

CURRICULUM VITAE

Fernando Santos Osório

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(this document is being updates)



Business Address:

Unisinos University
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Home Address:

Fernando Santos Osório
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Personal Information:

Citizenship: Brazilian
Birth Place: Porto Alegre, Brazil
Birth Date: May, 23 - 1966
Marital Status: Married
Languages: Portuguese, French - Very Good
English, Spanish - Good

Education:

- 1993-1998 Institut National Polytechnique de Grenoble (INPG) – IMAG. Grenoble, France.
Ph.D. in Computer Science – “Informatique: Systèmes et Reseaux”, February 1998.
Research Area: Artificial Intelligence and Machine Learning.
Thesis Title: INSS – A Hybrid Neuro-Symbolic System for Constructive Machine Learning.
“INSS - Un Système Hybride Neuro-Symbolique pour l'Apprentissage Automatique Constructif”
Advisor: Phillippe Jorrand / Bernard Amy
Web page: <http://www.inf.unisinos.br/~osorio/thesis/>
- 1988-1991 Universidade Federal do Rio Grande do Sul (UFRGS), PPGCC. Porto Alegre, Brazil.
M.Sc. in Computer Science, October 1991. (Web: <http://www.inf.ufrgs.br/pos/>)
Research Area: Artificial Intelligence, Image Processing and Artificial Neural Networks.
Work Title: Optical Character Recognition using Artificial Neural Networks.
“Um Estudo Sobre Reconhecimento Visual de Caracteres através de Redes Neurais”
Advisor: Anatólio Laschuck
- 1984-1987 Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil.
Bachelor in Computer Science, December 1997. (Web: <http://www.inf.ufrgs.br/>)
Research Area: Computer Graphics, Graphical Interfaces and Electronic CAD.
Work Title: Development of a graphical interface for Esqueleto Electronic CAD Tool.
“Interface Gráfica para o Editor de Esquemas Elétricos Esqueleto”
Advisor: Dante Barone
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Awards, Scholarships, Fellowships, Prizes, Grants

- 2007 IEEE Computer Society – Member of “Distinguished Visitor Program Latin America”.
IEEE DVP 2007-2009. See: <http://www.computer.org/chapter/dvp/toc.htm>.
Presented talks as DVP Invited Speaker at Colombia (JT-RNR 2007) and México (CERMA 2007)
- 2006 IEEE WCCI (World Conference on Computational Intelligence) – IJCNN (International Joint Conference on Neural Networks, Vancouver – Canada)
Best Session Presentation Award (Session: “Intelligent Control Applications I”)
Paper Title: “SEVA3D: Using Artificial Neural Networks to Autonomous Vehicle Parking Control”
- 2004 Prêmio Melhor Monografia de Milton Heinen no Concurso de Monografias, Dissertações e Teses em Computação e áreas Afins (Best Undergraduate Dissertation Prize – Computer Science), IV Congresso Brasileiro de Computação - CBComp 2004 - UNIVALI, Itajaí - SC. [**Advisor**]
Title: Autenticação On-line de assinaturas utilizando Redes Neurais.
- 2003 Melhor Trabalho de Cássia Trojahn dos Santos na Categoria Resumo Estendido do IV Encontro Nacional de Inteligência Artificial, Sociedade Brasileira de Computação (Best Short Paper of the Conference). [**Advisor**]
Title: Concepção de Um Agente Inteligente para um Ambiente Virtual Adaptativo.
- 2001 Prêmio Jovem Pesquisador de João Ricardo Bittencourt (Best Work – Young Researchers Prize) - Ciências Exatas e da Terra, Universidade Federal do Rio Grande do Sul – UFRGS. [**Advisor**]
Paper Title: Processamento de Imagens Inteligente usando Redes Neurais Artificiais. (Published in a special edition Book).
- 2001 Visiting Professor at NUS (National University of Singapore) – PRIS (Program for Research into Intelligent Systems - <http://wing.comp.nus.edu.sg/pris/index.html>). Visiting Period from 13th Mar to 7th Apr 2001. Web: <http://wing.comp.nus.edu.sg/pris/AboutPRIS/PRISVisitors.htm>
- 2000 Prêmio de Melhor Trabalho de Conclusão de Farlei Heinen em Ciências Exatas e da Terra da Unisinos (Best Undergraduate Dissertation Prize – Computer Science / Exact Sciences), Unisinos [**Advisor**]
Title: Robotica Autônoma: integração entre planificação e comportamento reativo. (Published in a special edition Book).
- 1993 CAPES - COFECUB Grant (Brazilian / French International Research Cooperation Funding).
Grant: Ph.D. course grant sponsored by CAPES (Brazil) and COFECUB (France) – 4 years.
- 1991 CNPq RHAЕ program Fellowship (Brazilian Scientific Council).
Grant: Associated Researcher at UFRGS – 2 years.
- 1988 CNPq Scholarship (Brazilian Scientific Council).
Grant: Master course grant sponsored by CNPq - 3 years.
- 1988 EDISA Prize (Edisa – Brazilian Computer Industry, by now acquired by HP).
Best undergraduate student in Computer Science at UFRGS in 1988.
- 1987 SBC (Brazilian Computer Society) prize for Undergraduate Scientific Academic Studies.
Paper presented and published at SBC Congress, Recife. July 1987.
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Professional Information:

UNISINOS – Universidade do Vale do Rio dos Sinos

Full-time Professor at UNISINOS

Computer Science Department (Undergraduate / Graduate courses).

Period: from March 1998 to present.

Position: “Professor Titular” (Full Time Professor) – Head of the Artificial Intelligence Group

Research Groups:

GIA – Artificial Intelligence Group / UNISINOS

<http://www.inf.unisinos.br/~osorio/gia.html>

GPVA – Autonomous Vehicles Research Group / UNISINOS

<http://www.exatec.unisinos.br/~autonom/html/en/index.htm>

GRAPHIT – Computer Graphics, Image Processing and Vision Group / UNISINOS

<http://www.inf.unisinos.br/~graphit/>

Teaching courses:

- Master in Applied Computer Science (“Mestrado em Computação Aplicada”)
 - Artificial Intelligence, Adaptive Systems, Autonomous Robots, C Language
- Undergraduate in Computer Science (“Bacharelado em Informática – Software Básico”)
 - Artificial Neural Networks, Computer Games Programming, A.I. for Games, Pascal Programming and Data structures

Administrative Functions:

- Head of Artificial Intelligence Group at Unisinos

Research Activities:

- IAVI – A.I. for Intelligent Agents and Vehicles – Research Project coordinator
- Autonomous Vehicles – Research Project Member
- RVB / FINEP – Brazilian Visualization Research Network - Research Project Member

MEC/INEP – Ministry of Education and Culture (Brazilian Government Institution)

Activities: Consultant – “Sistema Nacional de Avaliação da Educação Superior” (Brazilian Universities Evaluation Committee)

Period: from October 2006 to present. Position: Consultant

FAPERGS – Fundação de Amparo à Pesquisa do Estado do RGS

Computer Science Scientific Council Member at FAPERGS Foundation (Research Funding for South Region)

Activities: Projects and Scholarships funding requests analysis.

Period: from September 2000 to 2003. Position: Consultant

UNISINOS – Universidade do Vale do Rio dos Sinos

Part-time teacher at UNISINOS, Computer Science Department (Undergraduate courses).

Period: from March 1990 to July 1993. Position: “Professor Assistente”

Teaching courses: Undergraduate in Computer Science (“Bacharelado em Informática”)

- Computer Graphics, Seminars in Computer Science, Introductory Computing Concepts

PUC-RS – Pontifícia Universidade Católica do RS

Part-time teacher at PUCRS, Electrical Engineering Department (Undergraduate courses).

Period: from July 1990 to July 1992. Position: “Professor Auxiliar”.

Teaching courses: Computer Architectures and Microprocessors (Undergraduate)

Research Experience:

Project IAVI (Artificial Intelligence Applied in Intelligent Agents and Vehicles) at Unisinos

Function: Project Coordination

Beginning: 2006 – End: active

Funding: UNISINOS, CNPq, FAPERGS

Project description:

Research and development of A.I. and Machine Learning Tools applied to control autonomous agents and autonomous vehicles/robots.

<http://www.inf.unisinos.br/~osorio/iavi.html>

Project Veículos Autônomos (Autonomous Vehicles Research Group – GPVA)

Function: Project Member

Beginning: 2000 – End: active

Funding: UNISINOS, CNPq, FAPERGS, ALTUS (private company)

Project description:

Research and development of Intelligent Autonomous Vehicles: development of the Drive-By-Wire technology; development of Conductor Assistance Systems; automation of Integrated Transportation Systems; development of computer vision systems for vehicles; development of virtual reality and Computer simulation systems (design of mobile robots and autonomous vehicles). The team is composed by researchers from the Electrical Engineering, Computer Engineering Colleges and the Programa Interdisciplinar de Pós-Graduação em Computação Aplicada (Master in Applied Computer Science) and has been developing solutions for intelligent vehicles.

<http://www.exatec.unisinos.br/~autonom/>

Project RBV (Brazilian Visualization Research Networks) at Unisinos [**Security and Defense RBV Branch**]

Function: Project Member

Partnership: UFRGS / PUC-PR / UFPE / PUC-Rio / USP

Beginning: 2006 – End: active

Funding: FINEP (Brazilian Government Funding Agency)

Project description:

Research and development of Scientific Visualization and Virtual Reality Tools.

<http://www.inf.unisinos.br/~cromoslab/rbv/equipe.htm>

Project CORNEA (Color Object Recognition using a Neural Network Approach) at Unisinos

Function: Project Coordination

Beginning: 2003 – End: 2006

Funding: UNISINOS, CNPq, FAPERGS

Project description:

Research and development of image processing methods based on Neural Networks and Machine Learning Tools. Application of Vision and ML tools in Visual Control and Navigation of Autonomous Robots.

<http://www.inf.unisinos.br/~osorio/cornea.html>

Project CBERS (China-Brasil Earth Resource Satellite) at Unisinos

Function: Project Member

Beginning: 2002 – End: 2006

Partnership: UFRGS, INPE (Brazilian Spacial Research Institit)

Funding: UNISINOS, CNPq, FAPERGS

Project description:

Research and development of image processing methods based on Neural Networks to recognize different types of vegetation based on satellite images, used to environmental control.

<http://www.inf.unisinos.br/~cbers/>

Project COHBRA (Hybrid Control of Autonomous Robots) at Unisinos

Function: Project Coordination

Partnership: UFRGS, Lab. Leibniz – INPG (Grenoble, France)

Beginning: 2001 – End: 2004

Funding: UNISINOS, CNPq, FAPERGS

Project description:

Research and development of hybrid control architectures for autonomous mobile robots.

<http://www.inf.unisinos.br/~osorio/cohbra.html>

Project HMLT (Hybrid Machine Learning Tools) at Unisinos

Function: Project Coordination

Partnership: UFRGS, Lab. Leibniz – INPG (Grenoble, France) and Project ADVOCATE (Esprit /EC)

Beginning: March 1998 – End: Dec. 2001

Funding: UNISINOS, CNPq, FAPERGS

Project description:

Research, development and application of tools for hybrid (neuro-symbolic) machine learning.

Development of INSS (Incremental Neuro-Symbolic System), versions PC-Windows and Linux.

Project Intelligence Artificielle et Systèmes Cognitifs – UFRGS, UNISINOS, Leibniz Lab. (INPG)

Function: Associate Researcher at UNISINOS

Partnership: UFRGS, PUCRS, UCS (Brazil) and Laboratoire Leibniz (Grenoble, France)

Beginning: August 1997 – End: August 2001

Funding: UNISINOS, CAPES, Cofecub

Project description:

Research, teaching and knowledge/experiences interchange between Brazil and France.

Main topics: hybrid systems and autonomous robots.

Project SYMEDIA (“SYstèmes MEDicaux et Intelligence Artificielle”) at Leibniz Lab., INPG

Function: Associate Researcher at Leibniz and UNISINOS

Partnership: UNISINOS, Lab. Leibniz (Grenoble, France) and CHU (Centre Hospitalier) de Grenoble

Beginning: September 1997 – End: September 1999

Funding: Conseil Départemental de la Région Rhône-Alpes

Project description:

Research and development of tools integrating medical diagnosis and Artificial Intelligence systems.

Application of the INSS system to computer aided medical diagnosis.

Project MIX at Leibniz Lab.

Function: Associate Researcher at Laboratoire Leibniz, INPG (Grenoble, France)

Partnership: Université de Genève, CHU de Grenoble

Beginning: September 1993 – End: September 1997

Funding: European Community – Esprit Project / BRA

Project description:

Research and application of hybrid tools in a medical diagnosis system (Toxic coma diagnosis).

Application of the INSS system to medical data – Learning, diagnosis and rule extraction.

Project SIRENE (“Simuladores de Redes Neurais”) at UFRGS

Function: Associate Researcher at UFRGS

Beginning: March 1991 – End: March 1993

Funding: UFRGS, CNPq, FAPERGS

Project description:

Development of an environment for Artificial Neural Network simulation in C++. Application: voice commands recognition and OCR

Project ASINTIR (“Ambiente de Síntese de Imagens Realísticas”) at UNISINOS

Function: Project Coordination

Beginning: March 1991 – End: March 1994 (I left this project in July 1993).

Funding: UNISINOS, FAPERGS, CNPq

Project description:

Development of tools for image synthesis using Ray-Tracing. Tools for Computer Graphics teaching. This tools (modelling, synthesis and visualisation tools) were implemented in C for IBM-PC.

Project EDESQ (“Editor de Esquemas Elétricos”) at UFRGS

Function: System developer at UFRGS

Partnership: UFRGS, Fundatec, SID Microelectronics - Funding: Fundatec, SID Microelectronics

Beginning: March 1988 – End: March 1990

Project description:

Development of a graphical tool for electronic diagrams design (like EWB or Menthor Graphics Systems).

Main Publications:

Book Chapters

- OSÓRIO Fernando S.; MUSSE, Soraia R.; VIEIRA, Renata Vieira; HEINENI; Milton R.; PAIVA, Daniel. Increasing Reality in Virtual Reality Applications through Physical and Behavioural Simulation. Virtual Concept Summer School – To appear in Research in: Interactive Design Proceedings of Virtual Concept 2006, Fischer, Xavier; Coutellier, Daniel (Eds.) – Springer Verlag. Tutorial, CETA-SENAI, Porto Alegre, November, 2006. p.1-45.
- JUNG, Cláudio; OSÓRIO, Fernando Santos; KELBER, Christian; HEINEN, Farlei. Computação Embarcada: Projeto e Implementação de Veículos Autônomos Inteligentes. In: BARCELLOS, Marinho P.; LOUREIRO, Antônio A. F. (Org.). JAI - Jornada de Atualização em Informática / Congresso da SBC 2005. Porto Alegre, 2005, v. 1, p. 1358-1406.
- OSÓRIO, Fernando Santos; MUSSE, Soraia Raupp; SANTOS, Cássia Trojahn dos; HEINEN, Farlei; BRAUN, Adriana; SILVA, André Tavares da. Intelligent Virtual Reality Environments (IVRE): Principles, Implementation, Interaction, Examples and Practical Applications. In: FISCHER, Xavier. (Org.). Virtual Concept (Proceedings - Tutorials). Biarritz, França, 2005, v. 1, p. 1-64.
- OSÓRIO, Fernando Santos; MUSSE, Soraia Raupp; SANTOS, Cássia Trojahn dos; HEINEN, Farlei; SILVA, André Tavares da; BRAUN, Adriana. Ambientes Virtuais Interativos e Inteligentes: Fundamentos, Implementação e Aplicações Práticas. In: ANDRADE, Aline Maria Santos; MARTINS, Ana Teresa; MACEDO, Raimundo José de Araújo. (Org.). JAI - Jornada de Atualização em Informática / Congresso da SBC 2004. Salvador, Bahia, 2004, v. 2, p. 239-288.
- BITTENCOURT, João Ricardo; OSÓRIO, Fernando Santos. Processamento de Imagens Inteligente usando Redes Neurais Artificiais. In: ROCHA, M. A.; CRUZ, T. R. (Org.). Aprendizado, Criação e Integração na Iniciação Científica. Porto Alegre, 2002, v. 1, p. 11-35.
- OSÓRIO, Fernando Santos, AMY, Bernard, CECHIN, Adelmo. Hybrid Machine Learning Tools – INSS: A Neuro-Symbolic System for Constructive Machine Learning. Furuhashi, T.; Tano, S.; Jacobsen, H.-a.(Eds). In: Deep fusion of computational and symbolic process. ISBN: 3-5401.4690-3. Springer-Verlag: Berlin, Studies in Fuzziness and Soft Computing Series. 2000. vol.59., p.121-144.

- DECLOEDT, Loïc, OSÓRIO, Fernando Santos, AMY, Bernard. Rule_Out Method: A New Approach for Knowledge Explication from Trained ANN (Chapter 3). Andrews, Robert; Diederich, Joachim. In: Rules and networks. ISBN: 1-8643.5162-4. QUT – Queensland University, Brisbane - Australia, 1996, vol.1, p.25-33.

Book Editor

- GARCIA, Ana Cristina Bicharra (Org.), OSÓRIO, Fernando Santos (Org.). Proceedings of V ENIA - Encontro Nacional de Inteligência Artificial da SBC. Porto Alegre - ILTC/UFRJ: SBC - XXV Congresso da SBC - V ENIA, 2005. v. 1, 643 p.
- OSÓRIO, Fernando Santos (Org.), VIEIRA, Renata (Org.), SICHMAN, Jaime (Org.). Proceedings of IV ENIA - Encontro Nacional de Inteligência Artificial da SBC. v.7. ed. Campinas: Editado pela SBC (Soc. Brasileira de Computação), 2003. v. 1, 662 p.
- VIEIRA, Renata (Org.), OSÓRIO, Fernando Santos (Org.), REZENDE, Solange Oliveira (Org.). Proceedings of MCIA / JAIA 2003 - Jornada de Mini-Cursos de Inteligência Artificial do ENIA 2003. v.8. ed. Campinas: Editado pela SBC (Sociedade Brasileira de Computação), 2003. v. 1, 395 p.

Journals and Periodicals

- HEINEN, Milton; OSÓRIO, Fernando; HEINEN, Farlei; Kelber, Christian. SEVA3D: Autonomous Vehicles Parking Simulator in a three-dimensional environment. Revista Infocomp, UFLA - Univ. Federal de Lavras, v. 5, n. 5, 2007 (to appear – paper accepted).
- SILVA, Cassiana; VIEIRA, Renata; OSÓRIO, Fernando Santos. Evaluating the use of linguistic information in the preprocessing phase of Text Mining. Inteligencia artificial, Espanha, v. 9, n. 26, p. 59-66, 2005.
- HEINEN, Milton Roberto; OSÓRIO, Fernando Santos. Biometria Comportamental: Pesquisa e Desenvolvimento de um Sistema de Autenticação de Usuários Utilizando Assinaturas Manuscritas. Revista Infocomp, UFLA - Univ. Federal de Lavras, v. 3, n. 2, p. 32-37, 2004. (title: Behavioural Biometry: User Authentication using Manuscript Signatures)
- HEINEN, Milton Roberto; OSÓRIO, Fernando Santos. NeuralSignX: Sistema Neural para a Autenticação de Assinaturas. Hifen, PUCRS - Uruguaiana, RS, v. 28, n. 54, p. 103-108, 2004. (title: NeuralSignX: A System for Neural Authentication of Signatures)
- SANTOS, Cássia Trojahn dos; OSÓRIO, Fernando Santos. Concepção de um Ambiente Virtual Inteligente e Adaptativo. Scientia, Sao Leopoldo - UNISINOS, v. 14, n. 2, p. 133-154, 2003. (title: Creating a Virtual and Adaptive Intelligent Environment)
- BENDER, Túlio Cléber; OSÓRIO, Fernando Santos. Recuperação de imagens 2D utilizando técnicas de Inteligência Artificial. Scientia, Sao Leopoldo, v. 14, n. 1, p. 83-97, 2003. (title: Image retrieval using Artificial Intelligence Techniques)
- KELBER, Christian; OSÓRIO, Fernando Santos; JUNG, Cláudio; DREGGER, Rubem Sprenger; GULES, Roger; MELLO JR, Cláudio Dornelles; SILVEIRA, Marcos Azevedo da; SCHUMACHER, Walter; HEINEN, Farlei. Tecnologias para Automação Veicular - Soluções em Mecatrônica e Sistemas de Apoio ao Motorista. Estudos Tecnológicos Unisinos: Arquitetura, Unisinos - São Leopoldo, v. 24, n. 1, p. 37-47, 2003. (title: Vehicle automation techniques: from mechatronics to computer aided vehicle guidance)

- MOSCHETTA, Eduardo; OSÓRIO, Fernando Santos; CAVALHEIRO, Gerson. Reconhecedor de Imagens Concorrente. Scientia, Editora Unisinos -São Leopoldo, v. 13, n. 1, p. 123-137, 2002. (title: Parallel processing image matching system)
- OSÓRIO, Fernando Santos; AMY, Bernard. INSS: A Hybrid System for Constructive Machine Learning. Neurocomputing, ISSN: 09252312. Elsevier Press: Netherlands, vol.1999, no.28, p.191-205, 1999.
- SALGADO, Gerardo Reyes; OSÓRIO, Fernando Santos. Las Reglas de Modulación en los Sistemas Híbridos Neuro-Simbólicos, un Estudio Teórico y una Experiencia Práctica. ISSN: 01888044. Soluciones Avanzadas, Mexico, p.1-12, 1999. (title: Modulation Rules in Hybrid Neuro-Symbolic Systems – Study and Practical Experiences)
- OSÓRIO, Fernando Santos. Rule Extraction from Trained ANNs (Report from the AISB'96 Rule Extraction from ANN Workshop). ISSN: 02684179. AISB Quaterly, vol.1996, no.95 (summer), p.19-20, 1996.
- OSÓRIO, Fernando Santos. Simulação de Redes Neurais Artificiais de Neurônios com Aprendizado Supervisionado. ISSN: 01041170. Revista Scientia – UNISINOS: São Leopoldo, v.3, n.1, p.45-66, 1992. (title: Artificial Neural Network Simulation with supervised learning)

Conference Papers

- Complete list of conference papers available at: Curriculum Vitae LATTES (CNPq): <http://lattes.cnpq.br/> (search Fernando Osório) or <http://lattes.cnpq.br/7396818382676736>
- Some publications can be also obtained in an electronic form at: <http://osorio.wait4.org/publications/Papers-Osorio.htm>

Activities

Conference Program Committee (complete list on my CV)

- IEEE CERMA 2007 (México) – Program Committee
- CGI 2007 – Computer Graphics International (Computer Graphics Society) - Program Committee
- CGI 2007 Video Festival – Program Chair
- SBGames 2007 – Brazilian Symposium on Computer Games and Entertainment – Conference Co-Chair
- ENIA 2007 – Brazilian Artificial Intelligence Conference - Program Committee
- SVR 2007 – Symposium on Virtual Reality (Brasil) - Program Committee (Short Papers)
- WSL 2007 – Brazilian International Free Software Conference - Program Committee
- SBIA / IBERAMIA 2006 – Brazilian Symposium on Artificial Intelligence and Ibero-American Conference on AI - Program Committee
- IEEE CERMA 2006 – Program Committee
- Virtual Concept 2006 (ESTIA-France/Cancun México) - Program Committee
- Virtual Concept Summer School – Brazil 2006 – Program Chair
- JRI – ENRI 2006 and 2004 (SBC) – Brazilian Intelligent Robotics Conference - Program Committee
- SIBGRAPI Tutorials 2005 – Program Committee
- ENIA 2005 Program Chair and Program Committee
- SBIA 2004 – Brazilian Symposium on Artificial Intelligence (external reviewer).
- SIBGRAPI 2004 – Computer Graphics and Image Processing Brazilian Conference (external reviewer).
- ENIA 2003 – Program Chair and Program Committee
- SBIA / IBERAMIA 2000 – Brazilian Symposium on Artificial Intelligence and Ibero-American Conference on AI (external reviewer).
- SIBGRAPI 2000 – Computer Graphics and Image Processing Brazilian Conference (external reviewer).

International Cooperation / Exchange

- Program for Research into Intelligent Systems - PRIS Talks and Seminars (Singapore, NUS). 2001. Elaboration of the Hybrid Systems chapter on the Softcomputing Guidebook <http://www.comp.nus.edu.sg/~pris/Guidebook/GuidebookIndex.html>
 - Presentation: “La recherche sur les systèmes hybrides et sur les réseaux de neurones en développement dans l'unisinos: les projets HMLT et FAGNIS”. (Leibniz Lab., March 2000).
 - Presentation: “Projet HMLT - hybrid machine learning tools: application des systèmes hybrides à la robotique autonome”. (Leibniz Lab., March 2000).
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For more information, please refer to:

Some of Osorio's on-line publications:

Please use Login: “guest” and Password: “unisinos” (as indicated in the dialog-box window)

<http://osorio.wait4.org/publications/Papers-Osorio.htm>

CNPq (Brazilian Research Council) – CV Lattes:

<http://lattes.cnpq.br/7396818382676736>

or

Search at: <http://buscatextual.cnpq.br/buscatextual-eng/index.jsp> (by name: Fernando Osorio)
