Vicente Helano Feitosa Batista
Born on 8th October 1979
Fortaleza, CE, Brazil
Married

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Curriculum Vitae
Feb/2008

Education

2005 – present
- D.Sc. in Civil Engineering at "Universidade Federal do Rio de Janeiro", supervised by Fernando Luiz Bastos Ribeiro and José Antonio Fontes Santiago, on the subject of *Compact Representations of Simplicial Meshes*, fellowship from the "Conselho Nacional de Desenvolvimento Tecnológico e Científico (CNPq)".

2003 – 2005
- M.Sc. in Civil Engineering at "Universidade Federal do Rio de Janeiro", advised by Fernando Luiz Bastos Ribeiro and José Antonio Fontes Santiago, on the subject of *Generation of Unstructured Tetrahedral Meshes*, fellowship from the "Conselho Nacional de Desenvolvimento Tecnológico e Científico (CNPq)".

1998 – 2003
- Undergraduate in Civil Engineering at "Universidade Federal do Ceará", advised by Antônio Macário Cartaxo de Melo, on the subject of *Topological Optimization of French Trusses*.

Professional Experience

2006 – present
- Research assistant at "Fundação Coordenação de Projetos, Pesquisas e Estudos Tecnológicos (COPPETEC)", Rio de Janeiro, RJ, Brazil.

2002
- Trainee at "Associação Técnico Científica Eng. Paulo de Frontin (ASTEF)", Fortaleza, CE, Brazil.

Professional Experience (continued)

2000   • Trainee at "Construtora Akron", Fortaleza, CE, Brazil.

Teaching Experience

2005 – 2006   • Teaching assistant on the undergraduate course *Fundamentals of Programming* at the department of Environmental Engineering, at "Universidade Federal do Rio de Janeiro", Rio de Janeiro, Brazil.

Interest Areas

- Computational geometry
- Triangulations
- Mesh generation algorithms

Languages

Portuguese   • Native language.
English   • Good reading and writing, fair speaking.
French   • Good reading of scientific texts.

List of Publications

[1]   Vicente H. F. Batista, David L. Millman, Sylvain Pion, and Johannes Singler.
Parallel geometric algorithms for multi-core computers.
Research Report 6749, INRIA Sophia-Antipolis, 2008.
http://hal.inria.fr/inria-00343804/ .

[2]   Vicente H. F. Batista, Fernando L. B. Ribeiro, and José A. F. Santiago.
Generation of Unstructured Tetrahedral Meshes Using an Advancing Front Method.
In *Proceedings of the 26th Iberian Latin-American Congress on Computational Methods in Engineering*, Guarapari, October 2005.

List of Publications (continued)

[3]   Marcos Martinez Silvoso, Eduardo de Moraes Rêgo Fairbairn, Iuri Alves
         Ferreira, Fernando Luiz Bastos Ribeiro, Romildo Dias Toledo-Filho, and
         Vicente Helano Feitosa Batista.
         Cálculo térmico 3D de estruturas de usina hidrelétrica com alta complex-
         idade geométrica.
         In *Proceedings of the 29th Iberian Latin-American Congress on Compu-
         tational Methods in Engineering*, Maceió, November 2008.

Projects

COPPETEX
- Design and implementation of a LATEX class for composing dissertations, qualifying exams and thesis at "Instituto Alberto Luiz Coimbra de Pós-graduação e Pesquisa de Engenharia (COPPE/UFRJ)".

Saft3D
- Design and implementation in C of an unstructured tetrahedral mesh generator using an advancing front algorithm.

Technical Skills

OS
- Operating systems Linux, Solaris and Windows XP.

src
- Programming languages C, C++ and Fortran.

.a/.lib
- Applications development using CGAL, Boost, MPI, OpenMP, OpenGL, GNU libc and Qt.

version
- Practical use of version control systems like CVS and SVN.

doc
- Maintenance of software documentations with Texinfo and GNU troff.

LATEX
- Composition of documents and presentations with LATEX.

www
- Creation of homepages using HTML and CSS.

dev
- Current development tools: vim, gcc and auto[make and conf].