Curriculum Vitae

Pedro Velho

Ph.D. candidate

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Pedro Velho received both degrees B.Sc. in Computer Science in 2004 and M.Sc. in Computer Science in 2006 by the Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS/Brazil). He is currently working in conjuction with Prof. Arnaud Legrand at Grenoble University, France in a Ph.D. thesis upon the simulation and validation of large-scale distributed systems simulation. Pedro Velho is also an active member of Latin America HPC research network staffing the committee of the two main international scientific manifestations in Latin America CLCAR (Conferencia Latino-Americana de Alto-Rendimiento) and SC-Camp (Super Computing Camp). He is an active member of the USS-SimGrid ANR project and the CAPES/Brazil collageship program. His research interest areas are: parallel and distributed computing, performance evaluation and simulation.

Research Interests

Models and Simulation

Large-Scale Distributed Computing

High Performance Computing Applications

Performance Evaluation

Research Projects

MESCAL, INRIA (Rhônes Alpes) Research project

USS-SimGrid, ANR, CNRS

Current Affiliations

Sponsored by CAPES Brazilian government collageship program

Laboratoire d'informatique de Grenoble (LIG)

Université Joseph Fourier (UJF)

Academic History

Currently Ph.D. Candidate, Université de Grenoble, Grenoble University

M.Sc. in Computer Science, Pontifícia Universidade Católica do Rio Grande do Sul, **2006**, Porto Alegre, Brasil

B.Sc. in Computer Science, Pontifícia Universidade Católica do Rio Grande do Sul, **2004**, Porto Alegre, Brasil

Research History

Developer/Researcher at GMAP, Parallel Application Modeling Group at PUCRS

Sponsored by HP/Brazil R&D, **from 2003 to 2006**

Developer/Researcher at GAPH, Hardware Design Support Group at PUCRS

Sponsored by the government FAPERGS initiative, **from 2002 to 2001**

Note: GMAP and GAPH are acronyms derived from their respective Portuguese denominations.

Referred Publications

Donassolo, B., Casanova, H., Legrand, A.,Velho, P., *Fast and Scalable Simulation of Volunteer Computing Systems Using SimGrid*, In proceedings of Workshop in Large Scale Systems and Application Performance, LSAP 2010, in conjuction with HPDC 2010, June, Chicago, USA.

Velho, P., Legrand, A., *Accuracy Study and Improvement of Network Simulation in the SimGrid Framework* , In proceedings of SIMutools'09, 2009, Rome, Italy.

Baldo, L., Cláudio, D. M., Fernandes, L. G., Fernandes, P., Kolberg, M., Velho, P., Webber, T., *Parallel Selfverified Method for Solving Linear Systems*, In proceedings of 7th International Meeting of High Performance Computing for Computational Science - VECPAR, 2006, Rio de Janeiro, Brazil, pages 1-12.

Fernandes, L. G., Bezerra, E., Oliveira, F., Raeder, M., Velho, P., Amaral, L., *Probe Effect Mitigation in the Software Testing of Parallel Systems*, In proceedings of LATW - Latin-American Test Workshop, LATW, 2006, Buenos Aires, Argentina, pages 153-158.

Baldo, L., Castro,M., Fernandes, L. G., Raeder, M., Velho, P., *A Parallel Version for the Propagation Algorithm*, In proceedings of PaCT - International Conference on Parallel Computing Technologies, 2005, Kranoyarsk, Russia, (LNCS 3606), pages 403-412.

Baldo, L., Fernandes, L. G., Roisenberg, P., Velho, P., Webber, T., *Parallel PEPS Tool Performance Analysis Using Stochastic Automata Networks*, In proceedings of Euro-Par, 2004, Pisa, Italy, (LNCS 3149), pages 214-219.

Language skills

English: (reading, writing, speaking) **fluent**
French: (reading, writing, speaking) **fluent**
Spanish: (reading, writing, speaking) **poor**
Portuguese: (reading, writing, speaking) **fluent**