

Prof. Mohan Krishnamoorthy

EMPLOYMENT HISTORY

- Jan 2009—Mar 2010
CEO, IITB-Monash Research Academy, Mumbai, India (www.iitbmonash.org)
- Jan 2009—Mar 2010
Acting CEO, IITB-Monash Research Academy, Mumbai, India,
- Jun 2008—Mar 2010
Professor and Associate Dean Research, Faculty of Engineering, Monash University, Australia
- Jul 2007—Jun2008
Director of Business Development and Strategy
IITB-Monash Research Academy
- Jan 2001—Jun 2007:
Science and Industry Manager (SIM) and Member of the Divisional Executive
CSIRO Mathematical and Information Sciences.
- Dec 1998—Jan 2001:
Group Leader and Senior Research Scientist in Operations Research,
CSIRO Mathematical and Information Sciences.
- Jan 1992—Jan1998:
Research Scientist in Operations Research, CSIRO Mathematical and
Information Sciences.
- Dec 1990—Dec 1991:
Lecturer in Operations Research, Institute of Mathematics and Statistics,
University of Kent, Canterbury, UK



EDUCATION

- Sept 1986—Dec 1990:
PhD in Operations Research, Imperial College, London, UK.
Topic: Contributions to the solution of the travelling salesman problem
Thesis Supervisor: Professor Nicos Christofides
- Aug 1985—Jun 1986:
MSc, DIC in Management Science, Imperial College, London, UK
- Jun 1983—May 1985:
MSc, Operational Research, Delhi University, India
- Jun 1980—May 1983:
BSc, Maths-Physics-Chemistry, Bangalore University, India.

MEMBERSHIPS AND COMMITTEES

- Editorial Board of ANZIAM Journal. (2003 - to date).
- Associate Editor: International Journal of Systems Assurance Engineering and Management (from 2010)
- Advisory Board of the Centre for Industrial and Applied Mathematics (CIAM), University of South Australia,

Adelaide, Australia.

- Former Committee Member, Australian Society of Operations Research, Melbourne Chapter.

PUBLICATIONS LIST

Books and Book Chapters:

1. A.T. Ernst, H. Jiang, and M. Krishnamoorthy, 2006. A New Lagrangian heuristic for the task allocation problem, Chapter in *Industrial Mathematics*, Eds. Mohan Joshi, Amiya S. Pani, Sanjeev V. Sabnis, Narosa Publications, New Delhi, 2006.
2. H. Jiang, M. Krishnamoorthy and D. Sier, (Editors), “*Staff Scheduling and Rostering: Theory and Applications*”, Special Issue of *Annals of Operations Research*, Volume 127, Issue 1-4 (2004).
3. H. Jiang, M. Krishnamoorthy and D. Sier, (Editors), “*Staff Scheduling and Rostering: Theory and Applications*”, Special Issue of *Annals of Operations Research*, Volume 128, Issue 1-4 (2004).
4. J. F. Campbell, A. T. Ernst and M. Krishnamoorthy, “Hub Location Problems”, Chapter in *Facility Location: Applications and Theory*, (edited by H. Hamacher and Z. Drezner), pp 373-408, Springer, Berlin, 2002.
5. M. Krishnamoorthy and A. T. Ernst, “The personnel task scheduling problem”, Chapter in *Optimization Methods and Applications* (edited by Xiaoqi Yang, Kok Lay Teo and Lou Caccetta), pp 343-367, Kluwer Academic Publications, 2001.
6. N. Boland, M. Krishnamoorthy and P. Stuckey, Editors “*Operations research and constraint programming in the Asia Pacific region*”, Special Issue of *Annals of Operations Research*, Volume 108 (2001).

Manuscripts in Preparation (or submitted) with [ERA ranking, impact-factor, citations and doi as on 1 Dec 2010]:

7. Andreas Ernst, Houyuan Jiang, Mohan Krishnamoorthy, Reformulations and Computational Results for Uncapacitated Single and Multiple Allocation Hub Covering Problems (submitted to *Mathematical Methods of Operations Research*, 2010) [B, IF=2.1; citations=0; doi = NA]
8. Dunstall. S., A. T. Ernst, H. Jiang, P. Kilby, M. Krishnamoorthy, “Locomotive rostering with multiple classes and a central depot”, *Journal of the Operational Research Society*, (submitted) 2010 [A; IF=1.2; citations=0; doi=NA].
9. Mohan Krishnamoorthy, Andreas Ernst and Davaa Baatar, Algorithms for Large Scale Shift Minimisation Personnel Task Scheduling Problems, *European Journal of Operational Research* (submitted to EJOR, 2010). [A, IF=2.093; citations=0; doi = NA]
10. Davaa Baatar, Mohan Krishnamoorthy and Andreas Ernst, A triplet-based branch-and-bound algorithm for the shift minimisation personnel task scheduling problem, *Computers and Operations Research* (submitted to *Computers and Operations Research*, 2010). [A, IF=2.116; citations=0; doi = NA]

11. Goutam Sen, Mohan Krishnamoorthy, Narayan Rangaraj, Vishnu Narayan, David Abramson, Data Location Problems in Complex Information Networks: A Literature Review, *European Journal of Operational Research* (submitted to *Computers and OR*, 2010). [A, IF=2.093; citations=0; doi = NA]
12. M. Sasaki, J. F. Campbell, M. Krishnamoorthy and A. T. Ernst, “Designing Hub and Spoke Transportation Systems for a Competitive Environment, *European Journal of Operational Research*, 2009 (submitted to *EJOR*, 2009). [A, IF=2.093; citations=0; doi = NA]

Papers in Refereed Journals with [ERA ranking, impact-factor, citations and doi as on 1 Dec 2010]:

13. A. T Ernst, M. Horn, P. Kilby, M. Krishnamoorthy, Dynamic Scheduling of Recreational Rental Vehicles with Revenue Management Extensions, *Journal of the Operational Research Society*, (2010) 61, 1133–1143. [A, IF=2.093; citations=1; doi = 10.1057/jors.2009.78]
14. Meyer, T., A.T. Ernst, M. Krishnamoorthy, A 2-Phase Algorithm for Solving the Single Allocation p-Hub Center Problem, *Computers and Operations Research*, Volume 36, Issue 12, December 2009, Pages 3143-3151. [A, IF=2.116; citations=6; doi = 10.1016/j.cor.2008.07.011]
15. Ernst, A., M Krishnamoorthy, D Sier and L Marquez (2008) Solving Regional Infrastructure Bottlenecks: Rail Allocation Policies for a Coal Terminal, *Australasian Journal of Regional Studies*, Vol. 14, No. 2, pp. 117-194. [B, IF=1.109; citations=0; doi = NA]
16. Ernst, A.T., H. Hamacher, H. Jiang, M. Krishnamoorthy and G. Woeginger, Uncapacitated Single and Multiple Allocation p-Hub Center Problems, *Computers and Operations Research*, Volume 36, Issue 7, July 2009, Pages 2230-2241. [A, IF=2.116; citations=26; doi = 10.1016/j.cor.2008.08.021]
17. A. T. Ernst, M. E. Horn, M. Krishnamoorthy, P. Kilby, Static and Dynamic Order Scheduling for Recreational Rental Vehicles at Tourism Holdings Limited, *Interfaces*, 37(4), pp 334-341, 2007. [B, IF= **0.593**; citations=2; doi = **10.1287/inte.1060.0265**]
18. Ernst, A.T., H. Jiang and M. Krishnamoorthy (2006) Exact Solutions to Task Allocation Problems, *Management Science*, Vol.52, No.10, pp. 1634-1646. [A*, IF= **2.354**; citations=8; doi = **10.1287/mnsc.1060.0578**]
19. J. Campbell, A. Ernst and M. Krishnamoorthy, “Hub arc location problems: Part I – Introduction and results”, *Management Science*, Vol 51, 10, 2005, pp 1540-1555. [A*, IF= **2.354**; citations=37; doi = **10.1287/mnsc.1050.0406**]
20. J. Campbell, A. Ernst and M. Krishnamoorthy, “Hub arc location problems: Part II – Formulations and optimal algorithms”, *Management Science*, Vol 51, 10, 2005, pp 1556-1571. [A*, IF= **2.354**; citations=30; doi = **10.1287/mnsc.1050.0407**]

21. Ernst, A.T., H. Jiang, M. Krishnamoorthy and D. Sier (2004) Staff Scheduling and Rostering: A review of applications, methods and models, *European Journal of Operational Research*, Vol.153, No.1, pp. 3-27. [A, IF=2.093; citations=248; doi = 10.1016/S0377-2217(03)00095-X]
22. J. E. Beasley, M. Krishnamoorthy, D. Abramson and Y. Sharaiha, "Displacement Problem and Dynamically scheduling aircraft landings", *J. Operational Research Society*, 55 (2004) 54-64. [A, IF=1.009; citations=34; doi = 10.1057/palgrave.jors.2601650]
23. Simon Dunstall, Mark E.T. Horn, Mohan Krishnamoorthy, Phil Kilby, Bowie Owens, David Sier, Sylvie Thiebaux, An automated itinerary planning system for holiday travel, Submitted to *Information Technology & Tourism, 'Travel Recommender Systems*, 6(3), (a special issue on 'Travel Recommender Systems' edited by Francesco Ricci and Joaquin Delgado), 2004. [B, IF=NA; citations=10; doi = NA]
24. N. Boland, M. Krishnamoorthy, A. Ernst and J. Ebery, "Preprocessing and cutting for multiple allocation hub location problems", *European Journal of Operational Research*, 155, 3, 638-653, 2004. [A, IF=2.093; citations=48; doi = 10.1016/S0377-2217(03)00072-9]
25. Ernst, A.T., H. Jiang, M. Krishnamoorthy, B. Owens and D. Sier (2004) An Annotated Bibliography of Personnel Scheduling and Rostering, *Annals of OR*, Vol.127, pp. 21-144. [B, IF=0.961; citations=111; doi = 10.1023/B:ANOR.0000019087.46656.e2]
26. S. Kethers, M. Krishnamoorthy, A. McLean, D. Sier, Anne-Marie Vercoustre, R. Wilkinson, Towards team-based delivery of patient-centred health care, *IT in Regional Health*, 2003.
27. J. F. Campbell, G. Stiehr, A. T. Ernst and M. Krishnamoorthy, "Solving hub arc problems on a cluster of workstations", *Parallel Computing*, 29 (2003), 555—574. [A, IF=1.125; citations=10; doi = 10.1016/S0167-8191(03)00042-5]
28. Ernst, A.T., H. Jiang, M. Krishnamoorthy, H. Nott and D. Sier (2001) An integrated optimisation model for train crew management, *Annals of OR*, Vol.108, pp. 211--224. [B, IF=0.961; citations=19; doi = 10.1023/A:1016019314196]
29. Ernst, A.T., H. Jiang, M. Krishnamoorthy, H. Nott and D. Sier (2001) Rail crew scheduling and rostering optimisation algorithms, *Computer-Aided Scheduling of Public Transport*, S. Voss and J.R. Daduna (Eds.), Springer, Vol.505, pp. 53-72. [B, IF=NA; citations=11; doi = NA]
30. M. Krishnamoorthy, A. Ernst and Y. M. Sharaiha, "Comparisons of algorithms for the Degree Constrained Minimum Spanning Tree", *Journal of Heuristics*, 7, 587-611, 2001. [IF=1.264, citations=38, doi= 10.1023/A:1011977126230]
31. J. E. Beasley, M. Krishnamoorthy, D. Abramson and Y. Sharaiha, "Scheduling Aircraft Landings: The Static Case", *Transportation Science*, vol 34, no 2, pp 180-197, May 2000. [A, IF= **1.534**; citations=109; doi = 10.1287/trsc.34.2.180.12302]

32. J. Ebery, M. Krishnamoorthy, A. Ernst and N. Boland, "The Capacitated Multiple Allocation Hub location problem: Formulations and Algorithms", *EJOR*, 120, 3 (2000) 614-631. [A, IF=2.093; citations=77; doi = 10.1016/S0377-2217(98)00395-6]
33. A. Ernst and M. Krishnamoorthy, "Solution Algorithms for the Capacitated Single Allocation Hub Location Problem". *Annals of Operations Research*, 86, pp 141-159, 1999. [B, IF=0.961; citations=92; doi = 10.1023/A:1018994432663]
34. A. Ernst, M. Krishnamoorthy and R. Storer, "Heuristic and exact algorithms for scheduling aircraft landings", *Networks*, 34, 229-241, 1999. [A, IF=1.610; citations=45; doi = 10.1002/(SICI)1097-0037(199910)34-0037(199910)34]
35. Ernst, A.T., M. Krishnamoorthy, H. Nott and D. Sier (1999) Review of MicroSaint, *OR/MS today*, April 1999, pp. 58-62.
36. D. Abramson, M. Krishnamoorthy and H. Dang, "An empirical analysis of simulated annealing cooling schedules for solving the timetabling problem". *Asia Pacific Journal of Operations Research*, 16, pp 1-22, 1999.
37. A. Ernst and M. Krishnamoorthy, "An Exact Solution Approach based on Shortest-Paths for p-hub Median Problems", *INFORMS Journal on Computing*, 10(2), pp 149-162, 1998. [A, IF= **1.041**; citations=56; doi = 10.1287/ijoc.10.2.149]
38. K. Smith, M. Palaniswami and M. Krishnamoorthy, "Neural Techniques for Combinatorial Optimization with Applications", *IEEE Transactions on Neural Networks*, 9(6), pp 1301-1318, November 1998. [A*, IF=1.939; citations=78; doi = 10.1109/72.728380]
39. A. Ernst and M. Krishnamoorthy, "Exact and Heuristic Algorithms for the Uncapacitated Multiple Allocation p-Hub Median Problem", *European J of Operations Research*, 104, pp 100--112, 1998. [A, IF=2.093; citations=105; doi = 10.1016/S0377-2217(96)00340-2]
40. D. Dowling, M. Krishnamoorthy, H. MacKenzie and D. Sier, "Staff Rostering at a Large International Airport". *Annals of Operations Research (Spl Issue on Systems for Models and Models for Systems)*, 72, pp 125--147, 1997. [A, IF=0.961; citations=22; doi = 10.1023/A:1018992120116]
41. M. Krishnamoorthy, "Software solutions can banish the rostering nightmares", *HR Monthly*, August 1997, 34--35.
42. K. Smith, M. Palaniswami and M. Krishnamoorthy, "Traditional Heuristic versus Hopfield Neural Network Approaches to a Car Sequencing Problem", *EJOR (Feature Issue on Neural Networks and Operations Research/Management Science)*, 93(2), pp 300--316, September 1996. [A, IF=2.093; citations=32; doi = 10.1016/0377-2217(96)00040-9]
43. K. Smith, M. Palaniswami and M. Krishnamoorthy, "A Hybrid Neural Approach to Combinatorial Optimisation", *Computers and Operations Research (Special Issue on Artificial Intelligence, Evolutionary Programming and Operations Research)*, 23(6), pp 597--610, 1996. [A, IF=2.116; citations=37; doi = 10.1016/0305-0548(95)00064-X]

44. A. Ernst and M. Krishnamoorthy, "Efficient Algorithms for the Uncapacitated Single Allocation p-Hub median Problem", *Locations Science (Special Issue on Hub Location)*, 4(3), pp 139--154, October 1996. [A, IF=2.116; citations=148; doi = 10.1016/S0966-8349(96)00011-3]
45. K. Smith, M. Krishnamoorthy and M. Palaniswami, "Neural versus Traditional Approaches to the Location of Interacting Hub Facilities", *Locations Science (Special Issue on Hub Location)*, 4(3), pp 155--171, October 1996. [A, IF=2.116; citations=46; doi = NA]
46. G. Craig, M. Krishnamoorthy and M. Palaniswami, "Comparison of heuristic algorithms for the degree constrained minimum spanning tree", *Journal of Heuristics*, Volume 7, Number 6, 587-611. [A, IF=1.264; citations=73; doi = 10.1023/A:1011977126230]
47. D. Dowling, M. Krishnamoorthy, H. MacKenzie and D. Sier, "Staff Rostering at a Large International Airport", *ASOR Bulletin*, 15(1), March 1996.
48. D. Abramson and H. Dang and M. Krishnamoorthy, "A comparison of two methods for solving 0--1 integer programs using a general purpose simulated annealing algorithm", *Annals of OR*, 63, pp 129--150, 1996. [B, IF=0.961; citations=26; doi = 10.1007/BF02601642]
49. N. G. Barton, P. W. Cleary, J. Ha, M. Krishnamoorthy, J. R. Mooney and A. N. Stokes, "Industrial Case Studies at the Interface Between Engineering and Applied Mathematics", In *The Role of Mathematics in Modern Engineering*, A. K. Easton, and J. M. Steiner (eds.), pp 23--40, Studentlitteratur, Lund, Sweden, 1996.
50. J van der Touw and M. Krishnamoorthy, "Estimating the viability of an instant car pooling system", *ASOR Bulletin*, 13(2), June 1994.

Plenary Talks at Conferences

51. Optimisation Problems in Air Traffic Management and Airport Terminal Management, AERODROME INDIA 2005, December 2005, Bangalore, India.
52. "ORPIM: OR Practitioners' Impact Mindset", ASOR International Workshop, Dec 6-7 2004, Melbourne, Australia.
53. Simon Dunstall, Andreas Ernst, Russell Johnstone, Mohan Krishnamoorthy, "Collaborative planning for grape logistics and batching", *Colloquia on Logistics and manipulating viticultural input for sustainability*, Twelfth Australian Wine Industry Technical Conference, Monday, 26 July 2004, Melbourne, Australia.
54. "Hub Location: The state-of-the-art and future challenges", International Workshop on Urban Operations Research, Seto, Nagoyam Japan, November 27-29, 2003.
55. "Consulting in and Commercialisation of Operations Research: Challenges and Opportunities", 16th National Conference of the Australian Society of Operations Research, 24-26 September 2001.

Papers in Conference Proceedings

56. M. Sasaki, J. F. Campbell, M. Krishnamoorthy and A. T. Ernst, "Competitive Location Modeling for Hub-and-Spoke Transportation Systems", 23rd EURO Conference on Operational Research, 2009, Bonn, July 5-8 2009.
57. M. Sasaki, J. F. Campbell, M. Krishnamoorthy and A. T. Ernst, "Designing Hub and Spoke Transportation Systems for a Competitive Environment, International Conference on Industrial Engineering and Systems Management, 2009, Montreal, Canada, May 13-15 2009.
58. Simon Dunstall, Guy Eitzen, Andreas Ernst, Richard Jarrett, Russell Johnstone, Mohan Krishnamoorthy, Bowie Owens, Geoff Robinson and Rene Weiskircher, "Collaborating to Compete", Proceedings Australian Society of Viticulture and Oenology Seminar, Adelaide, Australia, 2006.
59. S. Dunstall¹, A.T. Ernst, R.S. Johnstone, M. Krishnamoorthy, Collaborative planning for grape logistics and batching, AWITC Proceedings, Melbourne 2004.
60. A. Ernst, H. Hamacher, H. Jiang, M. Krishnamoorthy and G. Woeginger (2001), "Formulations, complexity and heuristic algorithms for hub center problems", Proceedings of the 16th National Conference of the Australian Society of Operations Research, 24-26 September 2001, Adelaide, Australia.
61. A. Ernst, H. Jiang, M. Krishnamoorthy (2001), "Mathematical programming approaches for solving task allocation problems", Proceedings of the 16th National Conference of the Australian Society of Operations Research, 24-26 September 2001, Adelaide, Australia.
62. S. Dunstall, A. Ernst, H. Jiang, P. Kilby, M. Krishnamoorthy, "Locomotive rostering with multiple classes and a central depot", Proceedings of the 16th National Conference of the Australian Society of Operations Research, 24-26 September 2001, Adelaide, Australia.
63. M. Krishnamoorthy and A. Ernst, "Scheduling Aircraft Landings Optimally" (2001), Proceedings of the 41st Annual Symposium of AGIFOS, 27 August to 1 September 2001, Sydney, Australia.
64. J. F. Campbell, A. Ernst and M. Krishnamoorthy, "Locating Airline Hubs Optimally", Proceedings of the 41st Annual Symposium of AGIFOS, 27 August to 1 September 2001, Sydney, Australia.
65. J. F. Campbell, A. Ernst and M. Krishnamoorthy (1999), "New models for hub location in transportation networks", Proceedings of the 3rd International Industrial Engineering Conference, Montreal, Quebec, May 1999, pp 2063-2072.
66. N. Boland, A. Ernst, M. Krishnamoorthy and J. Ebery (1999), "Preprocessing and cutting methods for multiple allocation hub location problems", Proceedings 15th National ASOR Conference (Gold Coast, Australia, 4-7 July 1999), pp 205-220.
67. J. F. Campbell, A. Ernst and M. Krishnamoorthy (1999), "Models and algorithms for locating hub arcs", Proceedings 15th National ASOR Conference (Gold Coast, Australia, 4-7 July 1999), pp 269-283.
68. A. Ernst, H. Jiang, M. Krishnamoorthy, H. Nott and D. Sier (1999), "An optimisation approach to train crew rostering, Proceedings 15th National ASOR Conference (Gold Coast, Australia, 4-7 July 1999), pp. 437-452

69. A. Ernst, M. Krishnamoorthy and H. Nott (1999), "Dual updates used in the auction algorithm for two dimensional assignment", Proceedings 15th National ASOR Conference (Gold Coast, Australia, 4-7 July 1999), pp. 453-469.
70. A. Ernst, M. Krishnamoorthy, H. Nott and D. Sier (1999), "Algorithms for the SAAS Rostering Problem", Proceedings 15th National ASOR Conference (Gold Coast, Australia), pp. 470-482.
71. Krishnamoorthy, M., A.T. Ernst and Y.M. Sharaiha (1998) Algorithms for the degree constrained minimum spanning tree, Proceedings of International Conference on Optimisation Techniques and Applications, L. Caccetta, K.L. Teo, P.F. Sieq, Y.H. Leung, L.S. Jennings and V. Rehbock (Eds.), Curtin University of Technology (Perth, Western Australia), pp. 867-874.
72. Ernst, A.T., M. Krishnamoorthy and D. Dowling (1998) Train crew rostering using simulated annealing, Proceedings of International Conference on Optimisation Techniques and Applications, L. Caccetta, K.L. Teo, P.F. Sieq, Y.H. Leung, L.S. Jennings and V. Rehbock (Eds.), Curtin University of Technology (Perth, Western Australia), pp. 859-866.
73. A. Ernst, M. Krishnamoorthy and D. Dowling, "A simulated annealing approach for train driver rostering", Proceedings of CO96 conference, Imperial College, London, March 1996.
74. A. Ernst and M. Krishnamoorthy, "Solution Algorithms for the Capacitated Single Allocation Hub Location Problem", Proceedings of CO96 Conference, Imperial College, London, March 1996.
75. M. Krishnamoorthy, M. Westcott and J. Youngman, "Road Service Simulation for RACV", Proceedings of the 13th National ASOR Conference, Canberra, 1995.
76. G. Craig, M. Krishnamoorthy and M. Palaniswami, "A Comparison of Heuristic Algorithms for the Degree Constrained Minimum Spanning Tree", Proceedings of the 13th National ASOR Conference, Canberra, 1995.
77. D. Dowling, M. Krishnamoorthy, H. MacKenzie and D. Sier, " Staff Rostering at a Large International Airport", Proceedings of the 13th National ASOR Conference, Canberra, 1995.
78. K. Smith, M. Krishnamoorthy and M. Palaniswami, "On the Location of Interacting Hub Facilities: Neural versus Traditional Approaches", Proceedings of the 13th ASOR Conference, Canberra, pp. 423-432, 1995.
79. G. Craig, M. Krishnamoorthy and M. Palaniswami, "Comparison of heuristic algorithms for the degree constrained minimum spanning tree", Proceedings of the Metaheuristics International Conference MIC--95, pages 266--272, Breckenridge, Colorado (USA), July 1995.
80. D. Abramson, H. Dang and M. Krishnamoorthy, "Cooling schedules for simulated annealing based scheduling algorithms", Proceedings Australian Computer Science Conference, New Zealand, 1994.
81. N. G. Barton, P. W. Cleary, J. Ha, M. Krishnamoorthy, J .R. Mooney and A.N. Stokes, "Industrial Case Studies at the Interface Between Engineering and Applied Mathematics", Proceedings of the 1st Biennial Australian Engineering Mathematics Conference, Melbourne, Australia, 1994.

82. R. Barker, K. Brinschwitz, M. Krishnamoorthy and G. Mills, "Maximizing the value of multi--field developments", Proceedings 1994 Asia Pacific Oil and Gas Conference, pages 485--494. Nov 1994, Melbourne, Australia.
83. J. Abela, D. Abramson, M. Krishnamoorthy, A De Silva and G. Mills, "Computing optimal schedules for landing aircraft", Proceedings 12th National ASOR Conference, Adelaide, pp 71--90, 1993.
84. K. Smith, M. Krishnamoorthy and M. Palaniswami (1993), "Optimal Sequencing of Car Models Along an Assembly Line", Proceedings of the 12th National ASOR Conference, Adelaide, 580-603, 1993.
85. K. Smith, M. Palaniswami and M. Krishnamoorthy, "A Hopfield Network Approach to the Car Sequencing Problem", Proceedings of the Australian and New Zealand Conference on Intelligent Information Systems (ANZIIS), Perth, pp. 348-352, 1993.
86. D. Abramson, H. Dang and M. Krishnamoorthy, "Enhanced simulated annealing through linear programming preprocessing", Proceedings, 12th National ASOR Conference, pp 91--114, July 1993.
87. J. van der Touw and M Krishnamoorthy, "Estimating the viability of an instant car pooling club", Proceedings, 12th National ASOR Conference, pp 354--375, July 1993.
88. M. Krishnamoorthy and N. Christofides, "A Complimentary dual algorithm for the travelling salesman problem", Proceedings, 12th National ASOR Conference, pp 376--404, July 1993.
89. M. Krishnamoorthy and N. Christofides, "A heuristic solution to the travelling salesman problem in the plane using fractal geometry", Proceedings, 12th National ASOR Conference, pp 405--432, 1993.
90. M. Krishnamoorthy, G. Mills and D. Sier, "Stockpile planning at Dampier Salt", Proceedings of the Bulk Materials Conference, Australia, pp 73--81, September 1993.

Ten Best Career Publications

1. Ernst, A.T., H. Hamacher, H. Jiang, M. Krishnamoorthy and G. Woeginger, Uncapacitated Single and Multiple Allocation p-Hub Center Problems, Computers and Operations Research [in Press], accepted August 2008
2. Ernst, A.T., M. Horn, P. Kilby, M. Krishnamoorthy, P. Degenhardt and M. Moran (2007) Static and Dynamic Order Scheduling for Recreational Rental Vehicles at Tourism Holdings Limited, Interfaces, Vol.37, No.4, pp. 334—341.
3. Ernst, A.T., H. Jiang and M. Krishnamoorthy (2006) Exact Solutions to Task Allocation Problems, Management Science, Vol.52, No.10, pp. 1634-1646.
4. Campbell, J.F., A.T. Ernst and M. Krishnamoorthy (2005) Hub Arc Location Problems: Part II - Formulations and Optimal Algorithms, Management Science, Vol.51, No.10, pp. 1556-1571
5. Ernst, A.T., H. Jiang, M. Krishnamoorthy and D. Sier (2004) Staff Scheduling and Rostering: A review of applications, methods and models, European Journal of Operational Research, Vol.153, No.1, pp. 3-27

6. Krishnamoorthy, M., A.T. Ernst and Y.M. Sharaiha (2001) Comparisons of algorithms for the Degree Constrained Minimum Spanning Tree, *Journal of Heuristics*, Vol.7, No.6, pp. 587—611
7. Ernst, A.T. and M Krishnamoorthy (1999) Solution algorithms for the capacitated single allocation hub location problem, *Annals of Operations Research*, Vol.86, pp. 141—159
8. Ernst, A.T., M. Krishnamoorthy and R. Storer (1999) Exact and Heuristic algorithms for scheduling aircraft landings, *Networks*, Vol.34, No.3, pp. 229-241.
9. Ernst, A.T. and M. Krishnamoorthy (1998) An Exact Solution Approach Based on Shortest-Paths for p-Hub Median Problems, *INFORMS Journal on Computing*, Vol.10, No.2, pp. 149-162.
10. Ernst, A.T. and M. Krishnamoorthy (1996) Efficient Algorithms for the Uncapacitated Single Allocation p-hub Median Problem, *Location Science*, Vol.4, No.3, pp. 139-154