

# Ali A Minai

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2263686/publications.pdf>

Version: 2024-02-01

85  
papers

1,702  
citations

393982

19  
h-index

329751

37  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1514  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | A Comparative Study of Methods for Visualizable Semantic Embedding of Small Text Corpora. , 2021, , .  |     | 5         |
| 2  | Robust Deep Reinforcement Learning for Quadcopter Control. IFAC-PapersOnLine, 2021, 54, 90-95.   | 0.5 | 4         |
| 3  | One Shot Spatial Learning through Replay in a Hippocampus-Inspired Reinforcement Learning Model. , 2020, , .   |     | 1         |
| 4  | A cognitive inspired method for assessing novelty of short-text ideas. , 2020, , .   |     | 6         |
| 5  | One-Shot Recognition of Manufacturing Defects in Steel Surfaces. Procedia Manufacturing, 2020, 48, 1064-1071.  | 1.9 | 37        |
| 6  | A Hierarchical Behavioral Dynamic Approach for Naturally Adaptive Human-Agent Pick-and-Place Interactions. Complexity, 2019, 2019, 1-16.                                 | 0.9 | 8         |
| 7  | Whatâ€™s in a Word? Detecting Partisan Affiliation from Word Use in Congressional Speeches. , 2019, , .  |     | 5         |
| 8  | The Paths We Pick Together. , 2018, , .  |     | 1         |
| 9  | Using Semantic Clustering And Autoencoders For Detecting Novelty In Corpora Of Short Texts. , 2018, , .  |     | 4         |
| 10 | Implicit Learning and Creativity in Human Networks: A Computational Model. Springer Proceedings in Complexity, 2018, , 147-154.  | 0.2 | 2         |
| 11 | Reading the Mediaâ€™s Mind. Springer Proceedings in Complexity, 2018, , 398-405.   | 0.2 | 0         |
| 12 | A Lexical Network Approach for Identifying Suicidal Ideation in Clinical Interview Transcripts. Springer Proceedings in Complexity, 2018, , 165-172.                     | 0.2 | 3         |
| 13 | Self-Organized Circle Formation around an Unknown Target by a Multi-Robot Swarm using a Local Communication Strategy. , 2018, , .  |     | 3         |
| 14 | Mining the Temporal Structure of Thought from Text. Springer Proceedings in Complexity, 2018, , 291-298.   | 0.2 | 2         |
| 15 | Presurgical language localization with visual naming associated ECoG high-frequency gamma modulation in pediatric drug-resistant epilepsy. Epilepsia, 2017, 58, 663-673. | 2.6 | 34        |
| 16 | Memristive device based learning for navigation in robots. Bioinspiration and Biomimetics, 2017, 12, 066011.   | 1.5 | 2         |
| 17 | Feature selection using multiple auto-encoders. , 2017, , .  |     | 3         |
| 18 | PAPAc. , 2017, , .   |     | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | To Pass or Not to Pass: Modeling the Movement and Affordance Dynamics of a Pick and Place Task. <i>Frontiers in Psychology</i> , 2017, 8, 1061.  | 1.1 | 13        |
| 20 | Diagnosing Autism Spectrum Disorder from Brain Resting-State Functional Connectivity Patterns Using a Deep Neural Network with a Novel Feature Selection Method. <i>Frontiers in Neuroscience</i> , 2017, 11, 460. | 1.4 | 152       |
| 21 | Divergent thinking in a neurodynamical model of ideation. , 2016, , .  |     | 3         |
| 22 | Reliable storage and recall of aperiodic spatiotemporal activity patterns using scaffolded attractors. , 2016, , .   |     | 1         |
| 23 | Editorial IEEE Transactions on Neural Networks and Learning Systems 2016 and Beyond. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 1-7.   | 7.2 | 15        |
| 24 | ANSWER: An unsupervised attractor network method for detecting salient words in text corpora. , 2015, , .  |     | 4         |
| 25 | Computational Models of Cognitive and Motor Control. , 2015, , 665-682.  |     | 4         |
| 26 | Inferring causal networks using fuzzy cognitive maps and evolutionary algorithms with application to gene regulatory network reconstruction. <i>Applied Soft Computing Journal</i> , 2015, 37, 667-679.            | 4.1 | 52        |
| 27 | Effect of associative rules on the dynamics of conceptual combination in a neurodynamical model. , 2015, , .   |     | 8         |
| 28 | Chunks of thought: Finding salient semantic structures in texts. , 2014, , .   |     | 12        |
| 29 | Editorial " Special Issue on Autonomous Learning. <i>Neural Networks</i> , 2013, 41, 1-2.  | 3.3 | 0         |
| 30 | A hierarchical model of synergistic motor control. , 2013, , .   |     | 0         |
| 31 | Thinking in prose and poetry: A semantic neural model. , 2013, , .   |     | 15        |
| 32 | Modeling the effect of hint timing on the idea generation process. , 2013, , .   |     | 2         |
| 33 | A modular neural model of motor synergies. <i>Neural Networks</i> , 2012, 32, 96-108.  | 3.3 | 16        |
| 34 | Connectivity and thought: The influence of semantic network structure in a neurodynamical model of thinking. <i>Neural Networks</i> , 2012, 32, 147-158.   | 3.3 | 48        |
| 35 | A year of neural network research: Special Issue on the 2011 International Joint Conference on Neural Networks. <i>Neural Networks</i> , 2012, 32, 1-2.  | 3.3 | 5         |
| 36 | Synergistic organization of action: A computational model. , 2011, , .   |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | A neurodynamical model of context-dependent category learning. , 2011, , .  |     | 3         |
| 38 | Semantic knowledge inference from online news media using an LDA-NLP approach. , 2011, , .  |     | 3         |
| 39 | Connectivity and creativity in semantic neural networks. , 2011, , .  |     | 15        |
| 40 | Investigating the predictability of essential genes across distantly related organisms using an integrative approach. Nucleic Acids Research, 2011, 39, 795-807.        | 6.5 | 120       |
| 41 | A multi-agent model for the co-evolution of ideas and communities. , 2010, , .  |     | 5         |
| 42 | Neurocognitive spotlights: Configuring domains for ideation. , 2010, , .  |     | 6         |
| 43 | A synergistic view of autonomous cognitive systems. , 2010, , .   |     | 8         |
| 44 | Modeling Ideational Creativity in Groups: Connecting Cognitive, Neural, and Computational Approaches. Small Group Research, 2010, 41, 688-724.                          | 1.8 | 33        |
| 45 | Self-Organization of Sensor Networks with Heterogeneous Connectivity. Signals and Communication Technology, 2010, , 39-59.  | 0.4 | 5         |
| 46 | A spiking neural model for the spatial coding of cognitive response sequences. , 2010, , .  |     | 2         |
| 47 | Effects of relevant and irrelevant primes on idea generation: A computational model. , 2009, , .  |     | 19        |
| 48 | A dynamical connectionist model of idea generation. , 2009, , .   |     | 9         |
| 49 | Stable-yet-switchable (SyS) attractor networks. , 2009, , .   |     | 2         |
| 50 | A conceptual neural model of idea generation. , 2009, , .   |     | 12        |
| 51 | On the varying benefit of communication between mobile agents in a decentralized team. , 2009, , .  |     | 0         |
| 52 | Neural dynamics of idea generation and the effects of priming. Neural Networks, 2009, 22, 674-686.  | 3.3 | 50        |
| 53 | Learning Complex Population-Coded Sequences. Lecture Notes in Computer Science, 2009, , 296-305.  | 1.0 | 3         |
| 54 | Multi-UAV Cooperative Search Using an Opportunistic Learning Method. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 716-728. | 0.9 | 82        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Adaptive Dynamic Modularity in a Connectionist Model of Context-Dependent Idea Generation. Neural Networks (IJCNN), International Joint Conference on, 2007, , .  | 0.0 | 10        |
| 56 | Self-Organized Hebbian Inference of Environment Topology by Distributed Sensor Networks. Neural Networks (IJCNN), International Joint Conference on, 2007, , .  | 0.0 | 0         |
| 57 | Latent Attractors: A General Paradigm for Context-Dependent Neural Computation. , 2007, , 135-169.  |     | 3         |
| 58 | Impact of Heterogeneity on Coverage and Broadcast Reachability in Wireless Sensor Networks. Computer Communications and Networks (IC3N), Proceedings of the IEEE International Conference on, 2006, , . | 0.0 | 26        |
| 59 | Balancing search and target response in cooperative unmanned aerial vehicle (UAV) teams. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 571-587.   | 5.5 | 100       |
| 60 | Guest Editorial Special Issue on Temporal Coding for Neural Information Processing. IEEE Transactions on Neural Networks, 2004, 15, 953-956.  | 4.8 | 4         |
| 61 | Temporally Sequenced Intelligent Block-Matching and Motion-Segmentation Using Locally Coupled Networks. IEEE Transactions on Neural Networks, 2004, 15, 1202-1214.                                      | 4.8 | 17        |
| 62 | A computational model of the interaction between external and internal cues for the control of hippocampal place cells. Neurocomputing, 2003, 52-54, 371-379.   | 3.5 | 4         |
| 63 | Phase transition in a swarm algorithm for self-organized construction. Physical Review E, 2003, 68, 046111.   | 0.8 | 12        |
| 64 | Network capacity analysis for latent attractor computation. Network: Computation in Neural Systems, 2003, 14, 273-302.  | 2.2 | 4         |
| 65 | Network capacity analysis for latent attractor computation. Network: Computation in Neural Systems, 2003, 14, 273-302.  | 2.2 | 1         |
| 66 | Decentralized Cooperative Search in UAV's Using Opportunistic Learning. , 2002, , .   |     | 25        |
| 67 | Different Hippocampal Place Cell Maps for Different Environments. , 2002, , 23-40.  |     | 1         |
| 68 | Spatial Processing in the Brain: The Activity of Hippocampal Place Cells. Annual Review of Neuroscience, 2001, 24, 459-486.   | 5.0 | 173       |
| 69 | Efficient associative memory using small-world architecture. Neurocomputing, 2001, 38-40, 489-496.  | 3.5 | 104       |
| 70 | An attractor model for hippocampal place cell hysteresis. Neurocomputing, 2001, 38-40, 1185-1191.   | 3.5 | 4         |
| 71 | A comparison of context-dependent hippocampal place codes in 1-layer and 2-layer recurrent networks. Neurocomputing, 2000, 32-33, 353-358.  | 3.5 | 3         |
| 72 | Latent Attractors: A Model for Context-Dependent Place Representations in the Hippocampus. Neural Computation, 2000, 12, 1009-1043.   | 1.3 | 52        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Synchronization of Randomly Multiplexed Chaotic Systems with Application to Communication. <i>Physical Review Letters</i> , 2000, 85, 5456-5459.  | 2.9 | 84        |
| 74 | Synchronization of chaotic maps through a noisy coupling channel with application to digital communication. <i>Physical Review E</i> , 1999, 59, 312-320.   | 0.8 | 8         |
| 75 | Using chaos to produce synchronized stochastic dynamics in non-homogeneous map arrays with a random scalar coupling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 251, 31-38. | 0.9 | 2         |
| 76 | Synchronizing multiple chaotic maps with a randomized scalar coupling. <i>Physica D: Nonlinear Phenomena</i> , 1999, 125, 241-259.  | 1.3 | 5         |
| 77 | A latent attractors model of context selection in the dentate gyrus's hilus system. <i>Neurocomputing</i> , 1999, 26-27, 671-676.   | 3.5 | 10        |
| 78 | Stimulus-induced bifurcations in discrete-time neural oscillators. <i>Biological Cybernetics</i> , 1998, 79, 87-96.   | 0.6 | 13        |
| 79 | Communicating with noise: How chaos and noise combine to generate secure encryption keys. <i>Chaos</i> , 1998, 8, 621-628.  | 1.0 | 25        |
| 80 | Chaos-induced synchronization in discrete-time oscillators driven by a random input. <i>Physical Review E</i> , 1998, 57, 1559-1562.  | 0.8 | 14        |
| 81 | Covariance Learning of Correlated Patterns in Competitive Networks. <i>Neural Computation</i> , 1997, 9, 667-681.   | 1.3 | 13        |
| 82 | Setting the Activity Level in Sparse Random Networks. <i>Neural Computation</i> , 1994, 6, 85-99.   | 1.3 | 38        |
| 83 | Perturbation response in feedforward networks. <i>Neural Networks</i> , 1994, 7, 783-796.   | 3.3 | 10        |
| 84 | The dynamics of sparse random networks. <i>Biological Cybernetics</i> , 1993, 70, 177-187.  | 0.6 | 38        |
| 85 | On the derivatives of the sigmoid. <i>Neural Networks</i> , 1993, 6, 845-853.   | 3.3 | 38        |