

List of Publications of D. J. Guan

(A) Journal Papers

1. Greg N. Frederickson and **D. J. Guan**. Preemptive ensemble motion planning on a tree. *SIAM Journal on Computing*, 21(6):1130–1152, December 1992.
2. Greg N. Frederickson and **D. J. Guan**. Nonpreemptive ensemble motion planning on a tree. *Journal of Algorithms*, 15(1):29–60, July 1993.
3. Z. C. Li, T. T. Lu, **D. J. Guan**, and C. B. Yang. Boundary approximation methods for solving eigenvalue problems. *Zeitschrift für Angewandte Mathematik und Mechanik*, 76:455–456, 1996.
4. **D. J. Guan** and Xuding Zhu. A coloring problem for weighted graphs. *Information processing Letters*, 61(2):77–81, January 1997.
5. **D. J. Guan**. Routing a vehicle of capacity greater than one. *Discrete Applied Mathematics*, 81(1):41–57, January 1998.
6. **D. J. Guan**. An optimal message routing algorithm for double-loop networks. *Information Processing Letters*, 65(5):255–260, March 1998.
7. **D. J. Guan** and Xuding Zhu. Multiple capacity vehicle routing on paths. *SIAM Journal on Discrete Mathematics*, 11(4):590–602, November 1998.
8. **D. J. Guan**. Generalized gray codes with applications. *Proceedings of the National Science Council, Part A: Physical Science and Engineering*, 22(6):841–848, November 1998.
9. **D. J. Guan**, Z. C. Li, Y. L. Chen, and J. H. Chuang. Wire-frame method for blending surface design. *Proceedings of the National Science Council, Part A: Physical Science and Engineering*, 23(1):20–30, January 1999.
10. **D. J. Guan** and Xuding Zhu. Game chromatic number of outerplanar graphs. *Journal of Graph Theory*, 30(1):67–70, January 1999.
11. Chun-Yen Chou, **D. J. Guan**, and Kuei-Lin Wang. A dynamic fault-tolerant message routing algorithm for double-loop networks. *Information Processing Letters*, 70(6):259–264, June 1999.

12. **D. J. Guan**, Chun-Yen Chou, and Chiou-Wei Chen. Computational complexity of similarity retrieval in pictorial database. *Information Processing Letters*, 75(3):113–117, August 2000.
13. Tzong-Chen Wu, Shih-Chan Huang, and **D. J. Guan**. Delegated multi-signature scheme with document decomposition. *Journal of Systems and Software*, 55(3):321–328, January 2001.
14. Yu-Liang Liu, Yue-Li Wang, and **D. J. Guan**. An optimal fault-tolerant routing algorithm for double-loop networks. *IEEE Transactions on Computers*, 50(5), May 2001.
15. Chun-Yen Chou, **D. J. Guan**, and Jiun-Ming Chen. A systematic construction of a q_{2^k} -module in TTM. *Communications in Algebra*, 30(2):551–562, 2002.
16. W. C. Yang, **D. J. Guan**, and C. S. Lai. Algorithm of asynchronous binary signed-digit recording on fast multi-exponentiation. *Applied Mathematics and Computation*, 167(1):108–117, 2005.
17. W. C. Yang, **D. J. Guan**, and C. S. Lai. Fast multi-computations with integer similarity strategy. In Serge Vauenay, editor, *Proceedings of the Eighth International Workshop on Theory and Practice in Public-key Cryptography*, pages 138–153. Springer, January 2005. LNCS 3386.
18. W. C. Yang, **D. J. Guan**, and C. S. Lai. Fast multi-computation with asynchronous strategy. *IEEE Transactions on Computers*, 56(2):234–242, February 2007.
19. Chun-I Fan, **D. J. Guan**, Chih-I Wang, and Dai-Rui Lin. Cryptanalysis of Lee-Hwang-Yang blind signature scheme. *Computer Standards & Interfaces*, 31(2):319–320, February 2009.
20. Dai-Rui Lin, Chih-I Wang, and **D. J. Guan**. A forward-backward secure signature scheme. *Journal of Information Science and Engineering*, 26(6):2319–2329, November 2010.
21. Dai-Rui Lin, Chih-I Wang, Zhi-Kai Zhang, and **D. J. Guan**. A digital signature with multi-subliminal channels and its applications. *Computers and Mathematics with Applications*, 60(2):276–284, July 2010.
22. Dai-Rui Lin, Chih-I Wang, and **D. J. Guan**. Efficient vehicle ownership identification scheme based on triple-trapdoor chameleon hash function. *Journal of Network and Computer Applications*, 34(1):12–19, January 2011.

23. Chun-I Fan, Wei-Zhe Sun, Chih-I Wang, and D. J. Guan. Efficient and flexible encoding scheme for date attachable electronic cash. *Far East Journal of Applied Mathematics*, 51:141–154, 2011.
24. Dai-Rui Lin, Chih-I Wang, and **D. J. Guan**. An efficient blind verifying for firewall using online/offline signcryption. *Journal of Internet Technology*, 13(4):607–614, July 2012.
25. **D. J. Guan**, Yuan-Jun Wang, and Er-Shuo Zhuang. Quantum key evolution and its applications. *International Journal of Quantum Information*, 10(4):1250044, July 2012.
26. **D. J. Guan** and Yuan-Jun Wang. Information leakage on four-state quantum bits. *Journal of Computational Information Systems*, 8(21):8847–8854, November 2012.
27. **D. J. Guan**, Yuan-Jun Wang, and E. S. Zhuang. A practical protocol for three-party authenticated quantum key distribution. *Quantum Information Processing*, 13(11):2355–2374, November 2014. DOI: 10.1007/s11128-014-0767-1.
28. Chia-Mei Chen, **D. J. Guan**, and Qun-Kai Su. Feature set identification for detecting suspicious URLs using Bayesian classification in social networks. *Information Sciences*, 289(1):133–147, December 2014.
29. Albert Guan and **D. J. Guan**. An efficient and privacy protection communication scheme for smart grid. *IEEE Access*, 8:179047–179054, October 2020.

(B) Selected Conference Papers

1. Greg N. Frederickson and **D. J. Guan**. Ensemble motion planning on a tree. In *Proceedings of the Thirtieth IEEE Symposium on Foundations of Computer Science*, pages 66–71, November 1989.
2. **D. J. Guan**, Chia-Mei Chen, and Jia-Bin Lin. Anomaly based malicious URL detection in instant messaging. In *Proceedings of the Fourth Joint Workshop on Information Security*, (Best Paper Award) 2009.
3. Chia-Mei Chen, **D. J. Guan**, Qun-Kai Su, and Tse-Yao Wang. Malicious URL detection on facebook. In *Proceedings of the Sixth Joint Workshop on Information Security*, (Best Paper Award) 2011.