

Resume

Sicilia Ferreira Judice

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Personal Information

Name: Sicilia Ferreira Ponce Pasini Judice

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Formal Education

- 1999 - 2001** Vocational and Technical Education in Computer Technician
At Federal Technological Education Center of Campos
In Campos dos Goytacazes - RJ, Brazil
- 2002 - 2006** Graduate in Computer Science
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil
Title: Computer Simulation Applied to Electronic Games
Advisor: Ítalo de Oliveira Matias
- 2002 - 2007** Graduate in Graphic Design
At Federal Technological Education Center of Campos
In Campos dos Goytacazes - RJ, Brazil
- 2007 - 2009** Master's in Computational Modeling
At National Laboratory of Scientific Computation, LNCC
In Petropolis - RJ, Brazil
Title: Application of Lattice based models to Fluid Animation
Advisor: Gilson Antonio Giraldi
Scholarship from : FAPERJ
Keywords: Simulation, Computer Graphic, Lattice based models.

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Complementary Education

- 2002 Short Term Course in Object-oriented using UML and Java
At Federal Technological Education Center of Campos
In Campos dos Goytacazes - RJ, Brazil

- 2003 Short Term Course in Parallel Programming
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in Algebra and Logic of Programming
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in XML
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in 3D Studio Max
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in Latex
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in Matlab
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2004 Short Term Course in PHP
At Cândido Mendes University, UCAM
In Campos dos Goytacazes - RJ, Brazil

- 2008 Short Term Course in Numerical Methods for Shallow Water Problems
At National Laboratory of Scientific Computation, LNCC
In Petropolis - RJ, Brazil

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Professional Experience

- 2004 - 2006 Cândido Mendes University - Campos - RJ, Brazil
Contract: Institucional
Position: student of basic scientific research
Working hours (weekly): 24
Schemes of job: Part-time
Project Information: Computational Simulation of Heat Distribution in Process with High Pressures and Heat. Scholarship from FENORTE for 8 months, from May 1, 2005 until December 12, 2005.
- 2007 - 2009 National Laboratory of Scientific Computation - Petrópolis - RJ, Brazil
Position: student of master
Schemes of job: Full-time and exclusiveness
Project Information: Fluid Computational Simulation and Animation through lattice based models, such as the FHP, a Lattice-gas Cellular Automata, and the Lattice Boltzmann Method. Scholarship from FAPERJ.

Research Areas

- Computational Modeling and Simulation
- Computer Graphics
- Fluid Simulation and Animation
- Realistic Rendering
- Lattice based models

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Published Works ¹

- 2005 Authors: VIANNA, D. S., RANGEL, J. J. A., JUDICE, S. F. P. P.
Title: Computational Simulation of the Voltage Profile for the Diamonds Synthesis using a Parallel Algorithm (in portuguese)
In: SBPO - Brazilian Symposium of Operational Research, 2005, Gramado - RS, Brazil
Keywords: Parallel Processing and Simulation
- 2005 Authors: RANGEL, J. J. A., VIANNA, D. S., JUDICE, S. F. P. P.
Title: Mathematic Modeling for Simulating the Temperature Profile for Diamonds Synthesis using Parallel Programming (in portuguese)
In: Regional Meeting of Applied and Computational Mathematics, 2005, Vitória - ES, Brazil
Keywords: Computational Simulation, Mathematics Modeling
- 2006 Authors: RANGEL, J. J. A., VIANNA, D. S., JUDICE, S. F. P. P.
Title: Computational Simulation of the Temperature Profile of Diamonds Synthesis using Parallel Programming (in portuguese)
In: ENEGEP - National Meeting of Production Engineering, 2006, Fortaleza - CE, Brazil
Keywords: Computational Simulation, Parallel Programming
- 2006 Authors: GOMES, R. C. B. P., RANGEL JUNIOR, M., JUDICE, S. F. P. P., MATIAS, I. O.
Title: Deformation in Cars Race (in portuguese)
In: V SBGames - V Brazilian Symposium for Computer Games and Entertainment, 2006, Recife - PE, Brazil
Keywords: Simulation, Real time colision

1 - all the PDFs of the published works can be found in: www.siciliajudice.com in the section named "Publications".

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Published Works

- 2008 Authors: S. F. P. P. Judice, G. A. Giraldi
Title: 3D Fluid Animation through Cellular Automata such as FHP
(in portuguese)
In: IV SULCOMP - Congress in Computer Science, 2008, Criciúma - SC, Brazil
Keywords: Fluid Animation, Cellular Automata
- 2008 Authors: S. F. P. P. Judice, G. A. Giraldi
Title: Discrete Models for Animating Gas-Liquid and Fluid-Surface Interactions
In: SIBGRAPI - Brazilian Symposium on Computer Graphics and Image Processing, Workshop of Thesis and Dissertations in Computer Graphic, 2008, Campo Grande - MS, Brazil
Keywords: Fluid Animation, Cellular Automata
- 2008 Authors: S. F. P. P. Judice, B. S. Coutinho, G. A. Giraldi
Title: A Cellular Automata Framework for Real Time Fluid Animation
In: VII SBGames - Brazilian Symposium for Computer Games and Entertainment, 2008, Belo Horizonte - MG, Brazil
Keywords: Real Time Fluid Animation, Cellular Automata
Selected between the 10 best computing papers!

Submitted Works

- 2009 Authors: S. F. P. P. Judice, B. Barcellos, G. A. Giraldi
Title: Lattice Methods for Fluid Animation in Games
In: ACM CIE Journal

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Participation in Events

- 2001 I FOPP - Forum for Professional Practice
Title: Action and Professional Development
At Federal Technological Education Center, Campos - RJ, Brazil

- 2004 I Regional Meeting of Design Students from RJ and ES
At Federal Technological Education Center, Campos - RJ, Brazil

- 2004 VI Computing Journey
At Cândido Mendes University, Campos - RJ, Brazil

- 2005 V SBGames - Brazilian Symposium of Computer Games and Entertainment
At São Paulo University, USP, São Paulo - SP, Brazil

- 2005 CDG - Games Developers Conference
In Rio de Janeiro - RJ, Brazil

- 2006 II CICC - International Congress of Scientific Knowledge
Oral Communication: Deformable Simulation in Computer Games
(in portuguese)
At CENSA, Campos - RJ, Brazil

- 2007 IX SVR2007 - Symposium on Virtual and Augmented Reality
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2008 I Academic Meeting of Computational Modeling
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2008 3rd LNCC Meeting on Computational Modeling
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2008 I Modeling Journey of High Performance
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

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Participation in Events

- 2008 VII SBGames - Brazilian Symposium of Computer Games and Entertainment
Oral Communication: A Cellular Automata Framework for Real Time Fluid Animation (selected between the 10 best computing papers)
At PUC Minas, Belo Horizonte - MG, Brazil

- 2008 Sibgrapi - Brazilian Symposium on Computer Graphics and Image Processing
Oral Communication: Discrete Models for Animating Gas-Liquid and Fluid-Surface Interactions
At UCDB, Campo Grande - MS, Brazil

- 2009 II Computational Modeling Journey
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2009 II Academic Meeting of Computational Modeling
Oral Communication: A Cellular Automata Framework for Real Time Fluid Animation (in portuguese)
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2009 1st Brazil-China Conference on Scientific Computing
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil

- 2009 VIII SBGames - Brazilian Symposium of Computer Games and Entertainment
At PUC, Rio de Janeiro - RJ, Brazil

- 2009 Sibgrapi - Brazilian Symposium on Computer Graphics and Image Processing
At PUC, Rio de Janeiro - RJ, Brazil

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Organization of Events

- 2008 I Academic Meeting of Computational Modeling**
Title: The Importance of Multidisciplinarity in the Formation of the New Researcher
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil
- 2009 II Academic Meeting of Computational Modeling**
Title: Conquests and Challenges
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil
- 2010 III Academic Meeting of Computational Modeling**
At National Laboratory of Scientific Computation, Petrópolis - RJ, Brazil