

# Abdul Sattar

## List of Publications by Citations

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131  
papers

2,004  
citations

22  
h-index

41  
g-index

132  
ext. papers

2,344  
ext. citations

2.6  
avg, IF

5  
L-index

#	Paper	IF	Citations
131	Improving prediction of secondary structure, local backbone angles, and solvent accessible surface area of proteins by iterative deep learning. <i>Scientific Reports</i> , <b>2015</b> , 5, 11476	4.9	227
130	Gram-positive and Gram-negative protein subcellular localization by incorporating evolutionary-based descriptors into Chou's general PseAAC. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 364, 284-94	2.3	206
129	Predicting backbone C $\alpha$ angles and dihedrals from protein sequences by stacked sparse auto-encoder deep neural network. <i>Journal of Computational Chemistry</i> , <b>2014</b> , 35, 2040-6	3.5	110
128	SPIDER2: A Package to Predict Secondary Structure, Accessible Surface Area, and Main-Chain Torsional Angles by Deep Neural Networks. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1484, 55-63	1.4	89
127	Local search with edge weighting and configuration checking heuristics for minimum vertex cover. <i>Artificial Intelligence</i> , <b>2011</b> , 175, 1672-1696	3.6	88
126	EASE-MM: Sequence-Based Prediction of Mutation-Induced Stability Changes with Feature-Based Multiple Models. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 1394-1405	6.5	72
125	Highly accurate sequence-based prediction of half-sphere exposures of amino acid residues in proteins. <i>Bioinformatics</i> , <b>2016</b> , 32, 843-9	7.2	65
124	SucStruct: Prediction of succinylated lysine residues by using structural properties of amino acids. <i>Analytical Biochemistry</i> , <b>2017</b> , 527, 24-32	3.1	46
123	PSSM-Suc: Accurately predicting succinylation using position specific scoring matrix into bigram for feature extraction. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 425, 97-102	2.3	44
122	DDIG-in: detecting disease-causing genetic variations due to frameshifting indels and nonsense mutations employing sequence and structural properties at nucleotide and protein levels. <i>Bioinformatics</i> , <b>2015</b> , 31, 1599-606	7.2	44
121	A combination of feature extraction methods with an ensemble of different classifiers for protein structural class prediction problem. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2013</b> , 10, 564-75	3	41
120	Success: evolutionary and structural properties of amino acids prove effective for succinylation site prediction. <i>BMC Genomics</i> , <b>2018</b> , 19, 923	4.5	40
119	Twin removal in genetic algorithms for protein structure prediction using low-resolution model. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2011</b> , 8, 234-45	3	39
118	Scatter search for mixed blocking flowshop scheduling. <i>Expert Systems With Applications</i> , <b>2017</b> , 79, 20-32	7.8	37
117	Improving succinylation prediction accuracy by incorporating the secondary structure via helix, strand and coil, and evolutionary information from profile bigrams. <i>PLoS ONE</i> , <b>2018</b> , 13, e0191900	3.7	35
116	Extended HP model for protein structure prediction. <i>Journal of Computational Biology</i> , <b>2009</b> , 16, 85-103	1.7	32
115	Model Checking Temporal Logics of Knowledge Via OBDDs1. <i>Computer Journal</i> , <b>2007</b> , 50, 403-420	1.3	32

114	Proposing a highly accurate protein structural class predictor using segmentation-based features. <i>BMC Genomics</i> , <b>2014</b> , 15 Suppl 1, S2	4.5	30
113	A Segmentation-Based Method to Extract Structural and Evolutionary Features for Protein Fold Recognition. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2014</b> , 11, 510-9	3	30
112	INDu: An Interval & Duration Network. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 291-303	0.9	27
111	Efficient Toxicity Prediction via Simple Features Using Shallow Neural Networks and Decision Trees. <i>ACS Omega</i> , <b>2019</b> , 4, 1874-1888	3.9	26
110	A trust management architecture for hierarchical wireless sensor networks <b>2010</b> ,		22
109	A comparative study on network alignment techniques. <i>Expert Systems With Applications</i> , <b>2020</b> , 140, 112883	7.8	22
108	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 20, 627-644	15.6	21
107	Gram-positive and Gram-negative subcellular localization using rotation forest and physicochemical-based features. <i>BMC Bioinformatics</i> , <b>2015</b> , 16 Suppl 4, S1	3.6	21
106	Protein folding prediction in 3D FCC HP lattice model using genetic algorithm <b>2007</b> ,		20
105	Genetic Algorithm in Ab Initio Protein Structure Prediction Using Low Resolution Model: A Review. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 317-342	0.8	18
104	A Dynamic Trust Establishment and Management Framework for Wireless Sensor Networks <b>2010</b> ,		17
103	Kangaroo: An Efficient Constraint-Based Local Search System Using Lazy Propagation. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 645-659	0.9	16
102	Enhancing Protein Fold Prediction Accuracy Using Evolutionary and Structural Features. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 196-207	0.9	16
101	A mixture of physicochemical and evolutionary-based feature extraction approaches for protein fold recognition. <i>International Journal of Data Mining and Bioinformatics</i> , <b>2015</b> , 11, 115-38	0.5	14
100	Spiral search: a hydrophobic-core directed local search for simplified PSP on 3D FCC lattice. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 2, S16	3.6	13
99	Constraint guided accelerated search for mixed blocking permutation flowshop scheduling. <i>Computers and Operations Research</i> , <b>2019</b> , 102, 102-120	4.6	13
98	Artificial intelligence in health - the three big challenges. <i>Australasian Medical Journal</i> , <b>2013</b> , 6, 315-7	2	12
97	Memory-based local search for simplified protein structure prediction <b>2012</b> ,		12

96	A Constraint-Based Autonomous 3D Camera System. <i>Constraints</i> , <b>2008</b> , 13, 180-205	0.3	12
95	Modelling and solving temporal reasoning as propositional satisfiability. <i>Artificial Intelligence</i> , <b>2008</b> , 172, 1752-1782	3.6	12
94	Guided macro-mutation in a graded energy based genetic algorithm for protein structure prediction. <i>Computational Biology and Chemistry</i> , <b>2016</b> , 61, 162-77	3.6	11
93	<b>2010</b> ,		11
92	DFS-generated pathways in GA crossover for protein structure prediction. <i>Neurocomputing</i> , <b>2010</b> , 73, 2308-2316	5.4	11
91	Exploring Potential Discriminatory Information Embedded in PSSM to Enhance Protein Structural Class Prediction Accuracy. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 208-219	0.9	11
90	Parallel Late Acceptance Hill-Climbing Algorithm for the Google Machine Reassignment Problem. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 163-174	0.9	11
89	An evolutionary hyper-heuristic to optimise deep belief networks for image reconstruction. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 97, 105510	7.5	11
88	Feature-based multiple models improve classification of mutation-induced stability changes. <i>BMC Genomics</i> , <b>2014</b> , 15 Suppl 4, S6	4.5	10
87	The road not taken: retreat and diverge in local search for simplified protein structure prediction. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 2, S19	3.6	10
86	<b>2010</b> ,		10
85	A New Genetic Algorithm for Simplified Protein Structure Prediction. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 107-119	0.9	10
84	Advanced indexing technique for temporal data. <i>Computer Science and Information Systems</i> , <b>2010</b> , 7, 679-703	0.8	10
83	Scheduling blocking flowshops with setup times via constraint guided and accelerated local search. <i>Computers and Operations Research</i> , <b>2019</b> , 109, 64-76	4.6	9
82	Sequence-only evolutionary and predicted structural features for the prediction of stability changes in protein mutants. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 2, S6	3.6	9
81	How good are simplified models for protein structure prediction?. <i>Advances in Bioinformatics</i> , <b>2014</b> , 2014, 867179	5.5	9
80	An implicit approach to deal with periodically repeated medical data. <i>Artificial Intelligence in Medicine</i> , <b>2012</b> , 55, 149-62	7.4	9
79	Using crucial literals to select better theories. <i>Computational Intelligence</i> , <b>1991</b> , 7, 11-22	2.5	9

78	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2016</b> , 28, 2538-2551	4.2	9
77	Querying now-relative data. <i>Journal of Intelligent Information Systems</i> , <b>2013</b> , 41, 285-311	2.1	8
76	Random-walk <b>2012</b> ,		8
75	Towards sequence-based prediction of mutation-induced stability changes in unseen non-homologous proteins. <i>BMC Genomics</i> , <b>2014</b> , 15 Suppl 1, S4	4.5	7
74	An efficient encoding for simplified protein structure prediction using genetic algorithms <b>2013</b> ,		7
73	Using prediction to improve elective surgery scheduling. <i>Australasian Medical Journal</i> , <b>2013</b> , 6, 287-9	2	7
72	Toxicity Prediction by Multimodal Deep Learning. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 142-152	0.9	7
71	On Fibring Semantics for BDI Logics. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 198-210	0.9	7
70	HseSUMO: Sumoylation site prediction using half-sphere exposures of amino acids residues. <i>BMC Genomics</i> , <b>2019</b> , 19, 982	4.5	6
69	Tailoring customer order scheduling search algorithms. <i>Computers and Operations Research</i> , <b>2019</b> , 108, 155-165	4.6	6
68	Mixing energy models in genetic algorithms for on-lattice protein structure prediction. <i>BioMed Research International</i> , <b>2013</b> , 2013, 924137	3	6
67	Trust Formalization in Mobile Ad-Hoc Networks <b>2010</b> ,		6
66	Protein Fold Recognition Using an Overlapping Segmentation Approach and a Mixture of Feature Extraction Models. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 32-43	0.9	6
65	Constraint-Based Local Search for Golomb Rulers. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 322-331	0.9	6
64	Local Search for Maximum Vertex Weight Clique on Large Sparse Graphs with Efficient Data Structures. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 255-267	0.9	6
63	Enhancing protein backbone angle prediction by using simpler models of deep neural networks. <i>Scientific Reports</i> , <b>2020</b> , 10, 19430	4.9	6
62	A complete first-order temporal BDI logic for forest multi-agent systems. <i>Knowledge-Based Systems</i> , <b>2012</b> , 27, 343-351	7.3	5
61	The POINT approach to represent now in bitemporal databases. <i>Journal of Intelligent Information Systems</i> , <b>2009</b> , 32, 297-323	2.1	5

60	Correcting Missing Data Anomalies with Clausal Defeasible Logic. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 149-163	0.9	5
59	Protein Fold Recognition Using Segmentation-Based Feature Extraction Model. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 345-354	0.9	5
58	Local Search with Noisy Strategy for Minimum Vertex Cover in Massive Graphs. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 283-294	0.9	4
57	A local search embedded genetic algorithm for simplified protein structure prediction <b>2013</b> ,		4
56	A fusion of data analysis and non-monotonic reasoning to restore missed RFID readings <b>2009</b> ,		4
55	An Efficient Algorithm for Solving Dynamic Complex DCOP Problems <b>2009</b> ,		4
54	Probabilistic Belief Revision via Imaging. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 694-707	0.9	4
53	Quantitative Toxicity Prediction via Meta Ensembling of Multitask Deep Learning Models. <i>ACS Omega</i> , <b>2021</b> , 6, 12306-12317	3.9	4
52	Verification of Multi-agent Systems Via Bounded Model Checking. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 69-78	0.9	4
51	Advances in artificial intelligence research in health. <i>Australasian Medical Journal</i> , <b>2012</b> , 5, 475-7	2	3
50	<b>2010</b> ,		3
49	Indexing Temporal Data with Virtual Structure. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 591-594	0.9	3
48	Multiagent Based Scheduling of Elective Surgery. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 74-89	0.9	3
47	Ensemble of Diversely Trained Support Vector Machines for Protein Fold Recognition. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 335-344	0.9	3
46	Stochastic Local Search Based Channel Assignment in Wireless Mesh Networks. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 832-847	0.9	3
45	Constraint guided search for aircraft sequencing. <i>Expert Systems With Applications</i> , <b>2019</b> , 118, 440-458	7.8	3
44	Adaptive Clause Weight Redistribution. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 229-243	0.9	3
43	Towards an Efficient SAT Encoding for Temporal Reasoning. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 421-436	0.9	3

42	A General Approach to Represent and Query Now-Relative Medical Data in Relational Databases. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 327-331	0.9	2
41	Evolutionary Learning Based Iterated Local Search for Google Machine Reassignment Problems. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 409-421	0.9	2
40	Multi-neighbourhood Great Deluge for Google Machine Reassignment Problem. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 706-715	0.9	2
39	Refining Genetic Algorithm twin removal for high-resolution protein structure prediction <b>2012</b> ,		2
38	Genetic algorithm feature-based resampling for protein structure prediction <b>2010</b> ,		2
37	Detecting intrusions within RFID systems through non-monotonic reasoning cleaning <b>2010</b> ,		2
36	Levels of Modalities for BDI Logic <b>2008</b> ,		2
35	Verification of Authentication Protocols for Epistemic Goals via SAT Compilation. <i>Journal of Computer Science and Technology</i> , <b>2006</b> , 21, 932-943	1.7	2
34	DFS Based Partial Pathways in GA for Protein Structure Prediction. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 41-53	0.9	2
33	On the KL Divergence of Probability Mixtures for Belief Contraction. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 249-255	0.9	2
32	Variable Granularity Space Filling Curve for Indexing Multidimensional Data. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 111-124	0.9	2
31	Reasoning with Levels of Modalities in BDI Logic. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 410-415	0.9	2
30	Constraint-Based Evolutionary Local Search for Protein Structures with Secondary Motifs. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 333-344	0.9	2
29	CardioTox net: a robust predictor for hERG channel blockade based on deep learning meta-feature ensembles. <i>Journal of Cheminformatics</i> , <b>2021</b> , 13, 60	8.6	2
28	Constraint-directed search for all-interval series. <i>Constraints</i> , <b>2017</b> , 22, 403-431	0.3	1
27	Mixed Neighbourhood Local Search for Customer Order Scheduling Problem. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 296-309	0.9	1
26	A Parallel Framework for Multipoint Spiral Search in ab Initio Protein Structure Prediction. <i>Advances in Bioinformatics</i> , <b>2014</b> , 2014, 985968	5.5	1
25	Collaborative Parallel Local Search for Simplified Protein Structure Prediction <b>2013</b> ,		1

24	An intelligent approach to handle False-Positive Radio Frequency Identification Anomalies. <i>Intelligent Data Analysis</i> , <b>2011</b> , 15, 931-954	1.1	1
23	Solving Sum and Product Riddle via BDD-Based Model Checking <b>2008</b> ,		1
22	Secondary structure specific simpler prediction models for protein backbone angles.. <i>BMC Bioinformatics</i> , <b>2022</b> , 23, 6	3.6	1
21	Probabilistic Belief Contraction: Considerations on Epistemic Entrenchment, Probability Mixtures and KL Divergence. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 109-122	0.9	1
20	A Method to Avoid Duplicative Flipping in Local Search for SAT. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 218-229	0.9	1
19	A scatter search algorithm for time-dependent prize-collecting arc routing problems. <i>Computers and Operations Research</i> , <b>2021</b> , 134, 105392	4.6	1
18	An Intelligent Approach to Surgery Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 535-550	0.9	0
17	Constraint based local search for flowshops with sequence-dependent setup times. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 102, 104264	7.2	0
16	Makespan preserving flowshop reengineering via blocking constraints. <i>Computers and Operations Research</i> , <b>2019</b> , 112, 104755	4.6	
15	An intensional approach for periodic data in relational databases. <i>Journal of Intelligent Information Systems</i> , <b>2013</b> , 41, 151-186	2.1	
14	AI@NICTA. <i>AI Magazine</i> , <b>2012</b> , 33, 115	6.1	
13	X-CleLo: intelligent deterministic RFID data and event transformer. <i>Personal and Ubiquitous Computing</i> , <b>2012</b> , 16, 259-269	2.1	
12	Levels of modality for BDI Logic. <i>Journal of Applied Logic</i> , <b>2011</b> , 9, 250-273		
11	A causal model for fluctuating sugar levels in diabetes patients. <i>Australasian Medical Journal</i> , <b>2012</b> , 5, 497-502	2	
10	Improving Protein Backbone Angle Prediction Using Hidden Markov Models in Deep Learning. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 239-251	0.9	
9	Exploiting Setup Time Constraints in Local Search for Flowshop Scheduling. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 379-392	0.9	
8	Deterministic Tournament Selection in Local Search for Maximum Edge Weight Clique on Large Sparse Graphs. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 353-364	0.9	
7	A Novel Integrated Classifier for Handling Data Warehouse Anomalies. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 98-110	0.9	



- 6 Fibred BDI Logics: Completeness Preservation in the Presence of Interaction Axioms. *Lecture Notes in Computer Science*, **2011**, 63-74 0.9
- 5 Towards Real Intelligent Web Exploration. *Lecture Notes in Computer Science*, **2012**, 411-422 0.9
- 4 Diversify Intensification Phases in Local Search for SAT with a New Probability Distribution. *Lecture Notes in Computer Science*, **2013**, 166-177 0.9
- 3 Amino Acids Pattern-Biased Spiral Search for Protein Structure Prediction. *Lecture Notes in Computer Science*, **2014**, 143-156 0.9
- 2 Constraint-Guided Local Search for Single Mixed-Operation Runway. *Lecture Notes in Computer Science*, **2018**, 329-341 0.9
- 1 Tailoring Contact Based Scoring Functions for Protein Structure Prediction. *Lecture Notes in Computer Science*, **2022**, 155-168 0.9