

Julián Urbano

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Current Position Ph.D. candidate and Graduate Teaching Assistant
Department of Computer Science, University Carlos III of Madrid, Spain

Research Interests Information Retrieval Evaluation, Music Information Retrieval, Crowdsourcing, Information Retrieval and Research Methods

Education

University Carlos III of Madrid, Spain
Ph.D. in Computer Science and Technology, October 2008 – present

University Carlos III of Madrid, Spain
M.S. in Computer Science and Technology, October 2008

Virginia Polytechnic Institute and State University (Virginia Tech), U.S.A.
Ph.D. in Computer Science and Applications, January 2007 – May 2008 (unfinished)

University Carlos III of Madrid, Spain
Bilingual Long Degree in Computer Engineering, January 2007
Thesis: *Modeling and Indexing Musical Files to Allow Music Reuse* (cum laude)

Åland Polytechnic, Finland
Erasmus student, January 2006 – July 2006

Teaching Experience

University Carlos III of Madrid, Spain

Massive Information Extraction from Digital Repositories and the Internet
Inter-University Master on Intelligence Analysis, May 2011.

Computer Programming, (Course and Lab Instructor), in English
Bilingual Bachelor in Aerospace Engineering, Fall 2010.

Searching in Open Sources
Spanish Directorate-General of the Civil Guard, December 2010

Advanced Software Design (Course Coordinator, Course and Lab Instructor)
Short Degree in Computer Engineering, Spring 2009, 2010 and 2011, and Fall 2011.

Information Retrieval and Access (Course and Lab Instructor)
Long Degree in Computer Engineering, Spring 2010 and 2011.

Information Mining
Inter-University Master on Intelligence Analysis, March 2010.

Open Course Ware

University Carlos III of Madrid, Spain

Advanced Software Design
J. Urbano, G. Génova, J. Lloréns, M. Valiente, E. Barra, M. Alejandres, 2010.

Information Retrieval and Access
J. Urbano, J. Morato, M. Marrero and S. Sánchez-Cuadrado, 2010.

Academic Activities

Virginia Polytechnic Institute and State University (Virginia Tech), U.S.A.
Member of the National Capital Region Research Methods Consortium, January 2007 – May 2008.

Projects, as Principal Investigator

Bringing Undergraduate Students Closer to a Real-World Information Retrieval Setting: Methodology and Resources.
Funded by the University Carlos III of Madrid, 2011-2012.

As Participant

Course on Searching in Open Sources
Funded by the Spanish Directorate-General of the Civil Guard, December 2010.

System for the Definition of Professional Profiles and Education Competences
Funded by the Spanish and Brazilian Governments, 2008 – 2011.

Automated Fire and Flood Hazard Protection System
Funded by the European Union, July 2008 – January 2009.

Professional Services	<p>4th International Workshop on Advances in Music Information Research (AdMIRe) Program Committee 21st World Wide Web Conference, 2012.</p> <p>1st Million Song Dataset Challenge Technical Committee</p>
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Book Chapters	<p><i>Melodic Similarity through Shape Similarity</i> J. Urbano, J. Lloréns, J. Morato and S. Sánchez-Cuadrado S. Ystad et al., Computer Music Modeling and Retrieval: Exploring Music Contents, Springer, 2011.</p>
Conference Papers	<p><i>Information Retrieval Meta-Evaluation: Challenges and Opportunities in the Music Domain</i> J. Urbano International Society for Music Information Retrieval Conference (ISMIR), 2011.</p> <p><i>Audio Music Similarity and Retrieval: Evaluation Power and Stability</i> J. Urbano, D. Martín, M. Marrero and J. Morato International Society for Music Information Retrieval Conference (ISMIR), 2011.</p> <p><i>Bringing Undergraduate Students Closer to a Real-World Information Retrieval Setting: Methodology and Resources</i> J. Urbano, M. Marrero, D. Martín and J. Morato ACM SIGCSE Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), 2011.</p> <p><i>Modeling Software Development Practices using Reusable Project Patterns: A Case Study</i> D. Martín, J. García, J. Urbano and A. Amescua European Systems & Software Process Improvement and Innovation Conference, Industrial Track (EuroSPI), 2011.</p> <p><i>Improving the Generation of Ground Truths based on Partially Ordered Lists</i> J. Urbano, M. Marrero, D. Martín and J. Lloréns International Society for Music Information Retrieval Conference (ISMIR), 2010.</p> <p><i>Using the Shape of Music to Compute the Similarity between Symbolic Musical Pieces</i> J. Urbano, J. Lloréns, J. Morato and S. Sánchez-Cuadrado International Symposium on Computer Music Modeling and Retrieval (CMMR), 2010.</p> <p><i>Computer Support for a Cross-Discipline Research Consortium</i> W.B. Frakes, G. Belli, J. Urbano and R. Anguswamy International Conference on Computer Supported Education (CSEDU), 2010.</p> <p><i>Formalización y Desambiguación de Vocabularios de Metadatos mediante Ontologías</i> V. Palacios, S. Sánchez-Cuadrado, J. Morato and J. Urbano Conferencia IADIS Ibero-Americana WWW/INTERNET (CIAWI), 2010.</p>
Workshop Papers	<p><i>Crowdsourcing Preference Judgments for Evaluation of Music Similarity Tasks</i> J. Urbano, J. Morato, M. Marrero and D. Martín ACM SIGIR Workshop on Crowdsourcing for Search Evaluation (CSE), 2010.</p> <p><i>On the Definition of Patterns for Semantic Annotation</i> M. Marrero, J. Urbano, J. Morato and S. Sánchez-Cuadrado ACM CIKM Workshop on Exploiting Semantic Annotations in Information Retrieval (ESAIR), 2010.</p>
Demo Papers	<p><i>Crawling the Web for Structured Documents</i> J. Urbano, J. Lloréns, Y. Andreadakis and M. Marrero ACM International Conference on Information and Knowledge Management (CIKM), 2010.</p>
Journal Articles	<p><i>Virtualización: Una Solución para la Eficiencia, Seguridad y Administración de Intranets</i> D. Martín, M. Marrero, J. Urbano, E. Barra and J.A. Moreiro El Profesional de la Información (EPI), 2011.</p> <p><i>Sistemas de Recuperación de Información Adaptados al Dominio Biomédico</i> M. Marrero, S. Sánchez-Cuadrado, J. Urbano, J. Morato and J.A. Moreiro El Profesional de la Información (EPI), 2010.</p>
Non-Refereed Papers	<p><i>The University Carlos III of Madrid at TREC 2011 Crowdsourcing Track: Notebook Paper</i> J. Urbano, M. Marrero, D. Martín, J. Morato, K. Robles and J. Lloréns. Text REtrieval Conference (TREC), 2011.</p>

MIREX 2011 Symbolic Melodic Similarity: Sequence Alignment with Geometric Representations

J. Urbano, J. Lloréns, J. Morato and S. Sánchez-Cuadrado
Music Information Retrieval Evaluation eXchange (MIREX), 2011.

MIREX 2010 Symbolic Melodic Similarity: Local Alignment with Geometric Representations

J. Urbano, J. Lloréns, J. Morato and S. Sánchez-Cuadrado
Music Information Retrieval Evaluation eXchange (MIREX), 2010.

Encyclopedia *Intranets: Presente, Pasado y Futuro*

Entries J. Urbano
Docupedia: Enciclopedia colaborativa de información y documentación

Honors and Awards ACM SIGIR Workshop on Crowdsourcing for Search Evaluation

Most innovative paper award for *Crowdsourcing Preference Judgments for Evaluation of Music Similarity Tasks*, supported by Microsoft Bing, 2010.

Music Information Retrieval Evaluation eXchange (MIREX)

Best results in the Symbolic Melodic Similarity task, 2010 and 2011.

University Carlos III of Madrid

Congratulation letter "for the excellent results obtained in teaching the course *Advanced Software Design*", 2010.

Selected by the students to appear as a faculty member in their graduation class photo, 2010.
