



Isabel R. Cenamor Guijarro

PERSONAL DATA

NATIONALITY: Spanish
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WORK EXPERIENCE

CURRENTLY - MARCH 2017	Project Manager Xplain AG Ibérica S. L. Description: Responsible and developer of a range of multi-disciplinary projects in Xplain. The company is an IT company specialized in solutions for public administration and organizations with security tasks. We daily work in cooperation with our colleagues in Germany and at the Swiss headquarters. Backend project: Java, Hibernate, Spring, SQL, SOAP, REST.
JUNE 2016 - JUNE 2014	Research Assistant Universidad Carlos III, Madrid Description: My research is focused on the areas of Automated Planning and Machine Learning. In particular, I am interested in the portfolio approaches, automatic algorithm configuration, domain independent, domain-specific planning and characterization problems
DECEMBER - SEPTEMBER 2014	Internship University of Huddersfield Project name: "Automated Planning on Transport System Support" at COST Network Action "Autonomic Road Transport Support Systems" (ARTS), (EU/ESF funded) Group: Planning, Autonomy and Representation of Knowledge (PARK) Description: I investigated the fruitfulness of exploiting Automated Planning techniques in the Traffic control framework. Some models of real-world traffic have been used in the last "International Planning Competition" run by staff at Huddersfield for testing planners performance within the Automated Planning community.
MAY 2014 SEPTEMBER 2012	Researching Assistant Universidad Carlos III de Madrid Project name: "OnDroad: Plataforma de Gestión de Contenidos Digitales y Servicios de Turismo para Viajeros" Partners: MiNube, Mobail and ALSA Description: R&D techniques for building tourist plans using traveling social network information. The information used to build tourist plans is obtained by crowdsourcing. Also, the system considers traveler preferences and recommendations from friends. Planning module: python, HTML, JSON.

TEACHING EXPERIENCE

2011/2016	Auxiliary Teaching Assistant Universidad Carlos III de Madrid Subject: "Computer applications in finance", Degree: Finance and Accounting (2011-2012) Subject: "Machine Learning", Degree: Computer Science and Engineering (2014-2016) Subject: "Programming", Degree: Computer Science and Engineering (2015-2016)
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EDUCATION

MARCH 2017	<p>Ph.D. Computer Science and Technology Universidad Carlos III, Madrid</p> <p>Advisor: Prof. Fernando FERNÁNDEZ and Prof. Tomás DE LA ROSA</p> <p>Thesis: “Creating Planning Portfolios with Predictive Models ”</p> <p>GRADE: A - Cum laude and Doctorado International Distinction</p>
SEPTEMBER 2012	<p>Master of Computer Science and Technology with specialization in Artificial Intelligence, Universidad Carlos III, Madrid</p> <p>Degree: <i>Máster en Ciencia y Tecnología Informática</i></p> <p>Thesis: “Aprendizaje de Modelos para la Generación de Portfolios en Planificación Automática”</p> <p>Advisor: Prof. Fernando FERNÁNDEZ and Prof. Tomás DE LA ROSA</p> <p>GRADE: B</p>
SEPTEMBER 2011	<p>Computer Science with specialization in Artificial Intelligence, Universidad Carlos III, Madrid</p> <p>Degree: <i>Ingeniero superior en Informática</i></p> <p>Thesis: “Desarrollo y selección de características basada s en distancias entre grafos...”</p> <p>Advisor: Prof. Fernando FERNÁNDEZ and Prof. Tomás DE LA ROSA</p> <p>GRADE: A with honors</p>

LANGUAGES

SPANISH: Mothertongue
ENGLISH: B2

COMPUTER SKILLS

Problem Solving Techniques:	CSP, SAT, automated planning, heuristic search and stochastic search
Automated Learning Systems:	WEKA and RAPIDMINER
SAT Systems:	MIPSAT, SATZILLA, HYDRA and 3s
Reasoning systems:	Bayesian networks and fuzzy logic
Programming languages:	JAVA, PYTHON, C++, C, LISP, C# and R
Programming frameworks:	Knowledge of Java Design Pattern and JUnit.
Databases:	HIBERNATE, SPRING, JPA TOMCAT and WEBLOGIC
Web development:	ORACLE and MYSQL
Revision Control Systems:	HTML, CSS, XML, XSL and JSON
Project Management Software:	Subversion (SVN), TORTOISESVN and GIT
UML System:	ESA methodology, Métrica 3, Agile Software Development
Operating Systems:	ALTOVA UMODEL, DIA and EASYCASE.
Other:	Unix, Ubuntu, Windows
	CLIPS, MPI , OPENMP and \LaTeX

PUBLICATIONS

Isabel Cenamor, Mauro Vallati, Lukas Chpra, Tomás de la Rosa and Fernando Fernández, TemPoRal. In ninth International Planning Competition (IPC 2018), Temporal Part.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández, IBaCoP-2018 and IBaCoP2-2018. In ninth International Planning Competition (IPC 2018), Deterministic Part.

Isabel Cenamor. Creating Planning Portfolios with Predictive Models. Dissertation thesis Universidad Carlos III de Madrid. March 2017.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández. The IBaCoP Planning System: Instance-Based Configured Portfolios. The 27th International Conference on Automated Planning and Scheduling, Pittsburgh, USA - June, 2017 Journal Track.

Tomás de la Rosa, **Isabel Cenamor**, Fernando Fernández. Performance Modelling of Planners from Homogeneous Problem Sets. The 27th International Conference on Automated Planning and Scheduling, Pittsburgh, USA - June, 2017.

Isabel Cenamor, Tomás de la Rosa, Sergio Núñez, Daniel Borrajo. Planning for Tourism Routes using Social Networks. Expert Systems with Applications. March 2017.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández. The IBaCoP Planning System: Instance-Based Configured Portfolios. Journal of Artificial Intelligence Research (JAIR) No. 56 - 2016

Isabel Cenamor, Lukas Chrpá, Falilat Jimoh, Lee McCluskey and Mauro Vallati. Planning & Scheduling Applications in Urban Traffic Management. PlanSIG. Darlington Campus of Teesside University in December 2014.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández, IBaCoP and IBaCoP2 Planner. In Octave International Planning Competition (IPC 2014), Deterministic Part.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández, LIBaCoP and LIBaCoP2 Planner. In Octave International Planning Competition (IPC 2014) Learning Track.

Sergio Núñez, **Isabel Cenamor** and Jesús Virseda NuCeLaR. In Octave International Planning Competition (IPC 2014) Deterministic Track.

Isabel Cenamor, Tomás de la Rosa and Daniel Borrajo. OnDroad Planner: Building Tourist Plans Using Traveling Social Network Information. Human Computation and Crowdsourcing: Work in Progress and Demonstration Abstracts. November, 2013 in Palm Springs, California, USA

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández, Learning Predictive Models to Configure Planning Portfolios, Proceedings of ICAPS'13 workshop on Planning and Learning. June, 2013, Rome, Italy.

Isabel Cenamor, Tomás de la Rosa and Fernando Fernández, Mining IPC-2011 Results. In Proceedings of the Third Workshop on the International Planning Competition. June, 2012, Atibaia, Sao Paulo, Brazil.

AWARDS

Winner Temporal Satisficing track, 1st position in the IPC 2018 with: TemPoRaL.

Excellence awards 2018 for the dissertation Universidad Carlos III de Madrid.

Winner Sequential Satisficing track, 1st and 2nd positions in the IPC 2014 with: IBaCoP2.

Runner-up Sequential Multi-core track The 2nd position in the IPC 2014 with: IBaCoP.

AUXILIARY REVIEWER

ICAPS-15: The 25th International Conference on Automated Planning and Scheduling.

AAAI-15: The 27th Annual Conference on Innovative Applications of Artificial Intelligence.

SoCS 2014: The Seventh Annual Symposium on Combinatorial Search.

ADDITIONAL INFORMATION

Degree's Evaluator for ACREDITA program (Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)). Systematic verification of the results of degrees that have been implemented by the universities.

Basic course of Digital Marketing by Google and Interactive Advertising Bureau.