

Curriculum Vitae

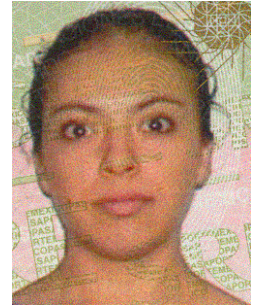
Personal Information

Name: Lluvia Carolina Morales Reynaga

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RESEARCH INTERESTS

Artificial Intelligence Applied to E-learning, Adaptive Web Based Systems, Automated Planning and Scheduling, Information Recovering, Decision Support Systems.

ACADEMIC TRAINING

2008-2011 PhD in Computer Science and Information Technology

2006-2008 Master in Soft Computing and Intelligent Systems, University of Granada, Spain

2002-2006 Bachelor in Computer Science, University of Sonora, Mexico. Approved by the Spanish Government as Systems Engineer.

1999-2002 Computer Technician. Centro de Bachillerato Tecnológico, Industrial y de Servicios No. 11

RESEARCH PROJECTS

2009 - 2011 TIN2008-06701-C03-02. PELEA. Planning Execution and LEarning Architecture

2009 - 2011 Research of Technologies for Integrated Management of migration (INTEGRA) CENIT 4^a convocatoria (CDTI).

2008 (Conzepto Soluciones Creativas C257000). PAIF: Autonomous Planning of Learning Designs.

2005 - 2007 (Spanish) TIN2005-08945-C06-02. ADAPTAPLAN. Adaptation based on machine learning, user modelling and planning for complex user-oriented tasks. 2005-2007

August to December 2005 Mexican Research Project: "Introducción a las Prácticas de Ingeniería de Software en los cursos de programación de computadoras de la Licenciatura en Ciencias de la Computación"

PUBLICATIONS

November 2010 *LMS Plan: An Architecture to Integrate Adapted Learning Sequences with LMS's.* Lluvia Morales, Jesús Miguel García-Gorrosieta. Workshop on Intelligent Learning Environments, MICAI 2010. Hidalgo, México.

May 2010 *A Knowledge Engineering Methodology for Rapid Prototyping of Planning Applications.* Luis Castillo, Juan Fernandez-Olivares, Antonio González, Gonzalo Milla, David Prior, Lluvia Morales, José Figueroa, Víctor Pérez-Villar. 23rd International FLAIRS Conference.

January 2010 *Adapted SCORM/AICC Objects.* Lluvia Morales, José Figueroa-Martínez, Luis Castillo. iMoot 2010.

2010 (International Journal Chapter) *LMS Plan: An Architecture to Integrate Adapted Learning Sequences with LMS's.* Lluvia Morales, Jesús Miguel García-Gorrosieta. Research in Computing Science: Special Issue on Advances in Artificial Intelligence. Vol. 51. pp 189-196.

2010 (International Journal Chapter) *Automatic generation of temporal planning domains for e-learning problems.* Luis Castillo, Lluvia Morales, Arturo González-Ferrer, Juan Fdez-Olivares, Daniel Borrajo, Eva Onaindía. Journal of Scheduling (ISSN: 1094-6136).

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|--------------------------------------|--|---|
| November 2009 | | <i>Planning for Conditional Learning Routes</i> . Morales, L., Castillo, L. and Fdez-Olivares. MICAI 2009: Advances in Artificial Intelligence |
| September 2009 | | <i>Modeling E-Learning Activities in Automated Planning</i> . Antonio Garrido, Eva Onaindia, Lluvia Morales, Luis Castillo, Susana Fernández, Daniel Borrajo. International Competition on Knowledge Engineering for Planning ICKEPS (Thessaloniki, GR) 2009. |
| 2009 (International Journal Chapter) | | <i>Fuzzy Contact Maps Overlap for Protein Comparison: the Roles of Fitness and Normalization and the relation with Crisp Contact Maps</i> . González, J.R., Pelta, D.A., and Morales, L. In <i>Mathware & Soft Computing</i> , Vol 16, No 1 pp.87-102 (2009). |
| 2009 (Book Chapter) | | <i>Automatic Generation of Learning Designs: Two Planning Approaches Comparison</i> . Lluvia Morales. Advisors: Luis Castillo and Juan Fdez-Olivares. In <i>New Trends on Intelligent Systems and Soft Computing</i> , Vol 1. |
| October 2008 | | " <i>Modificación del Módulo SCORM para el Soporte Básico del IMS-LD</i> ". José Figueroa Martínez, Lluvia Morales, Luis Castillo. MoodleMoot Barcelona 2008. |
| September 2008 | | " <i>Fuzzy Contact Maps Overlap for Protein Comparison: the Roles of Fitness and Normalization</i> ". Lluvia Morales, Juan R. González, David Pelta. XIV Congreso Español sobre Tecnologías y Lógica Fuzzy. |
| July 2008 | | " <i>Automatic Generation of User Adapted Learning Designs: An AI-Planning Proposal</i> ". Lluvia Morales, et al. 5 th International Conference on Adaptive Hypermedia and Adaptive Web Based Systems. |
| July 2008 | | " <i>Workflow Planning for E-learning Center Management</i> ". Arturo González-Ferrer, Lluvia Morales, et al. The 8 th IEEE International Conference on Advanced Learning Technologies |
| November 2007 | | " <i>AI Planning and Scheduling Technology Transfer to Workflow Processes Automation</i> ". Juan Fernandez-Olivares, Lluvia Morales, et al. Workshop on Planning, Scheduling and Constraint Satisfaction CAEPIA'07. |
| November 2007 | | " <i>Knowledge engineering and planning for the automated synthesis of customized learning designs</i> ". L. Castillo, L. Morales, et al. CAEPIA07. Lecture Notes in Artificial Intelligence. |
| November 2007 | | " <i>Generating a Course Domain for Several Planner Types: a first approach</i> " in Doctoral Consortium of CAEPIA-TTIA07. |
| Julio (Conference and Journal) | | <i>Pladiet: Un Sistema de Cómputo para el Diseño de Dietas Individualizadas Utilizando Algoritmos Genéticos</i> . Flores, P., Jiménez, I.J., Orozco, M.E., Galaviz, S., Raygoza, J.A., Morales, L., Ramírez, D., Cota, M.G., Espinoza, A. In: CISCi 2006 and Revista Iberoamericana de Sistemas Cibernética e Informática. V. 3 No. 2. ISSN 1690-8627 |
| October 2005 | | Poster in Digital Art and Poster Presentation in XXI International Symposium of Education in Computation. |

TALKS

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| August 2010 | | Talk: "Planning and Scheduling" in Licenciatura en Ciencias de la Computación, UNISON. |
| June 2007 | | Talk: "Automatic Generation of planning Domains for e-learning courses" in Seminar on Problem solving and Applications in user-centric technologies. |
| November 2005 | | Talk: "Collaborative Learning Environment for Entity-Relationship Modeling". 3 ^o Semana Universitaria de Computación. |
| September 2005 | | Talk: "Algebra Modular y sus Aplicaciones en Teoría de Códigos". V Seminario de Estudiantes de Matemáticas. |
| October 2004 | | Talk: "Comunicación Segura en Redes y Código Libre". 2 ^o Semana Universitaria de Computación. |

MEMBERSHIPS

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| 2011 | Member of the Program Committee IJCAI'11 |
| 2010 | Member of the program committee CINET 2010 |
| 2007 to date | Member of the program committee of CISCi07, CISCi08, CISCi09, CISCi10 and CISCi11. |

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| 2006 to date | Member of the Department of Computer Science and Artificial Intelligence (DECSAI) |
| 2007 to date | Member of the Intelligent System Research Group (ISG, TIC-175) funded by the Andalusian Regional Government |

PROFESSIONAL EXPERIENCE

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|---------------------|--|
| February-March 2010 | Tutor at the Distance Seminar: Artificial Intelligence Applied to education. |
| June to August 2010 | Installation and Support of the Learning Platform for the Latin-American Seminar: Formación de Investigadores en Asuntos Públicos. UNISON. |
| June 2008 to date | Research Contract for the CENIT Project in technologies for management of migration. |
| July-November 2008 | Fellowship for technical support in Conzepto Soluciones Creativas C257000. PAIF: Autonomous Planning of Learning Designs. |
| July-August 2005 | Scientific Research Summer of the Mexican Academy of Sciences in Instituto Tecnológico de Monterrey campus Torreón, Coahuila with the research project: "Collaborative Learning Environment for Entity-Relationship Modeling" coordinated by Dr. Maria de los Angeles Costantino Gonzalez. |
| 2005 | Part of the Development Team of the ENOAN 2005 WebSite |

LANGUAGES

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|------------------------|-------------|-------------|------------------|
| <i>English (TOEFL)</i> | 80% Reading | 80% Writing | 70% Conversation |
| <i>French</i> | 20% Reading | 10% Writing | 10% Conversation |

COMPUTING KNOWLEDGES

Office Packages:

- Microsoft Office XP (Word, Power Point, Excel, Access, Front Page)
- Open Office

Programming Languages: (mastering order)

| <i>Language</i> | <i>Compilers, IDE's y (graphic) development environments.</i> |
|-----------------|---|
| Python | Vim |
| C++ | Visual C++, C#, Borland 5.02, Borland C++ Bulder 6, QT, vim |
| Java | Jcreator J3 LE, NetBeans 4.0, vim |
| PHP with HTML | Vim, Macromedia, Front Page. |
| Basic | Visual Basic 6.0, Visual Basic .NET |
| FoxPro | FoxPro for Windows, Visual FoxPro 7.0 |
| Pascal | Pascal 7.0 |

Databases:

- MySQL
- Acces
- DB4O

AWARDS AND SCHOLARSHIPS

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|-----------------------------|--|
| June 2008 | Scholarship from ADAPTAPlan project for a research visit to the group of Reasoning on Planning and Scheduling from Universidad Politécnica de Valencia. |
| November 2007 | Scholarship award for CAEPIA doctoral consortium |
| October 2006 to date | Fellowship of Mexican National Council of Science and Technology (CONACYT) |
| November 2005 | Third place in Tercera Feria de la Creatividad y Vinculación Universitaria en la categoría Científico Tecnológica con el proyecto: "Pladiet" Sistema Inteligente para la |

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| | Planificación de Dietas. |
| February 2004 | First Place in Feria de la Creatividad y Vinculación Universitaria, categoría Consultoría y Asesoría con el proyecto: "AGIRSA" Agencia de Gestión e Innovación Sonora-Arizona. |
| 1999-2006 | Scholarship of Sindicato de Trabajadores Académicos de la Universidad de Sonora (STAUS) |
| 1996-2006 | Scholarship of Fundación Esposos Rodríguez. |
| 2004-2005 | Scholarship of Fundación UNISON como parte del programa "Talento XXI" |
| July 2002 | First Place of the Computer Technical High School age 2002. |

RECEIVED COURSES

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|---------------------------|--|
| February '08, '09 and '11 | Seminar on New Trends on Intelligent Systems and Soft Computing |
| June 2007 | Seminar on Problem Solving and Applications in User-Centric Technologies |
| February 2007 | Seminar on New Trends on Intelligent Systems and Soft Computing |
| November 2005 | Deploying a Web Application Server with High Performance (8 hrs.) |
| April 2005 | Introduction to Genetic Algorithms (8 hrs.) |
| March 2005 | How to implement a secure network? (8 hrs.) |
| March 2005 | Computational Complexity and Approximation (6 hrs.) |

DISCLOSURE OF SCIENCE AND SOCIAL SERVICES

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|------------------------|--|
| 2008 - 2011 | Social Service through teaching Spanish and Computing basis to immigrants at Cáritas Parroquial Santa María Micaela. |
| Noviembre del 2005 | Part of the organizer committee of Tercera Semana Universitaria de Computación in University of Sonora. |
| Febrero-Julio del 2005 | Social Service to provide advice to students in the course of computer programming and analyzing their progress through statistical methods. |
| Noviembre del 2004 | Part of the organizer committee of Segunda Semana Universitaria de Computación in University of Sonora. |
| 2001 -2002 | Social Service computer laboratory technician in CBTIS'11. |
| 2001 -2002 | Social Service at folk dance group of CBTIS'11. |
| 2001 -2002 | Social Service at CBTIS'11 rondalla. |