

## References

1. E. M. Royer and C. E. Perkins, "Multicast Operation of the Ad hoc On-Demand Distance Vector Routing Protocol," *Proceedings of the ACM/IEEE MobiCom'99*, Seattle, WA, 1999, pp. 207-218.
2. C. E. Perkins and E. M. Royer, "Ad-hoc On-Demand Distance Vector Routing," *Proceedings of the IEEE WMCSA'99*, New Orleans, LA, 1999 , pp. 90- 100.
3. Iwata, C. Chiang, G. Pei, M. Gerla, and T. Chen, "Scalable routing strategies for ad-hoc wireless networks," *IEEE Selected Areas of Communication*, vol. 17, no. 8, pp. 1369–1379, 1999.  
 University of Moratuwa, Sri Lanka  
Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)
4. C.E. Perkins and P. Bhagwat, Highly Dynamic Destination-Sequenced Distance-Vector routing (DSDV) for mobile computers, *In Proceedings of the SIGCOMM'94*, 1994.
5. Chalermek Intanagonwiwat, Ramesh Govindan and Deborah Estrin, Directed Diffusion: A Scalable and Robust Communication Paradigm for Sensor Networks, *In Proceedings of the Sixth Annual International Conference on Mobile Computing and Networks (MobiCOM 2000)* Boston, Massachusetts, 2000.
6. Yan Yu, Ramesh Govindan and Deborah Estrin, Geographical and Energy Aware Routing: A Recursive Data Dissemination Protocol for Wireless Sensor Networks. UCLA Computer Science Department Technical Report UCLA/CSD-TR-01-0023, 2001.

7. Brad Karp and H. T. Kung. GPSR: Greedy perimeter stateless routing for wireless networks. In *Proceedings of the ACM/IEEE International Conference on Mobile Computing and Networking*, Boston, Mass., USA, 2000, pp. 243–254
8. D. Subramanian, P. Druschel, J. Chen. Ants and Reinforcement Learning: A Case Study in Routing in Dynamic Data Networks, *In Proceedings of IJCAI-97*, 1997.
9. M. Lin, K. Marzullo, S. Masini. Gossip versus deterministic flooding: Low message overhead and high reliability for broadcasting on small networks. UCSD Technical Report TR CS99-0637, 1999.
10. M. Dorigo, V. Maniezzo, A. Colomi. “The Ant System: Optimization by a colony of cooperating agents”, *IEEE Transactions on Systems, Man, and Cybernetics-Part B*, Vol.26, №.1, 1996, pp.1-13
11. Broch-Joch, Maltz David A. “A performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols”, *Forth Annual ACM/IEEE International Conference on Mobile Computing and Networking*, 1998.
12. Perkins Charles E., Bhagwat Pravin: Highly Dynamic Destination-Sequenced Distance-Vector Routing (DSDV) for Mobile Computers, *London England UK, SIGCOMM 94-8/94*, 1994
13. Vincent D. Park and M. Scott Corson, A performance comparison of TORAand Ideal Link State routing, In *Proceedings of IEEE Symposium on Computers and Communication '98*, 1998.
14. David Johnson, “Routing in ad hoc networks of mobile hosts”, *In Proceedings of the IEEE Workshop on Mobile Computing Systems and Applications*, 1994, pp. 158-163.

15. Wendi Heinzelman, Anantha Chandrakasan, and Hari Balakrishnan, Energy-Efficient Communication Protocols for Wireless Micro sensor Networks, *Proceedings Hawaaian international Conf. on Systems Science*, 2000.
16. Ya Xu, John Heidemann and Deborah Estrin, “Geography-informed Energy Conservation for Ad-hoc Routing”, *In Proceedings of the Seventh Annual ACM/IEEE International Conference on Mobile Computing and Networking (ACM MobiCom)*, Rome, Italy, 2004
17. Abidi, G. Pottie, W. Kaiser, “Power- Conscious Design of Wireless Circuits and Systems”, *Proceedings of the IEEE*, vol. 88, no. 10, 2000, pp. 1528- 45.
18. Brad Karp and H. T. Kung, “GPSR: Greedy perimeter stateless routing for wireless networks”. *In Proceedings of the ACM/IEEE International Conference on Mobile Computing and Networking*. Boston, USA, 2000, pages 243–254.  University of Moratuwa, Sri Lanka. Electronic Theses & Dissertations. www.lib.mrt.ac.lk
19. Thomas Cormen, Charles Leiserson, Ronald Rivest, and Clifford Stein, *Introduction to Algorithms*, 2<sup>nd</sup> ed., MIT Press and McGraw-Hill, 2001.
20. Stuart Russell, Peter Norvig, *Artificial Intelligence A Modern Approach*, 3<sup>rd</sup> ed., Pearson Education Press, 2002.
21. Larry Peterson, Bruce Davie, *Computer Networks*, 2<sup>nd</sup> ed., Morgan Kaufmann Press, 2002.
22. Andrews Tanenbaum, *Computer Networks*, 4<sup>th</sup> ed., Prentice Hall Inc., 2005.
23. M. Dorigo, “Optimization, learning and natural algorithms,” Ph.D. dissertation, Dipartimento di Elettronica, Politecnico di Milano, Italy, 1992.

24. L. M. Gambardella and M. Dorigo, “Ant-Q: A reinforcement learning approach to the traveling salesman problem,” *In Proceedings of the Twelfth International Conference on Machine Learning (ML-95)*, 1995, pp. 252–260.
25. M. Dorigo and L. M. Gambardella, “Ant Colony System: A cooperative learning approach to the traveling salesman problem”, *IEEE Transactions on Evolutionary Computation*, vol. 1, no. 1, pp. 53–66, 1997.
26. C. Blum and M. Dorigo, “The hyper-cube framework for ant colony optimization,” *IEEE Transactions on Systems, Man, and Cybernetics Part B*, vol. 34, no. 2, pp. 1161–1172, 2004.
27. M. Dorigo and G. Caro, *The Ant Colony Optimization meta heuristic*, in *New Ideas in Optimization*, D. Corne et al., Eds.. McGraw Hill, London, UK, 1999, pp. 11–32.  
 University of Moratuwa, Sri Lanka  
 Electronic Theses & Dissertations  
[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)
28. M. Dorigo, G. Di Caro, and L. M. Gambardella, “Ant algorithms for discrete optimization,” *Artificial Life*, vol. 5, no. 2, pp. 137–172, 1999.
29. S. Kirkpatrick, C. D. Gelatt Jr., and M. P. Vecchi, “Optimization by simulated annealing,” *Science*, vol. 220, pp. 671–680, 1983.
30. F. Glover, Tabu search – part I and part II *ORSA Journal on Computing*, vol. 1, no. 3, pp. 190–206, 1989.
31. J. Holland, *Adaptation in Natural and Artificial Systems*. Ann Arbor University of Michigan Press, 1975.
32. T. Stutzle and M. Dorigo, “A short convergence proof for a class of ACO algorithms,” *IEEE Transactions on Evolutionary Computation*, vol. 6, no. 4, pp. 358–365, 2002.

33. M. Birattari, G. Di Caro, and M. Dorigo, Toward the formal foundation of ant programming, in *Ant Algorithms, Proceedings of ANTS 2002 Third International Workshop*, ser. LNCS, M. Dorigo et al., Eds., vol. 2463. Springer Verlag, 2002, pp. 188–201.
34. N. Meuleau and M. Dorigo, “Ant colony optimization and stochastic gradient descent,” *Artificial Life*, vol. 8, no. 2, pp. 103–121, 2002.
35. C. Blum, *Theoretical and Practical Aspects of Ant Colony Optimization*, ser. Dissertations in Artificial Intelligence. Akademische Verlagsgesellschaft Aka GmbH, Berlin, Germany, 2004,
36. C. Blum and M. Dorigo, “Search bias in ant colony optimization: On the role of competition-balanced systems,” *IEEE Transactions on Evolutionary Computation*, vol. 9, no. 2, pp. 159–174, 2005.
-  University of Moratuwa, Sri Lanka.  
 37. C. Blum, M. Sampels, and M. Zlochin, On a particularity in model based search, in *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2002)*, W. B. Langdon et al., Ed. Morgan Kaufmann Publishers, 2002, pp. 35–42.
38. D. Merkle and M. Middendorf, “Modelling the dynamics of ant colony optimization algorithms,” *Evolutionary Computation*, vol. 10, no. 3, pp. 235–262, 2002.
39. T. Stutzle and H. H. Hoos, The MAX-MIN Ant System and local search for the traveling salesman problem, in *Proceedings of the 1997 IEEE International Conference on Evolutionary Computation (ICEC'97)*, T. Back et al., Eds. IEEE Press, Piscataway, NJ, 1997, pp. 309–314.
40. L. M. Gambardella, E. D. Taillard, and G. Agazzi, MACS-VRPTW: A multiple ant colony system for vehicle routing problems with time windows, in *New Ideas in Optimization*, D. Corne et al., Eds. McGraw Hill, London, UK, 1999, pp. 63–76.

41. M. Reimann, K. Doerner, and F. Hartl, D-ants: Savings based ants divide and conquer the vehicle routing problems, *Computers & Operations Research*, vol. 31, no. 4, pp. 563–591, 2004.
42. L. M. Gambardella and M. Dorigo, “Ant Colony System hybridized with a new local search for the sequential ordering problem,” *INFORMS Journal on Computing*, vol. 12, no. 3, pp. 237–255, 2000.
43. K. Socha, M. Sampels, and M. Manfrin, Ant algorithms for the university course timetabling problem with regard to the state of the art, in *Applications of Evolutionary Computing, Proceedings of EvoWorkshops 2003*, ser. LNCS, G. R. Raidl et al., Eds., vol. 2611. Springer Verlag, 2003, pp. 334–345.
44. D. Costa and A. Hertz, “Ants can colour graphs,” *Journal of the Operational Research Society*, vol. 48, pp. 295–305, 1997.  
 University of Moratuwa, Sri Lanka  
Electronic Theses & Dissertations  
[www.mto.mrt.ac.lk](http://www.mto.mrt.ac.lk)
45. D. Merkle, M. Middendorf, and H. Schmeck, “Ant colony optimization for resource-constrained project scheduling,” *IEEE Transactions on Evolutionary Computation*, vol. 6, no. 4, pp. 333–346, 2002.
46. M. L. den Besten, T. Stützle, and M. Dorigo, Ant colony optimization for the total weighted tardiness problem, in *Proceedings of PPSN-VI*, Springer Verlag, 2000, pp. 611–620.
47. D. Merkle and M. Middendorf, Ant colony optimization with global pheromone evaluation for scheduling a single machine, *Applied Intelligence*, vol. 18, no. 1, pp. 105–111, 2003.
48. C. Blum, “Beam-ACO—Hybridizing ant colony optimization with beam search: An application to open shop scheduling,” *Computers & Operations Research*, vol. 32, no. 6, pp. 1565–1591, 2005.

49. L. Lessing, I. Dumitrescu, and T. Stutzle, “A comparison between ACO algorithms for the set covering problem,” in *ANTS’2004, Fourth International Workshop on Ant Algorithms and Swarm Intelligence*, ser. LNCS, M. Dorigo et al., Eds., vol. 3172. Springer Verlag, 2004, pp. 1–12.
50. C. Blum and M. Blesa, “New meta heuristic approaches for the edge-weighted k-cardinality tree problem,” *Computers & Operations Research*, vol. 32, no. 6, pp. 1355–1377, 2005.
51. G. Leguizamón and Z. Michalewicz, “A new version of Ant System for subset problems,” in Proceedings of CEC’99. IEEE Press, Piscataway, NJ, 1999, pp. 1459–1464.
52. S. Fenet and C. Solnon, Searching for maximum cliques with ant colony optimization, in Applications of Evolutionary Computing, *Proceedings of EvoWorkshops 2003*, ser. LNCS, G. R. Raidl et al., Eds., vol. 2611. Springer Verlag, 2003, pp. 236–245.
53. R. S. Parpinelli, H. S. Lopes, and A. A. Freitas, Data mining with an ant colony optimization algorithm, *IEEE Transactions on Evolutionary Computation*, vol. 6, no. 4, pp. 321–332, 2002.
54. D. Martens, M. Backer, R. Haesen, B. Baesens, C. Mues, and J. Vanthienen, Ant-based approach to the knowledge fusion problem, in *Ant Colony Optimization and Swarm Intelligence*, 5th International Workshop, ANTS 2006, ser. LNCS, M. Dorigo et al., Eds., vol. 4150, Springer Verlag, 2006, pp. 84–95.
55. L. Campos, J. M. Luna, J. Gamez, and J. Puerta, Ant colony optimization for learning Bayesian networks, *International Journal of Approximate Reasoning*, vol. 31, no. 3, pp. 291–311, 2002.



University of Moratuwa, Sri Lanka

Electronic Theses & Dissertations

[www.lib.mrt.ac.lk](http://www.lib.mrt.ac.lk)

56. R. Schoonderwoerd, O. Holland, J. Bruton, and L. Rothkrantz, Antbased load balancing in telecommunications networks, *Adaptive Behavior*, vol. 5, no. 2, pp. 169–207, 1996.
57. Joe Albowicz, Alvin Chen, and Lixia Zhang, “Recursive position estimation in sensor networks,” *In Proceedings of the International Conference on Network protocols (ICNP '01)*, pp. 35–41, Riverside, California, IEEE Computer Society, 2001
58. Alberto Cerpa and Deborah Estrin, “ASCENT: Adaptive self-configuring network topologies.” *In Proceedings of the Twenty-First Annual Joint Conference of the IEEE Computer and Communications Societies (IEEE Infocom 2002)*, volume 3, pp. 1278–1287, New York, New York, USA, 2002.
59. Jeremy Elson and Deborah Estrin. “Randomized, ephemeral transaction identifiers in wireless sensor networks.” *In Proceedings of International Conference on Distributed Computing Systems (ICDCS-21)*, pp. 459–468, Phoenix, Arizona, USA, IEEE Computer Society, April 2001.
60. John Heidemann, Fabio Silva, Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin, and Deepak Ganesan, “Building efficient wireless sensor networks with low-level naming.” *In Proceedings of the Symposium on Operating Systems Principles*, pp. 146–159, Chateau Lake Louise, Banff, Alberta, Canada, 2001.

