

Curriculum Vita

Ding-Zhu Du

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I. BIOGRAPHICAL DATA

Education

- Ph.D. in Mathematics (research area in Theoretical Computer Science), University of California at Santa Barbara, 1985; Advisor Ronald V. Book
- M.S. in Operations Research, Chinese Academy of Sciences, 1982; Advisor Minyi Yue

Professional Experience

- Professor, Department of Computer Science, University of Texas at Dallas, since 2005.
- Program Director for CISE/CCF, National Science Foundation, USA, 2002-2005.
- Professor, Department of Computer Science, University of Minnesota, 1995-2005.
- Associate Professor, Department of Computer Science, University of Minnesota, 1991-1995.
- Visiting Research Professor, Department of Computer Science, City University of Hong Kong, 1998-1999.
- Postdoctor Fellow, the Center for Discrete Mathematics and Theoretical Computer Science, at Department of Computer Science, Princeton University, 1990-1991. (Supervisor: Robert Tarjin.)
- Research Professor, Institute of Applied Mathematics, Chinese Academy of Sciences, 1987-2001.
- Assistant Professor, Department of Mathematics, Massachusetts Institute of Technology, 1986-1987.
- Postdoctor Fellow in computational complexity program at Mathematical Sciences Research Institute, Berkeley, California, 1985-1986. (Supervisor: Richard Karp.)
- Research Assistant Professor, Institute of Applied Mathematics, Chinese Academy of Sciences, 1981-1982.

Honor and Awards

2009-2014 Honorary Dean of Science, Xi'an Jiaotong University, 2009-2014.

2007 Received the Best Paper Award from International Conference on Wireless Algorithms, Systems and Applications (WASA'07), Chicago, Illinois, USA, 8/1-3, 2007.

2003 Received the Best Paper Award from the 22nd IEEE International Performance, Computing, and Communication Conference at Phoenix, Arizona, USA, April 9-11.

1998 Received CSTS Prize from INFORMS (a merge of American Operations Research Society and Institute of Management Science) for research excellence in the interface between Operations Research and Computer Science.

1996 Received the 2nd Class National Natural Science Prize in China.

1996 Fellow of the Center for Management of Operations and Logistics, University of Texas at Austin.

1993 Received the 1st Class Natural Science Prize from Chinese Academy of Sciences.

1992 Received the National Young Scientist Prize from China.

1992 The proof of Gilbet-Pollak conjecture was selected by 1992 Year Book of Encyclopaedia, Britannica, as the first one among six outstanding achievements in mathematics in 1991.

1992 Received \$500 personal award from Professor Ronald L. Graham, the President of American Mathematics Society, for proving the Steiner ratio conjecture of Gilbert and Pollak.

1990-1991 The proof of Gilbet-Pollak conjecture was reported in *New York Time* on 10/30/1990, *Science* (1990, pp.1081-1082) , *Science News* (12/22-29/1990, pp.389), *SIAM News* Vol 24 No 1 (1991), *New Scientists* (April 1991, pp.22), and *New Scientists* (November 1991, pp.26-29).

1989 Received the 1st Class Young Scientist Prize from Chinese Academy of Sciences, Beijing, China.

1988 Received the 3rd Class National Natural Science Prize in China.

1983 Received Raymond L. Wilder Fund Award in recognition of outstanding achievement as a graduate student at the University of California at Santa Barbara.

Editorial Service

- Editor-in-Chief, *Journal of Combinatorial Optimization*, Springer, since 1997.
- co-Editor-in-Chief, *Discrete Mathematics, Algorithms and Applications*, World Scientific, since 2008.

- co-Editor-in-Chief, *Computational Social Networks*, Springer, since 2013.
- Editorial Board Member, *Theoretical Computer Science*, Elsevier since 1998.
- Editorial Board Member, *Internet Mathematics*, A.K. Peters LTD since 2003.
- Editorial Board Member, *Graphs and Combinatorics* Springer-Verlag since 1996.
- Editorial Board Member, *Journal of Global Optimization*, Springer, since 1995
- Editorial Board Member, *Pacific Journal of Operations Research*, since 2003.
- Editorial Board Member, *International Journal of Security and Networking*, Inderscience Publishers, since 2005.
- Editorial Board Member, *International Journal of Sensor Networks*, Inderscience Publishers, since 2005.
- Editorial Board Member, *Optimization Letters*, Springer, since 2005.
- Editorial Board Member, *International Journal of Telemedicine and Applications*, Inderscience Publishers, since 2006.
- Editorial Board Member, *Asian Journal of Mathematics*, 1997-2014.
- Editorial Board Member, *Sciet. China*, 2003-2012.
- Editorial Board Member, *Annual Combinatorics*, Springer Verlag, during 1997-2002.
- Editorial Board Member, *Journal of Information Science and Engineering*, Academia Sinica, Taipei, since 2003-2009.
- Editorial Board Member, *Journal of Computer Science and Technology*, Science Publisher, Beijing, since 2003-2009.
- Editor of Book Series, *Combinatorial Optimization*, Springer since 1999-2007.
- Editor of Book Series, *Networks Theory and Applications*, Springer, 2000-2007.
- Editorial Board Member of Book Series, *Nonconvex Optimization and Its Applications*, Springer, 1996-2007.
- Editor of Book Series, *Springer Optimization and Its Applications*, Springer, since 2007.

II. CONTRIBUTIONS TO RESEARCH

Current Research Interests

Design and Analysis of Approximation Algorithms for Combinatorial Optimization problems with applications in **Computational Biology** and computer and

communication networks (especially, in **Social Networks**, **Wireless Networks**, **Optical Networks**, and **Switching Networks**).

Refereed Journal Papers

1. Yishuo Shi, Zhao Zhang, Yuchang, Ding-Zhu Du, "Approximation algorithm for minimum weight-tolerant virtual backbone in unit disk graph", *IEEE/ACM Transactions on Networking*, (2016) online first.
2. Guangmo Tong, Weili Wu, Shaojie Tang, Ding-Zhu Du, "Adaptive influence maximization in dynamic social networks", *IEEE/ACM Transactions on Networking*, 25(1): 112-125 (2017)t.
3. Xuan Guo, Jing Zhang, Zhipeng Cai, Ding-Zhu Du, Yi Pan, "Searching genome-wide multi-locus associations for multiple diseases based on Bayesian inference, *IEEE Transactions on Computational Biology and Bioinformatics*, (2016) online first.
4. Guangmo Tong, Weili Wu, Panos M. Pardalos, Ding-Zhu Du, "On positive-influence target-domination", *Optimization Letters*, 11(2): 419-427 (2017).
5. Taibo Luo, Yuqing Zhu, Weili Wu, Yinfeng Xu, Ding-Zhu Du, "Online makespan minimization in MapReduce-like systems with complex reduce tasks", *Optimization Letters*, 11(2): 271-277 (2017).
6. Zhao Zhang, Shuangshuang Li, Hong-Jian Lai, Ding-Zhu Du: Algorithms for the partial inverse matroid problem in which weights can only be increased. *J. Global Optimization* 65(4): 801-811 (2016)
7. Zhao Zhang, Joong-Lyul Lee, Weili Wu, Ding-Zhu Du, "Approximation for minimum strongly connected dominating and absorbing set with routing-cost constraint in disk digraphs", *Optimization Letters*, 10 (2016) 1393-1401.
8. Weifan Wang, Danjun Huang, Yanwen Wang, Yiqiao Wang, Ding-Zhu Du, "A polynomial-time nearly-optimal algorithm for an edge coloring problem in outerplanar graphs", *Journal of Global Optimization*, 65 (2016) 351-367.
9. Guangmo Amo Tong, Shasha Li, Weili Wu, Ding-Zhu Du: "Effector detection in social networks", *IEEE Trans. Comput. Social Systems* 3(4): 151-163 (2016)
10. Zhao Zhang, James Willson, Zaixin Lu, Weili Wu, Xuding Zhu, Ding-Zhu Du: "Approximating maximum lifetime k -coverage through minimizing weighted k -cover in homogeneous wireless sensor networks", *IEEE/ACM Trans. Netw.* 24(6): 3620-3633 (2016).
11. Yongxi Cheng, Ding-Zhu Du, Feifeng Zheng, "A new strongly competitive group testing algorithm with small sequentiality", *Annals of Operations Research*, 2229 (2015) 265-286.
12. James Willson, Weili Wu, Lidong Wu, Ling Ding, Ding-Zhu Du, "New approximation for maximum lifetime coverage", *Optimization*, 63:6 (2014) 839-847.

13. Chenglong Shao, Wonjun Lee and Ding-Zhu Du, "Time-efficiency-oriented missing-tag identification protocols for large-scale RFID systems", *IEEE Antennas and Wireless Propagation Letters*, 13 (2014) 1697-1700.
14. Yongxi Cheng, Ding-Zhu Du, Yinfeng Xu, "A zig-zag approach for competitive group testing", *INFORMS Journal on Computing*, 26:4 (2014) 677-689.
15. Nan Zhang, Zhenhua Duan, Cong Tian, Ding-Zhu Du, "A formal proof of the deadline driven scheduler in PPTL axiomatic system", *Theor. Comput. Sci.* 554 (2014) 229-253.
16. Lidan Fan, Weili Wu, Xuming Zhai, Kai Xing, Wonjun Lee, Ding-Zhu Du, "Maximizing rumor containment in social networks with constrained time", *Social Netw. Analys. Mining*, 4:1 (2014) 214.
17. Zhao Zhang, Weili Wu, Lidan Fan, Ding-Zhu Du, "Minimum vertex cover in ball graphs through local search", *Journal of Global Optimization*, 59 (2014) 663-671.
18. Zaixin Lu, Lidong Wu, Panos M. Pardalos, Eugene Maslov, Wonjun Lee and Ding-Zhu Du, "Routing-efficient CDS construction in disk-containment graphs", *Optimization Letters*, 8 (2014) 425-434.
19. Donghyun Kim, Wei Wang, Weili Wu, Deying Li, Changcun Ma, Nassim Sohaee, Wonjun Lee, Yuexuan Wang, Ding-Zhu Du, "On bounding node-to-sink latency in wireless sensor networks with multiple sinks", *International Journal of Sensor Networks*, 13:1 (2013) 13-29.
20. Kyunghwi Kim, Heejun Roh, Wonjun Lee, Sinjae Lee, Ding-Zhu Du, "PND: a p-persistent neighbor discovery protocol in wireless networks", *Wireless Communications and Mobile Computing*, 13:7 (2013) 650-662.
21. Heejun Roh, Hoorin Park, Cheoulhoon Jung, Ding-Zhu Du, Wonjun Lee, "A price-based spectrum management scheme with stackelberg game in cooperative cognitive radio networks", *IEICE Transactions*, 95-B:9 (2012) 2956-2958.
22. Zhao Zhang, Ding-Zhu Du, "Radar placement along banks of river", *J. Global Optimization* 52:4 (2012) 729-741.
23. Wei Zhang, Weili Wu, Wonjun Lee, Ding-Zhu Du, "Complexity and approximation of the connected set-cover problem", *Journal of Global Optimization*, 53:3 (2012) 563-572.
24. Jieun Yu, Heejun Roh, Wonjun Lee, Sangheon Park, Ding-Zhu Du, "Topology control in cooperative wireless ad-hoc networks", *IEEE Journal on Selected Areas in Communications* 30:9 (2012) 1771-1779.
25. Yang Xiao, Miao Peng, John H. Gibson, Geoffrey G. Xie, Ding-Zhu Du, Athanasios V. Vasilakos, "Tight performance bounds of multihop fair access for MAC protocols in wireless sensor networks and underwater sensor networks", *IEEE Trans. Mob. Comput.*, 11:10 (2012) 1538-1554.

26. Donghyun Kim, Wei Wang, Nassim Sohaee, Changcun Ma, Weili Wu, Wonjun Lee, Ding-Zhu Du, "Minimum data-latency-bound k -sink placement problem in wireless sensor networks, *IEEE/ACM Trans. Netw.*, 19:5 (2011) 1344-1353.
27. Ling Ding, Weili Wu, James Willson, Hongjie Du, Wonjun Lee, Ding-Zhu Du, "Efficient algorithms for topology control problem with routing cost constraints in wireless networks, *IEEE Trans. Parallel Distrib. Syst.*, 22:10 (2011) 1601-1609.
28. Jieun Yu, Wonjun Lee and Ding-Zhu Du, "Reducing reader collision for mobile RFID", *IEEE Transactions on Consumer Electronics*, 57 (2011) 574-582.
29. Hongjie Du, Weili Wu, Wonjun Lee, Qinghai Liu, Zhao Zhang and Ding-Zhu Du, "On minimum submodular cover with submodular cost", *Journal of Global Optimization*, 50 (2011) 229-234.
30. Kyunghwi Kim, Byunghyuk Jung, Wonjun Lee, Ding-Zhu Du, "Adaptive path planning for randomly deployed wireless sensor networks", *J. Inf. Sci. Eng.*, 27 (2011) 1091-1106.
31. Ling Ding, Xiaofeng Gao, Weili Wu, Wonjun Lee, Xu Zhu, Ding-Zhu Du, "An exact algorithm for minimum CDS with shortest path constraint in wireless networks", *Optimization Letters*, 5 (2011) 297-306.
32. Jihoon Choi, Inkyu Lee, Ding-Zhu Du, Wonjun Lee, "FTTP: A fast tree traversal protocol for efficient tag identification in RFID networks", *IEEE Communication Letters*, 14:8 (2010) 713-715.
33. Xiaofeng Gao, Wei Wang, Zhao Zhang, and Dingzhu Du, "A PTAS for d -hop connected dominating set problem on growth-bounded graphs", *Optimization Letters*, 4:3 (2010) 321-333.
34. Xu Zhu, Jieun Yu, Wonjun Lee, Donghyun Kim, Shan Shan, and Ding-Zhu Du, "New dominating sets in social networks", *Journal Of Global Optimization*, 48:4 (2010) 633-642.
35. Weili Wu, Xiaofeng Gao, Panos M. Pardalos and Ding-Zhu Du, "Wireless networking, dominating and packing", *Optimization Letters*, 4:3 (2010) 347-358
36. P.-J. Wan, D.-Z. Du, P.M. Pardalos, and W. Wu, "Greedy approximations for minimum submodular cover with submodular cost", *Computational Optimization and Applications* vol 45 no 2 (2010) 463-474.
37. Donghyun Kim, Zhao Zhang, Xianyue Li, Wei Wang, Weili Wu, and Ding-Zhu Du, "A better approximation algorithm for computing connected dominating sets in unit ball graphs", *IEEE Transactions on Mobile Computing*, 9:8 (2010) 1108-1118.
38. Jieun Yu, Heejun Roh, Jun Cao, Sangheon Pack, Wonjun Lee, Ding-Zhu Du, Sangjin (Stephen) Hong, "Topology control for increasing connectivity in cooperative wireless ad hoc networks, *IEICE Transactions* 93-B:4 (2010) 1029-1032.

39. Yongxi Cheng, Ding-Zhu Du, Ker-I Ko, and Guohui Lin, "On the parameterized complexity of pooling design", *Journal of Computational Biology*, 19:11 (2009) 1-9.
40. Yongxi Cheng, Ding-Zhu Du, and Guohui Lin, "On the upper bounds of the minimum number of rows of disjunct matrices", *Optimization Letters*, 2:3 (2009) 297-302.
41. Zhao Zhang, Xiaofeng Gao, Weili Wu and Ding-Zhu Du, "A PTAS for minimum connected dominating set in 3-dimensional wireless sensor networks", *Journal of Global Optimization*, 45:3 (2009) 451-458.
42. Feng Wang, My T. Thai, and Ding-Zhu Du, "2-connected virtual backbone in wireless networks *IEEE Transactions on Wireless Communications*, 8:3 (2009) 1230-1237.
43. Donghyun Kim, Yiwei Wu, Yingshu Li, Feng Zou, and Ding-Zhu Du, "Constructing minimum connected dominating sets with bounded diameters in wireless networks", *IEEE Transactions on Parallel and Distributed Systems*, 20:2 (2009) 147-157.
44. M. T. Thai, R. Tiwari, and D.-Z. Du, "On construction of virtual backbone in wireless ad hoc networks with unidirectional links", *IEEE Transactions on Mobile Computing*, 7:8 (2008) 1-12.
45. Yongxi Cheng and Ding-Zhu Du, "New constructions of one and two stage pooling designs", *Journal of Computational Biology*, 15:2 (2008) 195-205.
46. L. Ma, A.Y. Teymorian, K. Xing and D.-Z. Du, "An one-way function based framework for pairwise key establishment in sensor networks", *International Journal of Security and Networks*, 3:4 (2008) 217-225.
47. Feng Wang, My T. Thai, Yingshu Li, Xiuzhen Cheng, and Ding-Zhu Du, "Fault tolerant topology control for one-to-all and all-to-one communications in wireless networks", *IEEE Transactions on Mobile Computing*, 7 (2008) 322-331.
48. Xiuzhen Cheng, Ding-Zhu Du, Lusheng Wang and Baogang Xu, "Relay sensor placement in wireless sensor networks", *ACM Wireless Networks*, 14(3) (2008) 347-355.
49. Yongxi Cheng and Ding-Zhu Du, "Efficient constructions of disjunct matrices with applications to DNA screening", *Journal of Computational Biology*, 11 (2007) 1208-1216.
50. My T. Thai, Feng Wang, Dan Liu, Shiwei Zhu, and Ding-Zhu Du, "Connected dominating sets in wireless networks with different transmission ranges", *IEEE Transactions on Mobile Computing*, 6 (2007) 721-730
51. My T. Thai, Zhipeng Cai, and Ding-Zhu Du, "Genetic networks: processing data, regulatory network modeling, and their analysis", *Optimization Methods and Software*, 22 (2007) 169-185.
52. Yingshu Li, My T. Thai, Feng Wang and Ding-Zhu Du, "On the construction of a strongly connected broadcast arborescence with bounded transmission delay", *IEEE Transactions on Mobile Computing*, 5:10 (2006) 1460-1470.

53. Ding-Zhu Du Frank K. Hwang, Weili Wu and Ty Znati, "A new construction of transversal designs", *Journal of Computational Biology*, 13 (2006) 990-995.
54. Scott C.-H. Huang, Maggie X. Cheng and Ding-Zhu Du, "GeoSENS: geo-based sensor network secure communication protocol", *Computer Communication*, 29:4 (2006) 456-461.
55. My T. Thai and Ding-Zhu Du, "Connected dominating sets in disk graphs with bidirectional links", *IEEE Communications Letters*, 10:3 (2006) 138-140.
56. Ionut Cardei, Mihaela Cardei, Lusheng Wang, Baogang Xu, Ding-Zhu Du, "Optimal relay location for resource-limited energy-efficient wireless communication", *J. Global Optimization*, 36:3 (2006) 391-399.
57. My T. Thai, Yingshu Li and Ding-Zhu Du, "A combination of wireless multicast advantage and hitch-hiking", *IEEE Communications Letters*, 9:12 (2005) 1037-1039.
58. Mihaela Cardei and Ding-Zhu Du, "Improving wireless sensor network lifetime through power aware organization", *ACM Wireless Networks*, 11:3 (2005) 333-340.
59. Maggie Xiaoyan Cheng, David H.-C. Du, Ding-Zhu Du, "Location management in mobile ad hoc wireless networks using quorums and clusters", *Wireless Communications and Mobile Computing*, 5 (2005) 793-803.
60. Yingshu Li, My T. Thai, Feng Wang, Chih-Wei Yi, Pengjun Wan and Ding-Zhu Du, "On greedy construction of connected dominating sets in wireless networks", *Wireless Communications and Mobile Computing* 5:8 (2005) 927-932.
61. Maggie Xiaoyan Cheng, Mihaela Cardei, Jianhua Sun, Xiaochun Cheng, Lusheng Wang, Yinfeng Xu, Ding-Zhu Du, "Topology control of ad hoc wireless networks for energy efficiency", *IEEE Trans. Computers*, 53:12 (2004) 1629-1635.
62. X. Jia, D. Li, X.-D. Hu, W. Wu, D.-Z. Du, "Placement of web-server proxies with consideration of read and update operations on the internet", *Comput. J.*, 46:4 (2003) 378-390.
63. Suixiang Gao, Xiaohua Jia, Chuanhe Huang and Ding-Zhu Du, "An optimization model for placement of wavelength converters to minimize blocking probability in WDM networks", *IEEE Journal of Lightwave Technology*, 21:3 (2003) 684-694.
64. X. Jia, D.-Z. Du, X.-D. Hu, H. Hwang and D. Li, "On the optimal placement of wavelength converters in WDM networks", *Computer Communication*, 26:9 (2003) 986-995.
65. H. Qiao, L. Kang, M. Cardei, D.-Z. Du, "Paired-domination of trees", *Journal of Global Optimization*, 25 (2003) 43-54.
66. L. Kang, H. Qiao, E. Shan, D.-Z. Du, "Lower bounds on the minus domination and k-subdomination numbers", *Theor. Comput. Sci.*, 296 (2003) 89-98.

67. X. Cheng, X. Huang, D. Li, W. Wu, and D.-Z. Du, "A polynomial-time approximation scheme for minimum connected dominating set in ad hoc wireless networks", *Networks*, 42 (2003) 202-208.
68. Y. Jung, H. Park, D.Z. Du, and B.L. Drake, "A decision criterion for the optimal number of clusters in hierarchical clustering", *Journal of Global Optimization*, 25 (2003) 91-111.
69. M. Cardei, D. MacCallum, X. Cheng, M. Min, X. Jia, D. Li, D.-Z. Du, "Wireless sensor networks with energy efficient organization", *Journal of Interconnection Networks*, 3 (2002) 213-229.
70. S. Gao, D.-Z. Du, X.-D. Hu, and X. Jia, "Rivest-Vuillemin conjecture is true for monotone Boolean functions with twelve variable", *Discrete Applied Mathematics*, 253 (2002) 19-34.
71. D.-Z. Du, D. F. Hsu, H.Q. Ngo, and G.W. Peck, "On connectivity of consecutive- d digraphs", *Discrete Math.*, 257:2-3 (2002) 371-384.
72. H.Q. Ngo, D.-Z. Du, and R.L. Graham, "New bounds on a hypercube coloring problem", *Inform. Process. Lett.*, 84:5 (2002) 265-269.
73. D.-Z. Du, F.K. Hwang, X. Jia, and H.Q. Ngo, "Optimal consecutive- k -out-of- n : G cycle for $n \leq 2k + 1$ ", *SIAM J. Discrete Math.*, 15:3 (2002) 305-316
74. D.-Z. Du and H.Q. Ngo, "An extension of DHH-Erds conjecture on cycle-plus-triangle graphs", *Taiwanese J. Math.*, 6:2 (2002) 261-267.
75. H.Q. Ngo and D.-Z. Du, "New construction of non-adaptive and error-tolerance pooling designs", *Discrete Mathematics*, 243 (2002) 161-170.
76. L. Wang and D.-Z. Du, "Approximations for bottleneck Steiner trees", *Algorithmica*, 32 (2002) 554-561.
77. X. Hu, X. Jia, D.-Z. Du, H. Huang and D. Li, "Placement of data replicas for optimal data availability in ring networks", *Journal of Parallel and Distributed Computing*, 61:10 (2001) 1412-1424.
78. G.L. Xue, G.-H. Lin, and D.-Z. Du, "Grade of service Steiner trees in the Euclidean plane", *Algorithmica*, 31 (2001) 479-500.
79. H.-L. Fu, C.-L. Shiue, X. Cheng, D.-Z. Du, and J.M. Kim, "A quadratic integer programming with application in chaotic mappings of complete multipartite graphs", *Journal of Optimization Theory and Applications*, 110 (2001) 545-556.
80. X.-H. Jia, D.-Z. Du, X.-D. Hu, "Integrated algorithms for delay bounded multicast routing and wavelength assignment in all optical networks", *Computer Communications*, 24 (2001) 1390-1399.

81. L. Ruan, D.-Z. Du, X. Hu, X. Jian, D. Li, and Z. Sun, "Converter placement supporting broadcast in WDM networks", *IEEE Transactions on Computers*, 50 (2001) 750-758.
82. X.-D. Hu, X. Jia, D.-Z. Du, and F.K. Hwang, "Monotone routine in rearrangeable Multirate Clos networks", *Journal of Parallel and Distributed Systems*, 61:9 (2001) 1382-1388.
83. D.S. Kim and D.-Z. Du, "Multirate multicast Clos networks", *Theoretical Computer Science*, 261 (2001) 241-251.
84. X. Jia, D.-Z. Du, X. Hu, M. Lee, and J. Gu, "Optimization of wavelength assignment for QoS multicast in WDM networks", *IEEE Transactions on Communications*, 49 (2001) 341-350.
85. D.-Z. Du, F.K. Hwang, Y. Jung, and H. Ngo, "Optimal consecutive- k -out-of- $(2k + 1)$: G cycle", *Journal of Global Optimization*, 19 (2001) 51-60.
86. D. Chen, D.-Z. Du, X. Hu, G.-H. Lin, L. Wang, and G. Xue, "Approximations for Steiner trees with minimum number of Steiner points", *Journal of Global Optimization*, 18 (2000) 17-33.
87. G.-H. Lin, D.S. Kim, and D.-Z. Du, "Strictly nonblocking multirate Close networks", *Information*, 3:3 (2000).
88. D.S. Kim and D.-Z. Du, "Performance of Split Routing Algorithms for Three-Stage Multicast Networks", *IEEE-ACM Transactions on Networking*, 8:4 (2000) 526-534.
89. D. Kim, D.-Z. Du, and P.M. Pardalos, "A coloring problem in n -cube", *Discrete Applied Mathematics*, 103 (2000) 307-311.
90. S. Gao, W. Wu, D.-Z. Du, and X. Hu, "Rivest-Vuillman conjecture on monotone Boolean functions is true for ten variables", *Journal of Complexity*, 15 (1999) 526-536.
91. F. Cao, D.-Z. Du, F.D. Hsu, S.-H. Teng, "Fault tolerance properties of pyramid networks", *IEEE Trans. Comput*, 48 (1999) 88-93.
92. J. Gu, Q. Gu, and D.-Z. Du, "On optimizing the satisfiability (SAT) problem", *Journal of Computer Science and Technology*, 14:1 (1999) 1-17.
93. F. Cao, D.-Z. Du, S. Han, D. Kim, and T. Yu, "Line digraph iterations and diameter vulnerability", *Taiwanese Journal of Mathematics*, 3 (1999) 281-290.
94. D.-Z. Du, F.K. Hwang, and G. Xue, "Interconnecting highways", *SIAM Discrete Mathematics*, 12 (1999) 252-261.
95. G.-H. Lin, D.-Z. Du, X.-D. Hu, and G. Xue, "On rearrangeability of multirate Clos networks", *SIAM Journal of Computing*, 28 (1999) 1225-1231.

96. D.-Z. Du, B. Gao, F.K. Hwang, and J.H. Kim, "On multirate rearrangeable Clos Networks", *SIAM Journal of Computing*, 28 (1999) 464-471.
97. G.-L. Xue and D.-Z. Du, "An $O(n \log n)$ -average time algorithm for shortest networks under a given topology", *Algorithmica*, 23 (1999) 354-362.
98. A. Borchers, D.-Z. Du, B. Gao, P.-J. Wan, "The k -Steiner ratio in the rectilinear plane", *Journal of Algorithms*, 29 (1998) 1-17..
99. J. Huang, P.-J. Wan, and D.-Z. Du, "Criticality- and QoS multiresource negotiation and adaptation for continuous multimedia", *Real-Time Systems*, 15 (1998) 249-273.
100. F. Cao, D.-Z. Du, D.F. Hsu, L. Hwang, and W. Wu, "Super line-connectivity of consecutive- d digraphs", *Discrete Mathematics* 183 (1998) 27-38.
101. P.C. Fishburn, F.K. Hwang, D.-Z. Du, and B. Gao, "On 1-rate wide-sense nonblocking for 3-state Clos networks", *Discrete Applied Mathematics*, 78 (1997) 75-87.
102. D.-Z. Du, B. Gao, and W. Wu, "A special case for subset interconnection designs", *Discrete Applied Mathematics*, 78 (1997) 51-60.
103. A. Borchers and D.-Z. Du, "The k -Steiner ratio in graphs", *SIAM Journal of Computing*, 26 (1997) 857-869.
104. P.-J. Wan, D.-Z. Du, and R.L. Graham, "On the Steiner ratio in dual normed plane", *Discrete Mathematics*, 171 (1997) 261-275.
105. P.-J. Wan and D.-Z. Du, "An $(\log_2 3 + 1/2)$ -competitive algorithm for the counterfeit coin problem", *Discrete Mathematics*, 163 (1997) 173-200.
106. D.-Z. Du and W.D. Smith, "Three disproofs for Gilbert-Pollak conjecture in high dimensional spaces", *Journal of Combinatorial Theory*, 74:1 (1996) 115-130.
107. D.-Z. Du, D.F. Hsu, and Y.D. Lyuu, "On the diameter vulnerability of Kautz digraphs", *Discrete Mathematics*, 151 (1996) 81-85.
108. J. Gu, Q.-P. Gu, and D.-Z. Du, "Convergence properties of optimization algorithms for the SAT problem", *IEEE Transactions on Computers*, 45:2 (1996) 209-219.
109. D.-Z. Du, "On component-size bounded Steiner trees", *Discrete Applied Mathematics*, 60 (1995) 131-140.
110. B. Gao, D.-Z. Du, and R.L. Graham, "A tight lower bound for the Steiner ratio in Minkowski planes", *Discrete Mathematics*, 142 (1995) 49-63.
111. D.-Z. Du and D.F. Kelley, "On complexity of subset interconnection designs", *Journal of Global Optimization*, 6 (1995) 193-205.
112. D.-Z. Du, "On greedy heuristics for Steiner minimum trees", *Algorithmica*, 13 (1995) 381-386.

113. D.-Z. Du, G.-L. Xue, S.-Z. Sun, and S.-W. Cheng, "Modifications of competitive group testing", *SIAM J. Computing*, 23:1 (1994) 82-96.
114. D.-Z. Du, F.K. Hwang, Y.J. Zhang and Odlysko, "Minimal-distance routing for KYK-LOS II", *Networks*, 24 (1994) 103-108.
115. D.-Z. Du and P.M. Pardolas, "A continuous version of a result of Du and Hwang", *Journal of Global Optimization*, 5 (1994) 127-129.
116. D.-Z. Du and H. Park, "On competitive group testing", *SIAM Journal of Computing*, 23 (1994) 1019-1025.
117. D.-Z. Du and F.K. Hwang, "Optimal assemblies of consecutive-2 link systems", *Probabilities in Industry and Information Theory*, 8 (1994) 511-520.
118. D.-Z. Du, D.F. Hsu and F.K. Hwang, "Hamiltonian property of consecutive-d digraphs", *Mathematical and Computer Modelling*, 17 (1993) 61-63.
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5. Jiangtao Zhang, Shi Chen, Hejiao Huang, Xuan Wang, Ding-Zhu Du: Dynamic Resource Provision for Cloud Broker with Multiple Reserved Instance Terms. **ICA3PP'2015** (1): 339-356
6. James Willson, Zhao Zhang, Weili Wu, Ding-Zhu Du: Fault-tolerant coverage with maximum lifetime in wireless sensor networks, **IEEE INFOCOM 2015**.
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13. X. Jia, D. Li, and D.-Z. Du, QoS topology control in ad hoc wireless networks, **IEEE INFOCOM 2004**.
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15. Xiaohua Jia, Deying Li, Xiao-Dong Hu, Ding-Zhu Du: Placement of Read-Write Web Proxies in the Internet. **ICDCS 2001**: 687-690.
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19. Ker-I Ko, Timothy J. Long, Ding-Zhu Du: A Note on One-Way Functions and Polynomial-Time Isomorphisms. **STOC 1986**: 295-303.

III. CONTRIBUTIONS TO EDUCATION

Ph. D. Advised in Department of Computer Science, University of Texas at Dallas

- Nassim Sohaee (Summer 2009), Dissertation: Optimization in design of underwater sensor networks, (Senior Lecture at *University of Texas at Dallas*, USA).
- Shan Shan (Spring 2010, co-advised with Weili Wu), Dissertation: Some operations in multi-channel wireless communications and social network.
- Xiaofeng Gao (Spring 2010, co-advised with Weili Wu), Dissertation: Data broadcast and data management in wireless communications, (Associate Professor at *Shanghai Jiaotong University*, USA).
- Donghyun Kim (Spring 2010, co-advised with Weili Wu), Dissertation: Construction of Virtual Backbone and Clusters in Wireless Networks, (Assistant Professor at *Kennesaw State University*, USA).
- Feng Zou (Spring 2010, co-advised with Weili Wu), Dissertation: Coverage and connectivity : algorithm, analysis and application.

- Zhong Wang (Fall 2010, co-advised with Bhavani Thuraisingham), Dissertation: Complexity results in secure wireless networks.
- James Willson (Spring 2011, co-advised with Weili Wu), Dissertation: Design and analysis of approximation algorithms for network optimization problems, (Senior Lecture at *University of Texas at Dallas*, USA).
- Zaixin Lu (Spring 2013, co-advised with Weili Wu), Dissertation: Data retrieval for multi-item requests in the multi-channel wireless broadcasting environments, (Assistant Professor at *Marywood University*, USA).
- Lidan Fan (Spring 2014, co-advised with Bhavani Thuraisingham) Dissertation: Rumor blocking and influence diffusion in social networks, (Lecture at *University of Kansas*, USA).
- Yuqing Zhu (Spring 2014, co-advised with Weili Wu) Dissertation: Optimization in social networks, (Assistant Professor at *California State University at Los Angeles*, USA).
- Lidong Wu (Spring 2014, co-advised with Weili Wu), Dissertation: Small sensor and big data, (Assistant Professor at *University of Texas at Tyler*, USA).
- Xuming Zhai (Spring 2015), Dissertation: Inference problems in social networks, (Google, USA).
- Jun Liang (Fall 2015), Dissertation: Studies on influence diffusion in social networks, (SAP, USA).
- Joong Lyul Lee (Fall 2015), Dissertation: Efficient algorithms on wireless ad hoc networks and social networks, (Assistant Professor, *University of North Carolina at at Pembroke*, USA).

Ph. D. Advised in Department of Computer Science and Engineering, University of Minnesota

- Bhaskar Dasgupta (Fall 1994), Dissertation: Function approximation and learning by neural networks, (Professor, Department of Computer Science, *University of Illinois at Chicago*, USA), Career Award Winner.
- Dean F. Kelley (Fall 1994), Dissertation: Multi-phase spanning networks, (Chair for Department of Integrated Engineering, *Minnesota State University at Mankato*, USA).
- Albert Borchers (Spring 1996), Dissertation: Approximate solutions to the Steiner tree problem.
- Biao Gao (Spring 1997), Dissertation: Nonblocking 3-stage Clos networks, (CISCO, USA).
- Peng-Jun Wan (Spring 1997), Dissertation: Multichannel lightware networks, (Professor at *Illinois Institute of Technology*, USA), IEEE Fellow.

- Feng Cao (Spring 1997), Dissertation: Designs for wavelength division multiplexing lightwave networks with tunable transceivers, (Deputy Director of network at China mobile US research center, USA).
- Dongsoo Kim (Fall 1998), Dissertation: Multicast on three-stage Clos switching networks, (Associate Professor, Department of Electrical Engineering, *Indiana University Purdue University at Indianapolis*, USA).
- Quanzhan Zheng (Spring 2001), Dissertation: Spokane : integrating speech technology into gaming domain Director for Baidu baidu.com Research, China.
- Donghui Chen (Spring 2001), Dissertation: Optimizations in network design, (Sycamore, USA).
- Shituo Han (Spring 2001), Dissertation: Fault-tolerant transmission delay and transmission reliability in interconnection networks, (High Level Manage of Xiecheng, China).
- Bing Lu (Spring 2001), Dissertation: Several problems in VLSI physical design automation, (Cadence, USA).
- Yunjae Jung (co-advisor with Haesun Park, Spring 2001), Dissertation: Design and evaluation of clustering criterion for optimal hierarchical agglomerative clustering, (Sumsung, Korea).
- Lu Ruan (Spring 2001), Dissertation: Multicast and broadcast routing in WDM optical networks, (Associate Professor, Department of Computer Science, *Iowa State University*, USA), Career Award Winner.
- Hung Quang Ngo (Spring 2001), Dissertation: Issues in interconnection networks, (Professor, Department of Computer Science and Engineering, *State University of New York at Buffalo*, USA), Career Award Winner.
- Joonmo Kim (Fall 2001), Dissertation: Approximations for some network optimization problems, (Associate Dean at *Dankook University*, South Korea).
- Xiuzhen Cheng (Spring 2002), Dissertation: Issues in ad hoc wireless networks, (Professor, Department of Computer Science, *George Washington University*, Washington DC, USA), Career Award Winner, IEEE Fellow.
- Zhigang Gong (Spring 2003), Dissertation: Resource management and allocation in computer and communication networks.
- Ionut E. Cardei (Spring 2003), Dissertation: Resource management in wireless networks (Associate Professor, Department of Computer Science and Engineering, *Florida Atlantic University*, USA).
- Xiao Huang (Spring 2003) Dissertation: Routing protocols in ad hoc wireless networks, (3M, USA).

- Mihaela Cardei (Spring 2003), Dissertation: Resource efficient approaches in wireless networking, (Professor, Department of Computer Science and Engineering, *Florida Atlantic University*, USA), Creer Award Winner.
- Maggie Xiaoyan Cheng (Summer 2003), Dissertation: Resource efficiency in ad hoc wireless networks: problems and solutions, (Associate Professor, Department of Computer Science, *University of Missouri-Rolla*, USA).
- Yan Huang (2003, co-advisor with S. Shekhar) Dissertation: Mining co-location patterns from large spatial datasets, (Professor and Associate Dean at *University of North Texas*, USA).
- Scott Chih-Hao Huang (Summer 2004), Dissertation: New constructions on broadcast encryption and key pre-distribution schemes, (Assistant Professor at *Tsinghua University*, Taiwan).
- Manki Min (Summer 2004), Dissertation: Resource efficiency in wireless ad hoc networks, (Associate Professor, Department of Computer Science, *South Dakota State University*, USA).
- Haizhou Chen (Summer 2004). Dissertation: Static timing analysis with false paths and combinational loops, (Marvell, USA).
- Xiaoyu Wu (Summer 2004), Dissertation: Combinatorial group testing with error-tolerance property, (MicroSoft, USA).
- Yingshu Li (2005, co-advisor with J. Srivastava), Dissertation: Energy Management in wireless networks, (Associate Professor, *George State University*, USA), Career Award Winner.
- Ying Zhao (2005, co-advisor with G. Karypis), Dissertation: Criterion functions for document clustering, (Associate Professor at *Tsinghua University*, Beijing, China).
- My Thai (Fall, 2005), Dissertation: Energy efficiency in wireless sensor networks, (Professor, at *University of Florida*, USA), Career Award Winner.
- Feng Wang (Fall, 2005), Dissertation: Optimal design of modulators for oversampled converters, Associate Professor, *Arizona State University*, USA.
- David MacCallum (Spring, 2007), Dissertation: Pooling design algorithms based on group testing theory.
- Shiwei Zhu (Spring, 2009), Dissertation: Connected dominating set in wireless ad hoc networks.

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- Yanfeng Xu (Spring 1992), Professor at Department of Management Science, *Xi'an Jiaotong University*, China.

- Shiquan Wu (Spring 1992).
- Guohui Lin (Fall 1997), Professor, Department of Computer Science, *University of Alberta*, Canada.
- Shuixiang Gao (Spring 1998), Professor and Vice President at *Graduate School, Chinese Academy of Sciences*, China.
- Haizhong Shi (Spring 1998), Professor at *Northwest Normal University*, Lanzhou, China.

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- Lihui Hwang (Spring 1994); Lei Jiang (Spring 1996); Jianhua Zhang (Spring 1996) (Ph.D. in Mathematics); Jie Yun (Spring 1996) (Ph.D. in Mathematics); Dengfeng Jiang (Spring 1997); Zhe Yang (Spring 1997); Jun Han (Spring 1997); Chugui Li (Spring 1997) (Ph.D. in Biology); Lii-Perng Liou (Spring 1997) (Ph.D. in Mathematics); Jiansong Zhang (Spring 1997); Yong Liu (Spring 1997) (Ph.D. in Mathematics); You Wang (Summer 1997); Xin Guo (Summer 1997); Dayong Jin (Spring 1998); Wei Han (Spring 1998); Shaoping Zhou (Spring 1998); Ting Yu (Spring 1998) (Ph.D. from UIUC and Associate Professor at *North Carolina State University*, USA); Dong Ma (Spring 1998); Mei Ji (Summer 1998); Limei Wu (Summer 1998); Shibin Li (Summer 1998); Junhong Cui (Summer 1999) (Ph.D. from UCLA, Professor at *University of Connecticut*, USA); Fangge Liu (Spring 2000); Xiaofei Diao (Spring 2000); Ying Zhe (Spring 2000); Hailan Zheng (Spring 2000); Yiyun Chen (Fall 2000); Hongyi Wang (Fall 2000); Bin Chen (Fall 2000) (Ph.D. in Chemistry); Arnold Mayaka (Fall 2000); Kebiao Yuan (Spring 2001); Jinzhu Yu (Spring 2001); Fan Yang (Spring 2001); Jianqiang Li (Spring 2001); Wei Chen (Summer 2001); Yonglin Ren (Fall, 2001) (Ph.D. in Calson Business School); Shiwei Zhu (Fall, 2001); Min Wei (Fall, 2001) (Ph.D. in Biology); Rong Wu (Spring, 2002); Li Lu (Spring, 2003); Raghuram Lanka (Spring, 2003); Projjwal Ghosh (Fall, 2003); Vamsee Venuturumilli (Fall, 2003).

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