

LLNL Computation Directorate
Book and Refereed Journal Publications for CY 2003

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5. Bremer, P. T., H. Edelsbrunner, B. Hamann, and V. Pascucci. "A topological hierarchy for functions on triangulated surfaces." *IEEE Transactions on Visualization and Computer Graphics*, 2004, to appear.
6. Brezina, M., R. Falgout, S. MacLachlan, T.A. Manteuffel, S.F. McCormick, and J.W. Ruge, "Adaptive Smoothed Aggregation (α SA)," *SIAM Journal on Scientific Computing*, to appear. UCRL-JC-151149.
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15. Cheung, S. S. and A. Zakhor, "Fast Similarity Search and Clustering of Video Sequences on the World Wide Web," accepted, *IEEE Transactions on Multimedia*. UCRL-JC-153464, May 2003.
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28. Fattebert, J. and M. B. Nardelli, "Finite Difference Methods for *ab initio* Electronic Structure and Quantum Transport Calculations of Nanostructures," *Handbook of Numerical Analysis*, Eds. P.H. Ciarlet and J.-L. Lions, Volume X: Special Volume: Computational Chemistry (2003). UCRL-JC-147118.
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