artificial Immune System and Artificial Neural Network in Intrusion Detection System. <i>Studies in Distributed Intelligence</i> , 2022 , 795-806	0.3	
9	Anomaly Detection-Based Negative Selection Algorithm. <i>Studies in Distributed Intelligence</i> , 2022 , 99-105	0.3	
8	MLP-PSO Hybrid Algorithm for Heart Disease Prediction. <i>Journal of Personalized Medicine</i> , 2022 , 12, 1208	3.6	5
7	Modern Immunological Models and Their Applications. 2022 , 61-77		0
6	Coati Optimization Algorithm: A new bio-inspired metaheuristic algorithm for solving optimization problems. 2022 , 110011		4
5	Genetic Algorithms For Tightening Security. 2022 ,		0
4	Multi-objective dynamic distribution adaptation with instance reweighting for transfer feature learning. 2023 , 110303		1
3	Billiards Optimization Algorithm: A New Game-Based Metaheuristic Approach. 2023 , 74, 5283-5300		0
2	Nanoparticles: Taking a Unique Position in Medicine. 2023 , 13, 574		2
1	Studying the Effect of Introducing Chaotic Search on Improving the Performance of the Sine Cosine Algorithm to Solve Optimization Problems and Nonlinear System of Equations. 2023 , 11, 1231		0