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The AURORA Financial Management System: Model and Parallel Implementation Design

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of objectives are considered. The parallel optimization modules are still in the development phase.

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[6] F. Black, E. Derman and W. Toy, A one-factor model of interest rates and its application to tresury bond options, Financial Analysts Journal 3 (January/February 1990) 33–39.

Google Scholar

[7] M.J. Brennan, E.S. Schwartz and R. Lagnado, Strategic asset allocation, Journal of Economic Dynamics and Control 21 (1997) 1377–1403.

Google Scholar

[8] D.R. Cariño, T. Kent, D.H.Myers, C. Stacy, M. Sylvanus, A.L. Turner,

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- [12] J. Dupacova, Stochastic programming models in banking, Working paper, International Institute for Applied Systems Analysis (1991).
- [13] A. Gupta, G. Karypis and V. Kumar, Highly scalable parallel algorithms for sparse matrix factorization, IEEE Transactions on Parallel and Distributed Systems 8(5) (1997).
- [14] P. Hoel, S. Port and Ch. Stone, *Introduction to Stochastic Processes* (Houghton-Mifflin, Boston, 1972).

Google Scholar

[15] P. Kall and S.W.Wallace, *Stochastic Programming* (Wiley, Chichester, 1994).

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- [20] J.M. Mulvey, Nonlinear network models in finance, in: *Advances in Mathematical Programming and Financial Planning* (JAI Press, 1987).
- [21] J.M. Mulvey, An asset-liability investment system, Interfaces 24 (1994) 22–33.

Google Scholar

[22] J.M.Mulvey, Multi-stage financial planning systems, in: *Operations Research Models in Quantitative Finance*, eds. R.L. D'Ecclesia and S.A. Zenios (Physica-Verlag, 1994) pp. 18–35.

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stochastic global optimization, Mathematical Programming 83 (1998) 425-450.

Google Scholar

[28] W. Ogryczak and A. Ruszczy´nski, From stochastic dominance to mean-risk models: Semideviations as risk measures, European Journal of Operations Research 116 (1999) 33–50.

Google Scholar

[29] G.Ch. Pflug, Risk-reshaping contracts and stochastic optimization, Central European Journal of Operations Research 5(3-4) (1998) 205-230.

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- [34] A. Ruszczy'nski, Interior point methods in stochastic programming,
 Technical Report WP-93-8, International Institute for Applied Systems
 Analysis, Laxenburg, Austria (1993).
- [35] A. Ruszczy'nski, Parallel decomposition of multistage stochastic programming problems, Mathematical Programming 58 (1993) 201–228.

Google Scholar

[36] A. Ruszczy´nski, On convergence of an augmented Lagrangian decomposition method for sparse convex optimization, Mathematics of Operations Research 20(3) (1995) 634-656.

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