

List of Publications of Prasanta K. Jana

IEEE Senior Member

Books / Conf. Proceedings

1. P. K. Jana et al. *Recent Advances on Information Technology, (Proceedings of the National Seminar (RAIT-2007))*, Feb. 26-27, 2007, ISM University, Dhanbad), Allied Publishers Pvt. Ltd., New Delhi, 2007.
2. C. Kumar, S. Mukhopadhyay, G. P. Biswas and P. K. Jana, *Recent Advances on Information Technology, (Proceedings of the National Seminar (RAIT-2009))*, Allied Publishers Pvt. Ltd., New Delhi, 2009.

International Journals / Edited Volumes

3. K. T. Lucas and P. K. Jana “Sorting and routing on OTIS-Mesh of Trees,” Appearing in June issue of *Parallel Processing Letters (World Scientific)*, 2010.
4. S. K. Jha, P. K. Jana, R. Yadav, B. Sinha, S. Srivastava, “Improved algorithms for balanced ring formation for fault tolerance in a 2D-Mesh,” Appearing in *Intl. Journal of Computers and Applications (ACTA press)*, Vol. 32, No. 3 in 2010.
5. S. K. Jha and P. K. Jana “Parallel Algorithm for Time Series Based Forecasting on OTIS-Mesh” *International Journal of Computer Applications* (0975 - 8887), Vo. 1, No. 26, pp. 73-80, 2010.
6. N. Kumar, R. Kumar, D. K. Mallick and P. K. Jana, “Hamiltonicity of a General OTIS Network,” appearing in *Lecture Notes in Computer Science, LNCS 5935 (Springer), Heidelberg*, pp. 459–465, 2010.
7. P. K. Jana and Azad Naik, “An upper bound analysis for conflict graph construction in a galled tree problem” *Appearing in Intl. Journal of Advanced Computer Engineering*.
8. P. K. Jana, Mukha Prasad and Ayush Raj, “An upper bound analysis for conflict graph construction in a galled tree problem” Appearing in *Intl. Journal of Advanced Computer Engineering*.
9. K. T. Lucas and P. K. Jana “Parallel algorithms for finding polynomial roots on OTIS-Torus,” *J. of Supercomputing (Springer)* DOI 10.1007/s11227-009-0312-7, (available online from 7 July 2009).

10. P. K. Jana and Koushik Sinha "Permutation Algorithms on Optical Multi-Trees," *Computers and Mathematics with Applications (Elsevier Science)*, Vol. 56, 2008, pp. 2656–2665.
11. K. T. Lucas, D. K. Mallick and P. K. Jana "Parallel algorithm for conflict graph on OTIS triangular array," *Lecture Notes in Computer Science, LNCS 4904, (Springer), Heidelberg*, pp. 274-279, 2008.
12. D. S. Rao, G. N. Kumar, D. K. Mallick and P. K. Jana "Parallel construction of conflict graph for phylogenetic network problem," *Lecture Notes in Computer Science, LNCS 4815 (Springer), Heidelberg*, pp. 398-405, 2007.
13. P. K. Jana, "Polynomial Interpolation and Polynomial Root Finding on OTIS-Mesh," *Parallel Computing (Elsevier Science)*, pp. 301-312, Vol. 32, No. 4, 2006.
14. P. K. Jana and B. P. Sinha "An Improved parallel prefix algorithm on OTIS-Mesh," *Parallel Processing Letters (World Scientific)*, pp. 429-440, Vol. 16, No. 4, 2006.
15. P. K. Jana, "Multimesh of trees with its parallel algorithms," *Journal of System Architectures (Elsevier Science)*, pp. 193-206, Vol. 50, No. 4, 2004.
16. P. K. Jana, B. D. Naidu, S. Kumar, M. Arora, and B. P. Sinha, "Parallel prefix computation on extended multi-mesh network," *Information Processing Letters (Elsevier Science)*, pp. 295-303, Vol. 84, No. 6, October 2002.
17. P. K. Jana, "Forecasting on a tree with additional ring connections," *Advances in Modeling (France)*, pp. 15-24, Vol. 7, No.3, 2002.
18. P. K. Jana and B. P. Sinha, "Fast parallel algorithms for Graeffe's root squaring technique," *Computers and Mathematics with Applications, (Pergamon-Elsevier)*, pp. 71-80, Vol. 35, No. 3, 1998.
19. P. K. Jana, "Polynomial interpolation on a mesh of trees," *Advances in Modeling and Analysis (France)*, pp. 31-38, Vol. 4, No. 1,2, 1999.
20. P. K. Jana and B. P. Sinha, "Fast parallel algorithms for forecasting," *Computers and Mathematics with Applications, (Pergamon-Elsevier)*, pp. 39-49, Vol. 34, No. 9, 1997.
21. P. K. Jana and B. P. Sinha, "Efficient parallel algorithms for Lagrange and Hermite interpolation," *International Journal of Applied Science and Computations (USA)*, pp. 118-136, Vol. 4, No. 2, 1997.
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23. P. S. Bishnu and P. K. Jana, "K-Means algorithm: A survey with special emphasis on microarray data analysis," *Bioinformatics Trends*, pp. 89-96, Vol. 3, No. 4, 2008.
24. P. K. Jana and Nikesh Kumar, "A new parallel algorithm for sequence alignment," *Bioinformatics Trends*, pp. 81-88, Vol. 1, No. 4, 2006.

25. Dheeresh K. Mallick and P. K. Jana, "Parallel Algorithm for General Step of some numeric computations" *Journal of CSI*, pp. 2-9, Vol. 35, No. 4, October, 2005.
26. P. K. Jana, A. S. Brahmachary and V. S. Yagnick "Backtrack solution for finding sorted king sequence in a tournament," *Journal of CSI*, pp. 33-36, Vol. 35, No. 1, 2005.
27. P. K. Jana, K.Srinivas and A. Chattopadhyay, "Parallel generation of Sturm sequence for solving eigen value problem," *Journal of CSI*, pp. 1-7, vol. 31, No. 3, September, 2001.

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29. P. K. Jana and Azad Naik, "An efficient minimum spanning tree based clustering algorithm" *Proc. of Intl. Conf. on Methods and Models in Computer Science (ICM2CS09)*, 14-15 Dec. 2009, JNU, New Delhi, pp. 199-203.
30. K. T. Lucas and P. K. Jana "An Efficient Parallel Sorting Algorithm on OTIS Mesh of Trees," *Proc. IEEE Intl. Advance Computing Conference (IACC'09)* 6-7 March, 2009, Patiala, India, pp. 175-180.
31. D. K. Mallick and P. K. Jana "Matrix Multiplication on OTIS k -ary 2-cube Network," *Proceedings of the International Conf. on Parallel and Distributed Processing Techniques and Applications (PDPTA'08)*, Las Vegas, Nevada, USA, 13-17 July, 2008, pp. 224-228.
32. D. K. Mallick and P. K. Jana "Parallel Prefix on Mesh of Trees and OTIS Mesh of Trees," *Proceedings of the International Conf. on Parallel and Distributed Processing Techniques and Applications (PDPTA'08)*, Las Vegas, Nevada, USA, 13-17 July, 2008, pp. 359-364.
33. D. K. Mallick, K. T. Lucas and P. K. Jana "Parallel Lagrange Interpolation on Augmented Optical Multi-trees (OMULT)," *Proceedings of International Conference on Emerging Applications of IT (EAIT-06)*, Feb. 10-11, 2006, Science City, Kolkata.
34. P. K. Jana, "Parallel Sequence Alignment: A Lookahead Approach," *Pattern Recognition and Machine Intelligence: Lecture Notes in Computer Science (Springer)*, Heidelberg, pp. 636-639, 2005.
35. P. K. Jana, "Polynomial interpolation on OTIS-Mesh optoelectronic computers," *Distributed Computing-IWDC 2004: Lecture Notes in Computer Science (Springer)*, Heidelberg, pp. 373-378, 2004.

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41. Swagta Saha and P. K. Jana, "A Parallel Algorithm for Medial Axis Transformation," *Parallel and Distributed Processing and Applications, Lecture Notes in Computer Science, (Springer)* 2003, pp. 356-361.
42. Kaushik Chakraborty and P. K. Jana, "Parallel Evaluation of Chebyshev Polynomials: A Cyclic Reduction Approach" *Proceedings 3rd International Conference on Information Technology, CIT' 2002*, Bhubaneswar, India, December 21-24, 2002.
43. P. K. Jana, "Fast parallel algorithms on multi-mesh of trees" Recent Advances in Computing and Communications, (*Proceedings of the 8th Intl. Conf. on Adv. Comp. and Comm. (ADCOM '2000)*), December 14-16, 2000, Cochin, India), Bhabani P. Sinha and Rajiv Gupta (Eds.), New Delhi: Tata McGraw-Hill, 2001.
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50. P. K. Jana, "Systolic design and algorithm for generating discrete orthogonal polynomials," *Proceedings 4th Australasian Conference on Parallel and Real-Time Systems (PART '97)*, Newcastle, Australia, September 29-30, 1997.
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