

## Refereed Publications, Michael A. Langston

1. “Maximizing the Minimum Processor Finish Time in a Multi-Processor System,” *SIAM Journal on Algebraic and Discrete Methods* 3 (1982), 190–196, with B. Deuermeier and D. K. Friesen.
2. “Improved O/1 Interchange Scheduling,” *BIT* 22 (1982), 282–290.
3. “Hybrid Algorithms for  $\mathcal{NP}$ -Hard Problems,” *Proceedings, Allerton Conference on Communication, Control and Computing*, University of Illinois, Urbana, Illinois, October, 1982, with D. K. Friesen.
4. “Bounds for Multifit Scheduling on Uniform Processors,” *SIAM Journal on Computing* 12 (1983), 60–70, with D. K. Friesen.
5. “Improved LPT Scheduling for Identical Processor Systems,” *Technology and Science of Informatics* 1 (1983), 51–57.
6. “Variable Sized Bin Packing,” *Proceedings, Allerton Conference on Communication, Control and Computing*, University of Illinois, Urbana, Illinois, October, 1983, with D. K. Friesen.
7. “Performance of Heuristics for a Computer Resource Allocation Problem,” *SIAM Journal on Algebraic and Discrete Methods* 5 (1984), 154–161.
8. “A Storage-Size Selection Problem,” *Information Processing Letters* 18 (1984), 295–296, with D. K. Friesen.
9. “Remarks on the Makespan Minimization Problem,” *Computers and Industrial Engineering* 8 (1984), 193–196.
10. “A Performance Guarantee for the Greedy Set-Partitioning Algorithm,” *Acta Informatica* 21 (1984), 409–415, with E. G. Coffman, Jr.
11. “Movement Coordination for Single-Track Robot Systems,” *Proceedings, IEEE Conference on Robotics and Automation*, St. Louis, Missouri, March, 1985, with C. E. Kim.
12. “Exact and Approximate Solutions for the Gate Matrix Layout Problem,” *Proceedings, Symposium on Complexity of Approximately Solved Problems*, Columbia University, New York, New York, April, 1985 with N. Deo and M. S. Krishnamoorthy.
13. “Variable Sized Bin Packing,” *SIAM Journal on Computing* 15 (1986), 222–230, with D. K. Friesen.
14. “Evaluation of a Multifit-Based Scheduling Algorithm,” *Journal of Algorithms* 7 (1986), 35–59, with D. K. Friesen.

15. "Interstage Transportation Planning in the Flow-Shop Environment," *Proceedings, Symposium on Real-Time Optimization in Automated Manufacturing Facilities*, National Bureau of Standards, Gaithersburg, Maryland, January, 1986, with A. M. Morasch.
16. "Stable Duplicate-Key Extraction with Optimal Time and Space Bounds," *Proceedings, Allerton Conference on Communication, Control and Computing*, University of Illinois, Urbana, Illinois, October, 1986, with B.-C. Huang.
17. "Bin Packing: On Optimizing the Number of Pieces Packed," *BIT* 27 (1987), 148–156, with D. K. Friesen.
18. "A Study of Composite Heuristic Algorithms," *Journal of the Operational Research Society* 38 (1987), 539–544.
19. "Interstage Transportation Planning in the Deterministic Flow-Shop Environment," *Operations Research* 35 (1987), 556–564.
20. "Movement Coordination for Single-Track Robot Systems," *Journal of Robotic Systems* 4 (1987), 49–62, with C. E. Kim. (A preliminary version of a portion of this paper appeared in publication number 11.)
21. "Nonconstructive Advances in Polynomial-Time Complexity," *Information Processing Letters* 26 (1987), 157–162, with M. R. Fellows.
22. "Exact and Approximate Solutions for the Gate Matrix Layout Problem," *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems* 6 (1987), 79–84, with N. Deo and M. S. Krishnamoorthy. (A preliminary version of a portion of this paper appeared in publication number 12.)
23. "Planning of a Material Handling System," in Artificial Intelligence – Implications for Computer Integrated Manufacturing (A. Kusiak, editor), Springer–Verlag, 1987, 338–346, with A. M. Morasch.
24. "Processor Utilization in a Linearly Connected Parallel Processing System," *Proceedings, IEEE Phoenix Conference on Computers and Communications*, Phoenix, Arizona, February, 1987, with M. R. Fellows.
25. "Nonconstructive Tools for Guaranteeing Polynomial-Time Complexity," *Proceedings, Princeton Forum on Algorithms and Complexity*, Princeton University, Princeton, New Jersey, March, 1987, with D. J. Brown and M. R. Fellows.
26. "On Finding Obstruction Sets and Polynomial-Time Algorithms for Gate Matrix Layout," *Proceedings, Allerton Conference on Communication, Control and Computing*, University of Illinois, Urbana, Illinois, October, 1987, with R. L. Bryant, M. R. Fellows and N. G. Kinnarsley.
27. "Practical In-Place Merging," *Proceedings, ACM-IEEE/CS Fall Joint Computer Conference*, Dallas, Texas, October, 1987, with B.-C. Huang.

28. "On a Special Case of Uniform Processor Scheduling," *Journal of Algorithms* 9 (1988), 287–296, with M. Kunde and J.-M. Liu.
29. "On a Proposed Divide-and-Conquer Minimal Spanning Tree Algorithm," *BIT* 28 (1988), 785–791, with I. Stojmenovic.
30. "Nonconstructive Tools for Proving Polynomial-Time Decidability," *Journal of the ACM* 35 (1988), 727–739, with M. R. Fellows.
31. "Processor Utilization in a Linearly Connected Parallel Processing System," *IEEE Transactions on Computers* 37 (1988), 594–603, with M. R. Fellows. (A preliminary version of a portion of this paper appeared in publication number 24.)
32. "On Finding Optimal and Near-Optimal Lineal Spanning Trees," *Algorithmica* 3 (1988), 549–560, with M. R. Fellows and D. K. Friesen.
33. "Practical In-Place Merging," *Communications of the ACM* 31 (1988), 348–352, with B.-C. Huang. (A preliminary version of a portion of this paper appeared in publication number 27.)
34. "Layout Permutation Problems and Well-Partially-Ordered Sets," in Advanced Research in VLSI (J. Allen and F. T. Leighton, editors), The MIT Press, 1988, 315–327, with M. R. Fellows.
35. "Fast Self-Reduction Algorithms for Combinatorial Problems of VLSI Design," *Proceedings, International Workshop on Parallel Computation and VLSI Theory*, Corfu Island, Greece, June, 1988, with M. R. Fellows. Proceedings published as Lecture Notes in Computer Science 319 (J. Reif, editor), Springer–Verlag, 278–287.
36. "Stable Set and Multiset Operations in Optimal Time and Space," *Proceedings, ACM Symposium on Principles of Database Systems (PODS)*, Austin, Texas, March, 1988, with B.-C. Huang.
37. "Dense Symmetric Networks from Linear Groups and Codes," *Proceedings, Symposium on the Frontiers of Massively Parallel Computation*, Fairfax, Virginia, October, 1988, with L. Campbell, G. E. Carlsson, V. Faber, M. R. Fellows, J. W. Moore, A. P. Mullhaupt and H. B. Sexton.
38. "Online Variable-Sized Bin Packing," *Discrete Applied Mathematics* 22 (1989), 143–148, with N. G. Kinnersley.
39. "Stable Duplicate-Key Extraction with Optimal Time and Space Bounds," *Acta Informatica* 26 (1989), 473–484, with B.-C. Huang. (A preliminary version of a portion of this paper appeared in publication number 16.)
40. "Polynomial-Time Self-Reducibility: Theoretical Motivations and Practical Results," *International Journal of Computer Mathematics* 31 (1989), 1–9, with D. J. Brown and M. R. Fellows.

41. "Finite-Basis Theorems and a Computation-Integrated Approach to Obstruction Set Isolation," in *Computers and Mathematics* (E. Kaltofen and S. M. Watt, editors), Springer-Verlag, 1989, 37–45, with M. R. Fellows and N. G. Kinnersley.
42. "On Search, Decision and the Efficiency of Polynomial-Time Algorithms," *Proceedings, ACM Symposium on Theory of Computing (STOC)*, Seattle, Washington, May, 1989, with M. R. Fellows.
43. "Fast Stable Merging and Sorting in Constant Extra Space," *Proceedings, International Conference on Computing and Information*, Toronto, Ontario, May, 1989, with B.-C. Huang.
44. "Constructive Complexity," *Proceedings, Capital City Conference on Combinatorics and Theoretical Computer Science*, George Washington University, Washington D.C., May 1989, with K. Abrahamson, M. R. Fellows and B. M. E. Moret.
45. "Time-Space Optimal Parallel Merging and Sorting," *Proceedings, International Conference on Parallel Processing (ICCP)*, St. Charles, Illinois, August, 1989, with X. Guan.
46. "An Analogue of the Myhill-Nerode Theorem and Its Use in Computing Finite-Basis Characterizations," *Proceedings, IEEE Symposium on Foundations of Computer Science (FOCS)*, Raleigh, North Carolina, October, 1989, with M. R. Fellows.
47. "Resource Allocation under Limited Sharing," *Discrete Applied Mathematics* 28 (1990), 135–147, with M. P. Morford.
48. "Time-Space Optimal Parallel Set Operations," *Proceedings, International Conference on Databases, Parallel Architectures and Applications*, Miami Beach, Florida, March, 1990, with X. Guan.
49. "Distributed Algorithms for Multi-Channel Broadcast Networks," *Proceedings, Distributed Memory Computing Conference*, Charleston, South Carolina, April, 1990, with X. Guan.
50. "On Experiments with Time-Space Optimal Parallel Merging and Sorting Algorithms," *Proceedings, IEEE Symposium on Parallel and Distributed Processing*, Dallas, Texas, December, 1990, with X. Guan.
51. "Time-Space Optimal Parallel Merging and Sorting," *IEEE Transactions on Computers* 40 (1991), 596–602, with X. Guan. (A preliminary version of a portion of this paper appeared in publication number 45.)
52. "Fast Search Algorithms for Layout Permutation Problems," *International Journal of Computer Aided VLSI Design* 3 (1991), 325–342, with M. R. Fellows.
53. "Stable Set and Multiset Operations in Optimal Time and Space," *Information Processing Letters* 39 (1991), 131–136, with B.-C. Huang. (A preliminary version of a portion of this paper appeared in publication number 36.)

54. "Analysis of a Compound Bin Packing Algorithm," *SIAM Journal on Discrete Mathematics* 4 (1991), 61–79, with D. K. Friesen.
55. "Dense Layouts for Series-Parallel Circuits," *Proceedings, Great Lakes Symposium on VLSI*, Kalamazoo, Michigan, March, 1991, with S. Ramachandramurthi.
56. "Constructive Complexity," in *Combinatorics and Theoretical Computer Science* (R. Simion, editor), North-Holland, 1992, 3–16, with K. Abrahamson, M. R. Fellows and B. M. E. Moret. (A preliminary version of a portion of this paper appeared in publication number 44.)
57. "Small Diameter Symmetric Networks from Linear Groups," *IEEE Transactions on Computers* 41 (1992), 218–220, with L. Campbell, G. E. Carlsson, M. J. Dinneen, V. Faber, M. R. Fellows, J. W. Moore, A. P. Mullhaupt and H. B. Sexton.
58. "On Well-Partial-Order Theory and Its Application to Combinatorial Problems of VLSI Design," *SIAM Journal on Discrete Mathematics* 5 (1992), 117–126, with M. R. Fellows.
59. "Parallel Methods for Solving Fundamental File Rearrangement Problems," *Journal of Parallel and Distributed Computing* 14 (1992), 436–439, with X. Guan.
60. "Fast Stable Merging and Sorting in Constant Extra Space," *The Computer Journal* 35 (1992), 643–650, with B.-C. Huang. (A preliminary version of a portion of this paper appeared in publication number 43.)
61. "Constructivity Issues in Graph Algorithms," *Proceedings, Symposium on Constructivity in Computer Science*, San Antonio, Texas, June, 1991, with M. R. Fellows. Proceedings published as *Lecture Notes in Computer Science* 613 (J. P. Myers and M. J. O'Donnell, editors), Springer-Verlag, 150–158.
62. "Cutwidth Approximation in Linear Time," *Proceedings, Great Lakes Symposium on VLSI*, Kalamazoo, Michigan, February, 1992, with H. D. Booth, R. Govindan and S. Ramachandramurthi.
63. "An Obstruction-Based Approach to Layout Optimization," in *Graph Structure Theory* (N. Robertson and P. D. Seymour, editors), AMS Press, 1993, 623–630.
64. "Time-Space Optimal Parallel Computation," in *Parallel Algorithm Derivation and Program Transformation* (R. Paige, J. Reif and R. Wachter, editors), Kluwer Academic Publishers, 1993, 207–223.
65. "Concurrency and Parallelism," in *Computing and Information* (J. W. Grzymala-Busse, H. Jurgensen, D. W. Krumme, M. A. Langston and P. K. Srimani, editors), IEEE Computer Society Press, 1993, 213–287.
66. "MIMD versus SIMD Computation: Experience with Nonnumeric Parallel Algorithms," *Proceedings, Hawaii International Conference on System Sciences (HICSS)*, Maui, Hawaii, January, 1993, with C. P. Breshears.

67. "A Practical Approach to Layout Optimization," *Proceedings, International Conference on VLSI Design*, Bombay, India, January, 1993, with R. Govindan and S. Ramachandramurthi.
68. "Obstruction Set Isolation for the Gate Matrix Layout Problem," *Discrete Applied Mathematics* 54 (1994), 169–213, with N. G. Kinnersley.
69. "On Search, Decision and the Efficiency of Polynomial-Time Algorithms," *Journal of Computer and Systems Sciences* 49 (1994), 769–779, with M. R. Fellows. (A preliminary version of a portion of this paper appeared in publication number 42.)
70. "MIMD versus SIMD Computation: Experience with Nonnumeric Parallel Algorithms," *Journal of Parallel Algorithms and Applications* 2 (1994), 123–138, with C. P. Breshears. (A preliminary version of a portion of this paper appeared in publication number 66.)
71. "Computational Experience with In-Place Parallel Algorithms," *Proceedings, DIMACS Workshop on Organizing and Moving Data in Parallel Computers*, Princeton University, Princeton, New Jersey, January, 1994, with C. P. Breshears.
72. "On Non-Numeric Algorithms for Parallel Benchmarks," *Proceedings, Scalable High Performance Computing Conference*, Knoxville, Tennessee, May, 1994, with C. P. Breshears.
73. "Computational Experience with the CMMD Library," *Proceedings, Scalable High Performance Computing Conference*, Knoxville, Tennessee, May, 1994, with C. P. Breshears.
74. "Algorithmic Implications of the Graph Minor Theorem," in Handbook of Operations Research and Management Science: Network Models (M. O. Ball, T. L. Magnanti, C. L. Monma and G. L. Nemhauser, editors), North-Holland, 1995, 481–502, with D. Bienstock.
75. "Parallel Algorithms, An Introduction to the Minitrack," *Proceedings, Hawaii International Conference on System Sciences (HICSS)*, Maui, Hawaii, January, 1995.
76. "Parallel Benchmarks and Comparison-Based Computing," *Proceedings, International Conference on Parallel Computing*, Gent, Belgium, September, 1995, with C. P. Breshears.
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78. "Parallel Benchmarks and Comparison-Based Computing," in Advances in Parallel Computing 11 (E. D'Hollander, G. R. Joubert, F. J. Peters and D. Trystam, editors), Elsevier Science Publishers, 1996, 581–584, with C. P. Breshears. (A preliminary version of a portion of this paper appeared in publication number 76.)
79. "Parallel and Distributed Algorithms, An Introduction to the Minitrack," *Proceedings, Hawaii International Conference on System Sciences (HICSS)*, Maui, Hawaii, January, 1997, with S. Olariu and J. L. Schwing.
80. "On Algorithmic Applications of the Immersion Order," *Discrete Mathematics* 182 (1998), 191–196, with B. C. Plaut.

81. "Approximating the Pathwidth of Outerplanar Graphs," *Information Processing Letters* 68 (1998), 17–23, with R. Govindan and X. Yan.
82. "Tools for Mapping Applications to CCMs," *Proceedings, International Conference on Configurable Computing Technology and Applications*, Boston, Massachusetts, November, 1998, with M. T. Jones and P. Raghavan.
83. "Fast Algorithms for  $K_4$  Immersion Testing," *Journal of Algorithms* 30 (1999), 344–378, with H. D. Booth, R. Govindan and S. Ramachandramurthi.
84. "On Computing Graph Minor Obstruction Sets," *Theoretical Computer Science* 233 (2000), 107–127, with K. Cattell, M. J. Dinneen, R. G. Downey and M. R. Fellows.
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87. "On Special-Purpose Hardware Clusters for High-Performance Computational Grids," *Proceedings, International Conference on Parallel and Distributed Computing and Systems (PDCS)*, Cambridge, Massachusetts, November, 2002, with F. N. Abu-Khzam, D. W. Bouldin, J. M. Lehrter and G. D. Peterson.
88. "Distributed Dimension Reduction Algorithms for Widely Dispersed Data," *Proceedings, International Conference on Parallel and Distributed Computing and Systems (PDCS)*, Cambridge, Massachusetts, November, 2002, with F. N. Abu-Khzam, A. Geist, G. Ostrouchov and N. F. Samatova.
89. "Graph Coloring and the Immersion Order," *Proceedings, International Conference on Computing and Combinatorics (COCOON)*, Big Sky, Montana, July, 2003, with F. N. Abu-Khzam. Proceedings published as Lecture Notes in Computer Science 2697 (T. Warnow and B. Zhu, editors), Springer–Verlag, 394–403.
90. "Scalable Parallel Algorithms for Difficult Combinatorial Problems: A Case Study in Optimization," *Proceedings, International Conference on Parallel and Distributed Computing and Systems (PDCS)*, Marina Del Rey, California, November, 2003, with F. N. Abu-Khzam and P. Shanbhag.
91. "A Combinatorial Approach to the Analysis of Differential Gene Expression Data: The Use of Graph Algorithms for Disease Prediction and Screening," *Proceedings, International Conference for the Critical Assessment of Microarray Data Analysis (CAMDA)*, Durham, North Carolina, November, 2003, with N. E. Baldwin, L. Lin, X. Peng, J. R. Snoddy, C. T. Symons and B. Zhang.

92. “Grid Computing, An Introduction to the Minitrack,” *Proceedings, Hawaii International Conference on System Sciences (HICSS)*, Big Island, Hawaii, January, 2004, with F. N. Abu-Khzam.
93. “Kernelization Algorithms for the Vertex Cover Problem: Theory and Experiments,” *Proceedings, Workshop on Algorithm Engineering and Experiments (ALENEX)*, New Orleans, Louisiana, January, 2004, with F. N. Abu-Khzam, R. L. Collins, M. R. Fellows, W. H. Suters and C. T. Symons.
94. “High Performance Computational Tools for Motif Discovery,” *Proceedings, IEEE International Workshop on High Performance Computational Biology (HiCOMB)*, Santa Fe, New Mexico, April, 2004, with N. E. Baldwin, R. L. Collins, M. R. Leuze, C. T. Symons and B. H. Voy.
95. “Practical FPT Implementations and Applications (Plenary Lecture),” *Proceedings, International Workshop on Parameterized and Exact Computation (IWPEC)*, Bergen, Norway, September, 2004. Proceedings published as Lecture Notes in Computer Science 3162 (R. Downey and M. R. Fellows, editors), Springer, 291.
96. “A Direct Algorithm for the Parameterized Face Cover Problem,” *Proceedings, International Workshop on Parameterized and Exact Computation (IWPEC)*, Bergen, Norway, September, 2004, with F. N. Abu-Khzam. Proceedings published as Lecture Notes in Computer Science 3162 (R. Downey and M. R. Fellows, editors), Springer, 213–222.
97. “Detecting Network Motifs in Gene Co-expression Networks,” *Proceedings, International Conference for the Critical Assessment of Microarray Data Analysis (CAMDA)*, Durham, North Carolina, November, 2004, with N. E. Baldwin, X. Peng, A. M. Saxton and J. R. Snoddy.
98. “Complex Trait Analysis of Gene Expression Uncovers Polygenic and Pleiotropic Networks that Modulate Nervous System Function,” *Nature Genetics* 37 (2005), 233–242, with N. E. Baldwin, E. J. Chesler, J. Gu, H. C. Hsu, L. Lu, K. F. Manly, J. D. Mountz, Y. Qu, S. Shou, D. W. Threadgill, J. Wang and R. W. Williams.
99. “Computational, Integrative and Comparative Methods for the Elucidation of Genetic Co-expression Networks,” *Journal of Biomedicine and Biotechnology* 2 (2005), 172–180, with N. E. Baldwin, E. J. Chesler, S. Kirov, J. R. Snoddy, R. W. Williams and B. Zhang.
100. “A Combinatorial Approach to the Analysis of Differential Gene Expression Data: The Use of Graph Algorithms for Disease Prediction and Screening,” in Methods of Microarray Data Analysis IV (J. S. Shoemaker and S. M. Lin, editors), Springer, 2005, 223–238, with N. E. Baldwin, L. Lin, X. Peng, J. R. Snoddy, C. T. Symons and B. Zhang. (A preliminary version of a portion of this chapter appeared in publication number 91.)
101. “A Methodology to Support Dependable Survivable Cyber-Secure Infrastructures,” *Proceedings, Hawaii International Conference on System Sciences (HICSS)*, Big Island, Hawaii, January, 2005, with S. G. Batsell, S. J. Prowell and F. T. Sheldon.



102. “Fast, Effective Vertex Cover Kernelization: A Tale of Two Algorithms,” *Proceedings, ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)*, Cairo, Egypt, January, 2005, with F. N. Abu-Khzam and W. H. Suters.
103. “On the Relative Efficiency of Maximal Clique Enumeration Algorithms, with Application to High-Throughput Computational Biology,” *Proceedings, International Conference on Research Trends in Science and Technology*, Beirut, Lebanon, March, 2005, with F. N. Abu-Khzam, N. E. Baldwin and N. F. Samatova.
104. “Linear-Time Algorithms for Problems on Planar Graphs of Fixed Disk Dimension,” *Proceedings, International Workshop on Algorithms and Complexity in Durham (ACiD)*, Durham, England, July, 2005, with F. N. Abu-Khzam.
105. “Asymptotically Faster Algorithms for the Parameterized Face Cover Problem,” *Proceedings, International Workshop on Algorithms and Complexity in Durham (ACiD)*, Durham, England, July, 2005, with F. N. Abu-Khzam and H. Fernau.
106. “FPT is P-Time Extremal Structure I,” *Proceedings, International Workshop on Algorithms and Complexity in Durham (ACiD)*, Durham, England, July, 2005, with V. Estivill-Castro, M. R. Fellows and F. A. Rosamond.
107. “A New Approach and Faster Exact Methods for the Maximum Common Subgraph Problem,” *Proceedings, International Computing and Combinatorics Conference (COCOON)*, Kunming, China, August, 2005, with F. N. Abu-Khzam, N. F. Samatova, W. H. Suters, C. T. Symons and Y. Zhang. Proceedings published as Lecture Notes in Computer Science 3595 (L. Wang, editor), Springer, 717–727.
108. “An  $O^*(2^{O(k)})$  FPT Algorithm for the Undirected Feedback Vertex Set Problem,” *Proceedings, International Computing and Combinatorics Conference (COCOON)*, Kunming, China, August, 2005, with F. Dehne, M. R. Fellows, F. A. Rosamond and K. Stevens. Proceedings published as Lecture Notes in Computer Science 3595 (L. Wang, editor), Springer, 859–869.
109. “Genome-Scale Computational Approaches to Memory-Intensive Applications in Systems Biology,” *Proceedings, SuperComputing 2005 (SC|05)*, Seattle, Washington, November, 2005, with F. N. Abu-Khzam, N. E. Baldwin, E. J. Chesler, N. F. Samatova and Y. Zhang.
110. “Combinatorial Genetic Regulatory Network Analysis Tools for High Throughput Transcriptomic Data,” *Proceedings, RECOMB Satellite Workshop on Systems Biology and Regulatory Genomics*, San Diego, California, December, 2005, with E. J. Chesler. Proceedings published as Lecture Notes in Computer Science 4023 (E. Eskin, T. Ideker, B. Raphael and C. Workman, editors), Springer, 150–165.
111. “Scalable Parallel Algorithms for FPT Problems,” *Algorithmica* 45 (2006), 269–284, with F. N. Abu-Khzam, P. Shanbhag and C. T. Symons.
112. “A Network-Based Analysis of the Late Phase Reaction of the Skin,” *Journal of Allergy and Clinical Immunology* 118 (2006), 220–225, with M. Adner, B. Andersson, M. Benson, L. O. Cardell and Å. Torinsson-Naluai.

113. "Parameterized and Exact Computation, Editorial and Introduction to the Special Issue," *Theoretical Computer Science* 351 (2006), 295, with R. Downey and R. Niedermeier.
114. "Extracting Gene Networks for Low Dose Radiation using Graph Theoretical Algorithms," *PLoS Computational Biology* 2 (2006), 757–768, with B. R. Borate, L. K. Branstetter, E. J. Chesler, A. D. Perkins, A. M. Saxton, J. A. Scharff and B. H. Voy.
115. "Detecting Differential and Correlated Protein Expression in Label-Free Shotgun Proteomics," *Journal of Proteome Research* 5 (2006), 2909–2918, with R. L. Hettich, N. F. Samatova, E. Uberbacher, N. C. VerBerkmoes and B. Zhang.
116. "A Network-Based Analysis of Allergen-Challenged CD4<sup>+</sup> T Cells from Patients with Allergic Rhinitis," *Genes and Immunity* 7 (2006), 514–521, with B. Andersson, M. Benson, L. Carlsson, G. Guillot, M. Jernås and M. Rudemo.
117. "Computational Analysis of Mass Spectrometry Data Using Novel Combinatorial Methods," *Proceedings, ACS/IEEE International Conference on Computer Systems and Applications (AICCSA)*, Dubai, United Arab Emirates, March, 2006, with A. Fadiel, F. Naftolin, X. Peng, A. D. Perkins, P. Pevsner, H. S. Taylor, O. Tuncalp and D. Vitello.
118. "Innovative Computational Methods for Transcriptomic Data Analysis," *Proceedings, ACM Symposium on Applied Computing*, Dijon, France, April, 2006, with A. D. Perkins, A. M. Saxton, J. A. Scharff and B. H. Voy.
119. "A Systems Genetic Analysis of Chronic Fatigue Syndrome: Combinatorial Data Integration from SNPs to Differential Diagnosis of Disease," *Proceedings, International Conference for the Critical Assessment of Microarray Data Analysis (CAMDA)*, Durham, North Carolina, June, 2006, with E. J. Chesler, R. Kirova, X. Peng, and A. D. Perkins.
120. "The Cluster Editing Problem: Implementations and Experiments," *Proceedings, International Workshop on Parameterized and Exact Computation (IWPEC)*, Zürich, Switzerland, September, 2006, with F. Dehne, X. Luo, S. Pitre, P. Shaw and Y. Zhang. Proceedings published as *Lecture Notes in Computer Science* 4169 (H. L. Bodlaender and M. A. Langston, editors), Springer, 13–24.
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122. "Combinatorial Algorithms and High Performance Implementations for Elucidating Complex Ecosystem Relationships from North Sea Historical Data," *Proceedings, International Council for the Exploration of the Sea Annual Science Conference*, Maastricht, The Netherlands, September, 2006, with D. J. Beare, R. W. Gauldie, A. J. Kenny, P. J. Kershaw, A. D. Perkins, J. Reid and K. Winpenny.

123. “Integrated Assessment of the North Sea to Identify the Relationship Between Human Pressures and Ecosystem State Changes – Implications for Marine Management,” *Proceedings, International Council for the Exploration of the Sea Annual Science Conference*, Maastricht, The Netherlands, September, 2006, with D. J. Beare, M. Devlin, A. Gallego, R. W. Gauldie, C. Haughton, A. J. Kenny, P. J. Kershaw, P. Licandro, A. D. Perkins, J. Reid, H. R. Skjoldal and K. Winpenny.
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125. “Kernelization for Convex Recoloring of Trees,” *Proceedings, International Workshop on Algorithms and Complexity in Durham (ACiD)*, Durham, England, September, 2006, with H. L. Bodlaender, M. R. Fellows, M. A. Ragan and F. A. Rosamond.
126. “Crown Structures for Vertex Cover Kernelization,” *Theory of Computing Systems* 41 (2007), 411–430, with F. N. Abu-Khzam, M. R. Fellows and W. H. Suters.
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