

## **Mathematics Department 2010 Publication List**

1. Ciesielski, Krzysztof Chris; Udupa, Jayaram K. Affinity functions in fuzzy connectedness based image segmentation I: Equivalence of affinities. *Comput. Vis. Image Underst.*, Vol. 114, Issue 1, pp. 146-154, Academic Press Inc Elsevier Science, San Diego, Jan, 2010.
2. Ciesielski, Krzysztof Chris; Udupa, Jayaram K. Affinity functions in fuzzy connectedness based image segmentation II: Defining and recognizing truly novel affinities. *Comput. Vis. Image Underst.*, Vol. 114, Issue 1, pp. 155-166, Academic Press Inc Elsevier Science, San Diego, Jan, 2010.
3. G. Angle, F. Pertl, M.A. Clarke, J. Smith. Lift augmentation for vertical axis wind turbines, *International Journal of Engineering*, Vol. 4, Issue 5, December 2010, pp. 430-442.
4. Wowczuk, Zenovy S.; Pertl, Emily D.; Clarke, Mary Ann; Smith, James E.; Bjorge, Scott; McNutt, Ross. Complete Command, Control, Communications, Intelligence, Surveillance, and Reconnaissance System for C-130 Aircraft. *J. Aerosp. Comput. Inf. Commun.*, Vol. 7, Issue 6, pp. 179-187, Amer Inst Aeronaut Astronaut, Reston 2010.
5. Darrah, M.; Fuller, E.; and Squire, D. Using Online Context-based Calculus Labs to Motivate Students in an Introduction to Calculus Course. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2010* (pp. 1658-1662). Chesapeake, VA: AACE.
6. Darrah, M.; Fuller, E.; and Miller, D. A Comparative Study of Partial Credit Assessment and Computer-Based Testing. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2010* (pp. 2335-2340). Chesapeake, VA: AACE.
7. Parker, C, Stylinski, C. Darrah M., McAuliffe, C, Gupta, P., and Akbayin, B. (2010). Innovative uses of IT applications in STEM classrooms: A preliminary review of ITEST teacher professional development. *Journal of Technology and Teacher Education*, 18(2), 203-230. Chesapeake, VA: AACE.
8. Humbert, R., Darrah, M. and Finstein, J. Applying a Heuristic Approach to Developing a User Interface for College-Level Virtual Physics Labs. (2010). In *Proceedings of EdMedia Conference*, June 28 - July 2, 2010, Toronto, CA.
9. Giorcelli, R. , Lee, C.P and Darrah, M. (2010) Finding an Answer to the Enrollment Crisis in Computing: An ExPEDITE Project Case Study. In *Proceeding of Decision Science Institute 2010 Annual Meeting*, November

- 20-23, 2010, San Diego, CA.
10. Q. Wu; Fuller, E.; and Zhang, CQ. Graph Model for Pattern Recognition in Text, with Q. Wu and CQ Zhang, *Studies in Computational Intelligence*, Volume 288, 2010, Springer.
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  12. Xingqin Qi; Christensen, K.; Duval, R.; Fuller, E.; Spahiu, A.; Qin Wu; Cun-Quan Zhang. "A Hierarchical Algorithm for Clustering Extremist Web Pages," *Advances in Social Networks Analysis and Mining (ASONAM)*, 2010 International Conference on Advances in Social Network Analysis, vol., no., pp.458-463, 9-11 Aug. 2010 doi: 10.1109/ASONAM.2010.81.
  13. Ganser, Gary H.; Hewett, Paul. An Accurate Substitution Method for Analyzing Censored Data. *J. Occup. Environ. Hyg.*, Vol. 7, Issue 4, pp. 233-244, Taylor & Francis Inc, Philadelphia, 2010.
  14. Elias, U.; Gingold, H. Approximation of the Jacobi Polynomials and the Racah Coefficients. *Rocky Mt., J. Math.*, Vol. 40, Issue 3, pp. 849-872, Rocky Mt Math Consortium Tempe, 2010.
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  18. Cappelleri, David J.; Halasz, Adam; Sul, Jai-Yoon; Kim, Tae Kyung; Eberwine, James; Kumar, Vijay. Toward a Fully Automated High-Throughput Phototransfection System. *JALA*, Vol. 15, Issue 4, pp. 329-341, Elsevier Inc, San Diego, Aug 2010.
  19. Radhakrishnan, Krishnan; Halasz, Adam; Vlachos, Dion; Edwards, Jeremy S. Quantitative understanding of cell signaling: the importance of membrane organization. *Curr. Opin. Biotechnol.*, Vol. 21, Issue 5, pp. 677-682, Current Biology Ltd., London, Oct. 2010.
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  28. Yan, Jin; Yao, Senmei; Lai, Hong-Jian; Gu, Xiaofeng. Group Connectivity in Products of Graphs, *International Journal of Algebra*, 4 (2010) 1185-1200.
  29. Lai, Hong-Jian; Li, Ping; Liang, Yanting; Xu, Jingquan. Reinforcing a matroid to have  $k$  disjoint bases, *Applied Mathematics*, 1 (2010), 244-249.
  30. Hobbs, A; Kannan, L; Lai, Hong-Jian; Lai, H. Y.; Weng, Guoqing. Balanced and 1-balanced Graph Constructions, *Discrete Applied Math.*, 158 (2010) 1511-1523.
  31. Lai, Hong-Jian; Xiong, Liming; Yan, Huiya; Yan, Jin. Every 3-Connected Claw-Free  $Z(8)$ -Free Graph Is Hamiltonian. *J. Graph Theory*, Vol. 64, Issue 1, pp. 1-11, John Wiley & Sons Inc, Hoboken, May 2010.
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35. Moseley, James. "The Discrete Agglomeration Model: Solution of the Fundamental Agglomeration Problem with a Time-Varying Kernel", *Far East Journal of Applied Mathematics*. 2010, Volume 47, Number 1, 2010, pp 17-34.
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37. Pascal, M., and Bernstein, J. "The Killer Problem," *Proceedings of the thirty-second Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education*, October 28-31, 2010.
38. Luczak, Tomasz, and Pralat, Pawel. Chasing Robbers on Random Graphs: Zigzag Theorem, *Random Struct. Algorithms*. Vol. 37 Issue 4, pp. 516-524, John Wiley & Sons Inc., Hoboken, Dec. 2010.
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41. Gaspers, Serge; Messinger, Margaret-Ellen; Nowakowski, Richard J.; Pralat, Pawel. Parallel cleaning of a network with brushes. *Discret Appl. Math.*, Vol. 158, Issue 5, pp. 467-478, Elsevier Science Bv, Amsterdam, 6-Mar2010.
42. A. Bonato, J. Janssen, and P. Pralat, The geometric protean model for on-line social networks, *Proceedings of the 7th Workshop on Algorithms and Models for the Web-Graph (WAW2010)*, *Lecture Notes in Computer Science 6516*, Springer, 2010, 110-121.
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44. A. Bonato, P. Gordinowicz, and P. Pralat, Bounds and constructions for n-e.c. tournaments, *Contributions to Discrete Mathematics* 5 (2010), 52-66.

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46. A. Bonato, J. Janssen, and P. Pralat, A Geometric Model for On-line Social Networks, 3rd Workshop on Online Social Networks (WOSN 2010), 7pp.
47. J. Janssen, P. Pralat, and R. Wilson, Estimating node similarity from co-citation in a spatial graph model, *Proceedings of the 2010 ACM Symposium on Applied Computing (SAC) -- Special Track on Self-organizing Complex Systems, 2010*, 1329-1333.
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