

## Publication Record – Celso L. Mendes

(Updated on June 2007)

1. Kale,L.V., Bohm,E., **Mendes,C.L.**, Wilmarth,T. & Zheng,G. *Programming Petascale Applications with Charm++*. Chapter in Bader,D. “Petascale Computing”, CRC Press, 2007 (accepted for publication).
2. Chakravorty,S., **Mendes,C.L.** & Kale,L.V. *Proactive Fault Tolerance in MPI Applications via task Migration*. Proceedings of the International Conference on High Performance Computing – HiPC’2006, Bangalore – India, December 2006.
3. Gioachin,F., Sharma,A., Chakravorty,S., **Mendes,C.L.**, Kale,L.V. & Quinn,T. *Scalable Cosmological Simulations on Parallel Machines*. Proceedings of VECPAR’06, Rio de Janeiro – Brazil, July 2006.
4. Chakravorty,S., **Mendes,C.L.**, Kale,L.V., Jones,T., Tauferner,A., Inglett,T.& Moreira,J. *HPC-Colony: Services and Interfaces for Very Large Systems*. Operating Systems Review, Vol.40, No.2, April 2006, pp.43-49.
5. Reed,D.A., Lu,C. & **Mendes,C.L.** *Reliability Challenges in Large Systems*. Future Generation Computer Systems, Vol.29, No.3, February 2006, pp.293-302.
6. Chakravorty,S., **Mendes,C.L.** & Kale,L.V. *Proactive Fault Tolerance in Large Systems*. First Workshop on High Performance Computing Reliability Issues at HPCA-11, San Francisco/CA, February 2005.
7. Reed,D.A. & **Mendes,C.L.** *Intelligent Monitoring for Adaptation in Grid Applications*. Proceedings of the IEEE, Vol. 93, No.2, February 2005.
8. **Mendes,C.L.** & Reed,D.A. *Monitoring Large Systems via Statistical Sampling*. International Journal of High Performance Computing Applications, Vol.18, No.2, Summer 2004, pp.267-277.
9. Cooper,K., **Mendes,C.L.** et al *New Grid Scheduling and Rescheduling Methods in the GrADS Project*. NSF Next Generation Software Workshop at IPDPS’04, Santa Fe/NM, April 2004.
10. Gardner,M., Deng,W., Markham,T.S., **Mendes,C.L.**, Feng,W. & Reed,D.A. *A High-Fidelity Software Oscilloscope for Globus*. GlobusWorld2004, San Francisco/CA, January 2004.
11. Reed,D.A., **Mendes,C.L.** & Lu,C. *Application Tuning and Adaptation*. Chapter in Foster & Kesselman “The Grid: Blueprint for a New Computing Infrastructure”, Second Edition, Morgan Kaufmann, November 2003.

12. Reed,D.A., Lu,C. & **Mendes,C.L.** *Big Systems and Big Reliability Challenges.* Proceedings of the Performance Analysis Minisymposium at ParCo2003, Dresden, Germany, September 2003.
13. Vraalsen,F., Aydt,R.A., **Mendes,C.L.** & Reed,D.A. *Performance Contracts: Predicting and Monitoring Grid Application Behavior.* 2nd IEEE/ACM International Workshop on Grid Computing (GRID2001), Denver/CO, November 2001.
14. Fernandes, S.F., Monteiro, A.M.V. & **Mendes, C.L.** *Parallelism and Images: A Parallelization Experiment for Image Segmentation with an Application for Automatic Classification of Scenes Obtained from Orbital Platforms.* World Multiconference on Systemics, Cybernetics and Informatics, Orlando/FL, July 2000, pp.52-56.
15. Stephany,S., Correa,R.V., **Mendes,C.L.** & Preto,A.J. *Identifying Performance Bottlenecks in a Radiative Transfer Application.* 6th International Conference on Applications of High-Performance Computers in Engineering – HPC’2000, Maui/Hawaii, January 2000.
16. **Mendes,C.L.** & Panetta,J. *Selecting Directions for Parallel RAMS Performance Optimization.* XI Symposium on Computer Architecture - High Performance Computing, Natal, Brazil, September 1999, pp.85-92.
17. **Mendes,C.L.** & Reed,D.A. *Integrated Compilation and Scalability Analysis for Parallel Systems.* The 1998 International Conference on Parallel Architectures and Compilation Techniques - PACT’98, Paris, France, October 1998, pp.385-392.
18. Reed,D.A., Aydt,R.A., DeRose,L., **Mendes,C.L.**, Ribler,R.L., Shaffer,E., Simitci,H., Vetter,J.S., Wells,D.R., Whitmore,S. & Zhang,Y. *Performance Analysis of Parallel Systems: Approaches and Open Problems.* Joint Symposium on Parallel Processing - JSPP, Nagoy, Japan, June 1998, pp.239-256.
19. **Mendes,C.L.** & Reed,D.A. *Automated Scalability Prediction via Data Parallel Compiler Support.* IX Brazilian Symposium on Computer Architecture - High Performance Computing, Campos do Jordao, Brazil, October 1997, pp.349-364.
20. Wanderley-Netto,E.B., **Mendes,C.L.** & Saotome,O. *Uma Arquitetura RISC para Processamento Digital de Sinais.* VIII Brazilian Symposium on Computer Architecture - High Performance Computing, Recife, Brazil, July 1996.
21. **Mendes,C.L.** *Os Iteanos e a Internet.* ITA-Engenharia, Sao Jose dos Campos, Brazil, December 1995.

22. **Mendes,C.L.** *Integrating Message-Passing with Vector Architectures*. VII Brazilian Symposium on Computer Architecture - High Performance Computing, Canela, Brazil, August 1995, pp.151-165.
23. **Mendes,C.L.**, Wang,J. & Reed,D.A. *Automated Performance Prediction and Scalability Analysis for Data Parallel Programs*. CRPC/Rice Workshop on Automatic Data Layout and Performance Prediction, Houston/TX, April 1995.
24. **Mendes,C.L.** *Extending DLXsim for Parallel Architectures*. VI Brazilian Symposium on Computer Architecture - High Performance Computing, Caxambú, Brazil, August 1994.
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27. **Mendes,C.L.** et al *A SIMD System for Image Processing*. II Brazilian Symposium on Computer Graphics and Image Processing, Águas de Lindóia, Brazil, April 1989, pp.246-255.
28. **Mendes,C.L.** *Classificação por Máxima Verossimilhança num Ambiente Maciçamente Paralelo*. V Brazilian Symposium on Remote Sensing, Natal, Brazil, October 1988.
29. **Mendes,C.L.** et al *Arquitetura Paralela para Processamento de Imagens*. First Brazilian Symposium on Computer Architecture - High Performance Computing, Gramado, Brazil, May 1987.
30. Souza,R.C.M., **Mendes,C.L.**, Garrido,J.C.P. & Câmara-Neto,G. *Evolução da Família de Sistemas de Tratamento de Imagens do INPE*. IV Latin-American Symposium on Remote Sensing, Gramado, Brazil, August 1986.
31. **Mendes,C.L.**, & Dutra,L.V. *Sistema Interativo de Análise de Imagens Multiespectrais*. First Symposium of the Brazilian Association of DEC Users, São Paulo, Brazil, October 1983.
32. Câmara-Neto,G., Mascarenhas,N.D.A. & **Mendes,C.L.** *Projeto de Interpoladores em Imagens Digitais por Meio de Janelamento*. 34th Annual Meeting of the Brazilian Society for the Progress of Science, Campinas, Brazil, July 1982.
33. **Mendes,C.L.**, Mascarenhas,N.D.A. & Souza,R.C.M. *Métodos de Interpolação em Imagens: Avaliação de Desempenho*. IV National Congress of Applied and Computational Mathematics, Rio de Janeiro, Brazil, September 1981.

34. **Mendes,C.L.**, Mascarenhas,N.D.A. & Souza,R.C.M. *Métodos de Interpolação para Imagens Multiespectrais*. 33th Annual Meeting of the Brazilian Society for the Progress of Science, Salvador, Brazil, July 1981.