

# Saratha Sathasivam

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

577  
citations

687220

13  
h-index

713332

21  
g-index

88  
all docs

88  
docs citations

88  
times ranked

243  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Discrete Mutation Hopfield Neural Network in Propositional Satisfiability. Mathematics, 2019, 7, 1133.   | 1.1 | 39        |
| 2  | Logic mining in neural network: reverse analysis method. Computing (Vienna/New York), 2011, 91, 119-133.   | 3.2 | 36        |
| 3  | Discrete Hopfield Neural Network in Restricted Maximum k-Satisfiability Logic Programming. Sains Malaysiana, 2018, 47, 1327-1335.  | 0.3 | 34        |
| 4  | Learning Logic Programming in Radial Basis Function Network via Genetic Algorithm. Journal of Applied Sciences, 2012, 12, 840-847.   | 0.1 | 34        |
| 5  | Election Algorithm for Random k Satisfiability in the Hopfield Neural Network. Processes, 2020, 8, 568.  | 1.3 | 33        |
| 6  | Logic Learning in Hopfield Networks. Modern Applied Science, 2009, 2, .  | 0.4 | 31        |
| 7  | Design Optimization of Pin Fin Geometry Using Particle Swarm Optimization Algorithm. PLoS ONE, 2013, 8, e66080.  | 1.1 | 27        |
| 8  | A new hybrid quadratic regression and cascade forward backpropagation neural network. Neurocomputing, 2016, 182, 197-209.  | 3.5 | 24        |
| 9  | Accelerating Activation Function for 3- Satisfiability Logic Programming. International Journal of Intelligent Systems and Applications, 2016, 8, 44-50.                     | 0.9 | 21        |
| 10 | Enhanced Hopfield Network for Pattern Satisfiability Optimization. International Journal of Intelligent Systems and Applications, 2016, 8, 27-33.                            | 0.9 | 19        |
| 11 | Examining the Forecasting Movement of Palm Oil Price Using RBFNN-2SATRA Metaheuristic Algorithms for Logic Mining. IEEE Access, 2021, 9, 22542-22557.                        | 2.6 | 18        |
| 12 | Systematic Boolean Satisfiability Programming in Radial Basis Function Neural Network. Processes, 2020, 8, 214.  | 1.3 | 17        |
| 13 | Hybrid genetic algorithm in the Hopfield network for maximum 2-satisfiability problem. AIP Conference Proceedings, 2017, .   | 0.3 | 14        |
| 14 | Mean Field Theory in Doing Logic Programming Using Hopfield Network. Modern Applied Science, 2015, 10, 154.  | 0.4 | 13        |
| 15 | VLSI Circuit Configuration Using Satisfiability Logic in Hopfield Network. International Journal of Intelligent Systems and Applications, 2016, 8, 22-29.                    | 0.9 | 12        |
| 16 | Genetic Algorithm for Restricted Maximum k-Satisfiability in the Hopfield Network. International Journal of Interactive Multimedia and Artificial Intelligence, 2016, 4, 52. | 1.0 | 12        |
| 17 | Numerical solutions of fuzzy fractional diffusion equations by an implicit finite difference scheme. Neural Computing and Applications, 2019, 31, 4085-4094.                 | 3.2 | 11        |
| 18 | Radial basis function neural network for 2 satisfiability programming. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 18, 459.                     | 0.7 | 11        |

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|----|---|-----|-----------|
| 19 | Robust Artificial Immune System in the Hopfield network for Maximum k-Satisfiability. International Journal of Interactive Multimedia and Artificial Intelligence, 2017, 4, 63.                               | 1.0 | 11        |
| 20 | Learning in the Recurrent Hopfield Network. , 2008, , .   |     | 8         |
| 21 | Predicting the survival of diabetes using neural network. AIP Conference Proceedings, 2017, , .   | 0.3 | 8         |
| 22 | Numerical solutions of fuzzy time fractional advectionâ€diffusion equations in double parametric form of fuzzy number. Mathematical Methods in the Applied Sciences, 2021, 44, 7956-7968.                     | 1.2 | 8         |
| 23 | Boltzmann Machine and Hyperbolic Activation Function in Higher Order Network. Modern Applied Science, 2014, 8, .  | 0.4 | 7         |
| 24 | Design of a modified adaptive neuro fuzzy inference system classifier for medical diagnosis of Pima Indians Diabetes. AIP Conference Proceedings, 2017, , .   | 0.3 | 7         |
| 25 | A compact Crankâ€Nicholson scheme for the numerical solution of fuzzy time fractional diffusion equations. Neural Computing and Applications, 2020, 32, 6405-6412.  | 3.2 | 7         |
| 26 | Artificial Immune System in Doing 2-Satisfiability Based Reverse Analysis Method via a Radial Basis Function Neural Network. Processes, 2020, 8, 1295.  | 1.3 | 7         |
| 27 | Learning Rules Comparison in Neuro-SymbolicIntegration. International Journal of Applied Physics and Mathematics, 2011, , 129-132.  | 0.3 | 7         |
| 28 | 3-satisfiability logic programming approach for cardiovascular diseases diagnosis. AIP Conference Proceedings, 2018, , .  | 0.3 | 6         |
| 29 | Self-Adaptive Single Objective Hybrid Algorithm for Unconstrained and Constrained Test functions: An Application of Optimization Algorithm. Arabian Journal for Science and Engineering, 2019, 44, 3497-3513. | 1.7 | 6         |
| 30 | Satisfiability Logic Analysis Via Radial Basis Function Neural Network with Artificial Bee Colony Algorithm. International Journal of Interactive Multimedia and Artificial Intelligence, 2021, 6, 164.       | 1.0 | 6         |
| 31 | Grey Wolf Optimization algorithm with Discrete Hopfield Neural Network for 3 Satisfiability analysis. Journal of Physics: Conference Series, 2021, 1821, 012038.  | 0.3 | 6         |
| 32 | Reverse analysis in higher order Hopfield network for higher order Horn clauses. Applied Mathematical Sciences, 0, 8, 601-612.  | 0.0 | 6         |
| 33 | Bezier Curves Satisfiability Model in Enhanced Hopfield Network. International Journal of Intelligent Systems and Applications, 2016, 8, 9-17.  | 0.9 | 6         |
| 34 | Activation function comparison in neural-symbolic integration. AIP Conference Proceedings, 2016, , .  | 0.3 | 5         |
| 35 | ENERGY RELAXATION FOR HOPFIELD NETWORK WITH THE NEW LEARNING RULE. , 2009, , .  |     | 4         |
| 36 | Boltzmann machine and reverse analysis method. , 2013, , .  |     | 4         |

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|----|--|-----|-----------|
| 37 | Performance analysis of activation function in higher order logic programming. AIP Conference Proceedings, 2016, , .                                 | 0.3 | 4         |
| 38 | Satisfiability based reverse analysis method in diabetes detection. AIP Conference Proceedings, 2018, , .  | 0.3 | 4         |
| 39 | Acceleration technique for neuro symbolic integration. Applied Mathematical Sciences, 0, 9, 409-417.   | 0.0 | 4         |
| 40 | Satisfiability of logic programming based on radial basis function neural networks. , 2014, , .  |     | 3         |
| 41 | Intelligence system based classification approach for medical disease diagnosis. AIP Conference Proceedings, 2017, , .                               | 0.3 | 3         |
| 42 | Forecasting comparisons using a hybrid ARFIMA and LRNN models. Communications in Statistics Part B: Simulation and Computation, 2018, 47, 2286-2303. | 0.6 | 3         |
| 43 | Artificial immune system algorithm with neural network approach for social media performance metrics. AIP Conference Proceedings, 2018, , .          | 0.3 | 3         |
| 44 | Developing random satisfiability logic programming in Hopfield neural network. AIP Conference Proceedings, 2020, , .                                 | 0.3 | 3         |
| 45 | The effect of logical permutation in 2 satisfiability reverse analysis method. AIP Conference Proceedings, 2020, , .                                 | 0.3 | 3         |
| 46 | Improving Logic Programming in Hopfield Network with Sign Constrained. , 2009, , .   |     | 2         |
| 47 | Developing Agent Based Modeling for Reverse Analysis Method. Research Journal of Applied Sciences, Engineering and Technology, 2013, 6, 4281-4288.   | 0.1 | 2         |
| 48 | Accelerating activation function in higher order logic programming. AIP Conference Proceedings, 2016, , .  | 0.3 | 2         |
| 49 | Forecasting crude oil production using quadratic regression and layer recurrent neural network models. AIP Conference Proceedings, 2016, , .         | 0.3 | 2         |
| 50 | Linear kernel Hopfield neural network approach in horn clause programming. AIP Conference Proceedings, 2018, , .                                     | 0.3 | 2         |
| 51 | Studentsâ€™ performance via satisfiability reverse analysis method with Hopfield Neural Network. AIP Conference Proceedings, 2019, , .               | 0.3 | 2         |
| 52 | Usage Of New Activation Function In Neuro-Symbolic Integration. , 2010, , .  |     | 1         |
| 53 | On the fusion of regression and neural network methods. AIP Conference Proceedings, 2016, , .  | 0.3 | 1         |
| 54 | Comparison of regression analysis and neural network models based on heteroscedasticity. AIP Conference Proceedings, 2018, , .                       | 0.3 | 1         |

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|----|--|-----|-----------|
| 55 | On the fusion of neural network models in the case of heteroscedasticity. AIP Conference Proceedings, 2018, , .  | 0.3 | 1         |
| 56 | Enhanced metaheuristic approach in pattern satisfiability problem. AIP Conference Proceedings, 2018, , .   | 0.3 | 1         |
| 57 | 2 satisfiability logical rule by using ant colony optimization in Hopfield Neural Network. AIP Conference Proceedings, 2019, , .                                   | 0.3 | 1         |
| 58 | 3-satisfiability reverse analysis method with Hopfield neural network for medical data set. AIP Conference Proceedings, 2020, , .                                  | 0.3 | 1         |
| 59 | Commodity price analysis by using logic mining. AIP Conference Proceedings, 2020, , .  | 0.3 | 1         |
| 60 | Neuro-symbolic Performance Comparison. , 2010, , .   |     | 0         |
| 61 | Abduction in Neuro Symbolic Integration. , 2011, , .   |     | 0         |
| 62 | Applying Different Learning Rules in Neuro-Symbolic Integration. Advanced Materials Research, 0, 433-440, 716-720.   | 0.3 | 0         |
| 63 | Computing single step operators of logic programming in radial basis function neural networks. , 2014, , .   |     | 0         |
| 64 | Integration of Boltzmann machine and reverse analysis method. AIP Conference Proceedings, 2015, , .  | 0.3 | 0         |
| 65 | Acceleration of reverse analysis method using hyperbolic activation function. AIP Conference Proceedings, 2015, , .  | 0.3 | 0         |
| 66 | On the fusion of regression and neural network methods. International Journal of Intelligent Systems Technologies and Applications, 2016, 15, 255.                 | 0.2 | 0         |
| 67 | Automated Architecture Selection for Radial Basis Function Neural Networks. Research Journal of Applied Sciences, Engineering and Technology, 2016, 12, 1146-1151. | 0.1 | 0         |
| 68 | Accelerating activation function in higher order logic programming. AIP Conference Proceedings, 2016, , .  | 0.3 | 0         |
| 69 | Artificial bee colony in neuro - Symbolic integration. AIP Conference Proceedings, 2017, , .   | 0.3 | 0         |
| 70 | Artificial immune system algorithm in VLSI circuit configuration. AIP Conference Proceedings, 2017, , .  | 0.3 | 0         |
| 71 | Post optimization paradigm in maximum 3-satisfiability logic programming. AIP Conference Proceedings, 2017, , .  | 0.3 | 0         |
| 72 | On the fusion of tuning parameters of fuzzy rules and neural network. , 2017, , .  |     | 0         |

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|----|---|-----|-----------|
| 73 | Time series forecasting using ERNN and QR based on Bayesian model averaging. AIP Conference Proceedings, 2017, , .  | 0.3 | 0         |
| 74 | Flexible kernels discrete Hopfield neural network. AIP Conference Proceedings, 2018, , .  | 0.3 | 0         |
| 75 | Explicit Solutions of Fuzzy Time Fractional Diffusion Equations in Double Parametric Form of Fuzzy Number. SSRN Electronic Journal, 0, , .                                    | 0.4 | 0         |
| 76 | Maximum 2 satisfiability logical rule in restrictive learning environment. AIP Conference Proceedings, 2018, , .  | 0.3 | 0         |
| 77 | Performance comparison between exhaustive search and imperialist competitive algorithm for 3-satisfiability programming. AIP Conference Proceedings, 2019, , .                | 0.3 | 0         |
| 78 | 2 satisfiability logic programming in radial basis function neural networks. , 2019, , .  |     | 0         |
| 79 | Comparing the logic programming between Hopfield neural network and radial basis function neural network. AIP Conference Proceedings, 2019, , .                               | 0.3 | 0         |
| 80 | Ant colony optimization for 2 satisfiability in restricted neural symbolic integration. AIP Conference Proceedings, 2020, , .   | 0.3 | 0         |
| 81 | k satisfiability programming by using estimation of distribution algorithm in Hopfield neural network. AIP Conference Proceedings, 2020, , .                                  | 0.3 | 0         |
| 82 | Hybrid clonal selection algorithm with Hopfield neural network for 3-satisfiability data mining on Amazon's Employees Resources Access. AIP Conference Proceedings, 2020, , . | 0.3 | 0         |
| 83 | Enhanced imperialist competitive algorithm for 2-satisfiability logic mining in bank marketing data set. AIP Conference Proceedings, 2020, , .                                | 0.3 | 0         |
| 84 | A new artificial immune system algorithm for training the 2 satisfiability radial basis function neural network. AIP Conference Proceedings, 2020, , .                        | 0.3 | 0         |
| 85 | Hybrid ant colony optimization for even-2 satisfiability programming in Hopfield neural network. AIP Conference Proceedings, 2020, , .  | 0.3 | 0         |
| 86 | Information extraction using 2 satisfiability based reverse analysis method in MOBA game. AIP Conference Proceedings, 2020, , .   | 0.3 | 0         |
| 87 | AGENT BASED MODELLING FOR NEW TECHNIQUE IN NEURO SYMBOLIC INTEGRATION. MATTER International Journal of Science and Technology, 2017, 3, 445-454.                              | 0.1 | 0         |