

Dr. Diego Lz. de Ipiña Gz. de Artaza

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Personal

- Born in Vitoria-Gasteiz, Basque Country, Spain in 1974.
- Spanish nationality and driving license.

Experience

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|-----------------|--|
| 10/2006-present | University of Deusto <ul style="list-style-type: none">• Lecturer and researcher.• Head of Software Research, Faculty of Engineering• Head of SmartLab – an AmI dedicated research lab (http://www.smartlab.deusto.es)• Co-director of MoreLab Research Lab (http://www.morelab.deusto.es) |
| 09/2003-09/2006 | University of Deusto <ul style="list-style-type: none">• Lecturer and researcher• Head of Cátedra Movistar Telefónica Universidad de Deusto (http://www.ctmd.deusto.es) |
| 2002-08/2003 | 3G LAB <ul style="list-style-type: none">○ Development of Java EE software for Mobile Communications Systems.<ul style="list-style-type: none">○ EJBs, JSP and servlet development with Tomcat, Jboss, Weblogic.○ XML DOM/SAX & XSL processing, SOAP with Java and Python.○ Evaluation of .NET technology for development of enterprise apps. Pelikon Ltd. <ul style="list-style-type: none">○ Freelance work developing a custom document version management system based on Java EE using EJB 2.1. over JBoss and MySQL. |
| 2000-2001 | Adevas.com – Independent Software Developers (www.adevas.com) <ul style="list-style-type: none">○ Development of Win32 applications (Java, C++, Visual C++/Basic). |
| 1998-2001 | Cambridge University Engineering Department <ul style="list-style-type: none">○ Supervise students' progress in module E6 Computing Systems. |
| 1998-1999 | Cambridge University Computer Laboratory <ul style="list-style-type: none">○ Supervise final project of students of Diploma in Computer Science. |
| 1997 | CEINSA Software Engineering (www.ceinsa.es) <ul style="list-style-type: none">• Oracle Database Programming in C, PRO*C and SQL. |

Education

- 1998-2001 Ph.D. in the Cambridge University Engineering Department
- Dissertation entitled “Video-Based Sensing and Middleware Support for Wide Deployment of Sentient Spaces”.
 - World-class contributions in the area of context-aware computing.
- 1997-1998 M.Sc. in Distributed Information Management Systems
- University of Essex, Colchester, England (Average mark of 80%)
 - Dissertation entitled "Criteria for the Design of a Platform Independent Video-Based Distance Learning System" was granted Distinction.
- 1992-1997 B.Sc. Computer Engineering
- University of Deusto, Bilbao, Spain (1st class grade – ‘Notable’ 80%)
- Languages:** English, Spanish and Basque, native level.

Subjects Taught in University of Deusto

- 2007-08
- Data Transmission Systems Practical Assignments
 - Distributed Application Programming with .NET (ADO.NET, ASP.NET, Web Services, Enterprise Services)
 - Operating Systems (OS fundamentals, synchronization primitives, memory management)
 - Lecturer in MSc in Software Engineering (distributed programming in .NET)
 - Lecturer in PhD courses organised by the Faculty of Engineering (advanced distributed mobile semantic systems)
- 2006-07
- Advanced Operating Systems (distributed and parallel operating systems)
 - Application programming with open source technologies (Python, Ruby on Rails, XUL, MySQL, Sqlite3, AJAX)
 - Distributed Application Programming with .NET (ADO.NET, ASP.NET, Web Services, Enterprise Services)
 - Operating Systems (os fundamentals, synchronization primitives, memory management)
 - Lecturer in MSc in Software Engineering (distributed programming in .NET)
 - Lecturer in PhD courses organised by the Faculty of Engineering (advanced distributed mobile semantic systems)
- 2005-06
- Advanced Operating Systems (distributed and parallel operating systems)
 - Web Programming in Java (AJAX, XML, servlets, JSPs)
 - Distributed Application Programming with .NET (ADO.NET, ASP.NET, Web Services, Enterprise Services)
 - Operating Systems (os fundamentals, synchronization primitives, memory management)
 - Lecturer in PhD courses organised by the Faculty of Engineering (advanced distributed mobile semantic systems)
- 2004-05
- Databases (RDBMS, SQL, DB normalization)
 - Advanced Operating Systems (distributed and parallel operating systems)
 - Advanced Databases (Network, Hierarchical and Distributed databases, data mining, OLAP)
 - Distributed Application Programming with .NET (ADO.NET, ASP.NET, Web Services, Enterprise Services)
 - Operating Systems (os fundamentals, synchronization primitives, memory management)
- 2003-04
- Software Engineering III (Distributed Systems, client/server programming, CORBA, XML, Web Services)

- Databases (RDBMS, SQL, DB normalization)
- Software Engineering I (analysis and design of real-time systems)
- Final Year Project direction (20 students)
- Lecturer in MSc in Mobile Services and Telecommunications

Courses Taught under Enpresa Digitala for Basque Companies

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| 2007-08 | ○ OSGi: Open Services Gateway, Araba/Bizkaia/Miramon Enpresa Digitala, December 2007-March 2008 |
| 2006-07 | ○ AJAX: Asynchronous JavaScript and XML (AJAX), Araba/Bizkaia/Miramon Enpresa Digitala, October-December 2006 |
| 2005-06 | ○ Programming with Python and Zope, April-November 2007, Araba/Bizkaia/Miramon Enpresa Digitala |
| 2004-05 | ○ Open Source Web Programming with LAMP, Bizkaia Enpresa Digitala, February 2005 |

Research Projects Directed

2007-08 **AmITS: Intelligent Colaborative and Programmable Work Environment**
Financing body: Basque Government - SAIOTEK 2007
Duration, from: October 2007 until: December 2008
Amount financed: 95000 €
Size of team managed: 7 people
Summary: This project deals with the development of a middleware platform to enable the cooperation among different vehicles, vehicles and infrastructure, and vehicles and the software services available along the route. It aims to create Intelligent Transport Systems based on our expertise in Ambient Intelligence (AmI).

OdolPlan: Mobile phone-enhanced Blood Coagulation Control

Financing body: Cátedra Movistar de la Universidad de Deusto
Duration, from: October 2006 until: December 2007
Amount financed: internal Cátedra Telefónica Movistar University of Deusto (<http://www.ctmd.deusto.es>) -- 24000 €
Size of team managed: 5 people
Summary: Odolplan is a mobile service to enhance the medication treatment of patients with blood coagulation problems, which is very variable and subject to continuous medication changes (Sintrom). A web based platform gathers the coagulation level of patients and based on their current level and historic values issues through a rule-based engine a medication plan which is sent to the patients mobile. As a result, the Odolplan mobile application alerts the patient every time they have to take medication and indicates the amounts recommended.
URL: <http://www.ctmd.deusto.es/odolplan/>

ASAMI: AUTONOMIC SOFTWARE PLATFORM FOR INTEGRATING AND COORDINATING SEMANTIC SERVICES IN RESIDENTIAL ENVIRONMENTS

Financing body: MINISTERIO DE INDUSTRIA, TURISMO Y COMERCIO - PROFIT 2007
Companies involved: Tagzania S.L and CodeSyntax S.L., VISESA S.A.

Duration, from: June 2007 until: December 2008

Amount financed: 11205 € (2007) y ? (2008)

Size of team managed: 4 people

Summary: This project aimed to provide the software infrastructure needed for the intelligent control of home elements, such as sensors and actuators. Thus, it can provide assistive services that help people with physical disabilities or elder people with their daily activities. It combines the know-how of three different companies specialized on building automation (TECDOA), voice over IP (IRONTEC) and public housing (VISESA), with the support provided by the University of Deusto in middleware development and discrete rules reasoning.

URL: <http://www.tecnologico.deusto.es/projects/asami>

GeoBus: Tagzania Social Search

Financing body: Basque Government – NET INTEK-BERRI 2007/08

Companies involved: Tagzania S.L and CodeSyntax S.L.

Duration, from: October 2006 until: December 2007

Amount financed: 24400 € (2007)

Size of team managed: 3 people

Summary: The goal of this project is to enhance the current search mechanism offered by Tagzania (<http://www.tagzania.com/>) enabling the integration of geographic searches coming from Tagzania's own database, geonames, Google geocoding, Google AJAX Search API and Google OpenSocial API. Furthermore, this project will produce a mobile client for Tagzania with celltagging capabilities, i.e. mapping of GPS coordinates to GSM cell codes.

2006-07

SMARTLAB: Intelligent Collaborative and Programmable Work Environment

Financing body: Basque Government - SAIOTEK 2006

Duration, from: October 2006 until: December 2007

Amount financed: 183354 €

Size of team managed: 10 people

Summary: This project had as primary objective to provide a platform which enables the integration of sensing, reasoning and actuation on devices and heterogeneous equipment in an intelligent environment independently of the application domain.

URL: <http://www.tecnologico.deusto.es/projects/smartlab/>

ZAINGUNE - Platform for Enabling Assistive Services in Home Environments

Financing body: GOBIERNO VASCO – INTEK-BERRI GAITEK 2006

Companies involved: TECDOA S.L, IRONTEC S.L y VISESA

Duration, from: September 2006 until: December 2007

Amount financed: 22469 €

Size of team managed: 4 people

Summary: This project aimed to provide the software infrastructure needed for the intelligent control of home elements, such as sensors and actuators. Thus, it can provide assistive services that help people with physical disabilities or elder people with their daily activities. It combines the know-how of three different companies specialized on building automation (TECDOA), voice over IP (IRONTEC) and public housing (VISESA), with the support provided by the University of Deusto in middleware development and discrete rules reasoning.

URL: <http://www.tecnologico.deusto.es/projects/zaingune>

Sentient Graffiti: A mobile mash-up platform for Ubiquitous Web

Financing body: Cátedra Movistar – Universidad de Deusto

(<http://www.ctmd.deusto.es>)

Duration, from: July 2006 until: July 2007

Amount financed: 21500 €

Size of team managed: 3

Summary: a Web 2.0-based platform to create and search for virtual annotations consisting of multimedia content or web services over physical objects and locations from both mobile clients and web browsers. It is a context-aware mobile mash-up and folksonomy system.

Url: <http://www.ctmd.deusto.es/dsg/>

2005-2006 **AMILETS: Platform for the development and deployment of Simpler Ambient Intelligence Systems**

Financing Body: Basque Government - SAIOTEK 2005

Duration, from: October 2005 until: December 2006

Amount financed: 39952 €

Size of team managed: 5

Summary: This project produced a set of middleware tools to facilitate the creation, deployment and control of intelligent objects in intelligent environments using mobile devices. It also dealt with the adaptation of web technologies, particularly Web Services and simple Semantic Web ontologies to represent user profiles in small embedded hardware platforms distributed in the environment and to control them using mobile phones and PDAs. This software was awarded with the Microsoft Spain Imagine Cup 2005 national award.

SemB-UDDI: Semantic UDDI register of Basque high-tech companies

Financing body: Education and Research Departments (Basque Government), CodeSyntax

Companies involved: CodeSyntax

Duration, from: January 2005 until: December 2006

Amount financed: 42200 €

Size of team managed: 5

Summary: This project aimed to define a service registry for multilingual semantics web services (Spanish, Euskera and English) to improve the traditional web service registry, called UDDI, adding semantic reasoning capabilities. Ontologies (OWL) to represent concepts and semantic web services (OWL-S) were used to introduce the semantic capabilities.

2004-2005 **MobileSense: Adding Senses to Mobile Devices**

Financing body: Cátedra Movistar – Universidad de Deusto
(<http://www.ctmd.deusto.es>)

Duration, from: October 2004 until: July 2005

Amount financed: 6000 €

Size of team managed: 3

Description: This project prototyped the software required to transform a mobile device into a sentient device capable of seeing, hearing and speaking.

Url: <http://paginaspersonales.deusto.es/dipina/tripweb/mobilesense.htm>

COMMBOTS: Remote Control of M2M Communication-enhanced Mobile Robots

Financing body: Gobierno Vasco

Companies involved: OWASYS

Duration, from: October 2003 until: December 2004

Amount financed: 45000 €

Size of team managed: 5

Description: This project tackled the development of an embedded middleware

for controlling mobile microbots equipped with sensors, actuators, cameras and other electronic devices (PDAs or mobile phones) using wireless communication Technologies as Bluetooth, Wi-Fi (802.11b) and GSM/GPRS.
Url: <http://www.ctmd.deusto.es/images/ProyectosCatedra/COMMBOTS/>

- 1998-2001 **TRIP: Target Recognition Using Image Processing**
Financing body: AT&T Laboratories, Cambridge, England, UK
Companies involved: AT&T and the University of Cambridge
Duration, from: October 1998 until: January 2001
Amount financed: 20000 €
Description: TRIP is a cost-efficient and versatile 3D location sensor technology. Only low-cost (e.g. web-cams below €50), low-resolution (640x480 pixel) cameras are required. The spare computing resources within a LAN can be allocated to run the TRIP image parsing software, without the need of investing in new PCs. Commonly available monochromatic printers can be used to print out the black and white TRIPtags. The off-the-shelf hardware requirements and software nature of TRIP make possible its installation in offices, or event at homes, equipped with some PCs, without requiring significant additional costs or expert technical knowledge. A medium size (4x4 m²) room could be visually covered with three or four cameras.

Software developed

- 2003-present
2006 Main architect in software solutions for all the earlier mentioned directed research project. I carried out core software contributions to all of them.
AJAX DataGrid for OpenBravo.com
- Advanced JavaScript data grid to enhance user interface of OpenBravo ERP
- 2003 DocMan – Document Management System for Pelikon Ltd.
- J2EE-based Distributed document management system integrating databases scattered in two locations for <http://www.pelikon.com/>
- 2002 Design and development of J2EE architectures for Network Operators.
- Advanced use of EJB, JSP/servlet, XSL, SQL and SOAP technologies.
 - Assessment/test of .NET as an alternative to J2EE for enterprise server apps.
- 1998-2001 TRIP: a low-cost vision-based indoors object tracking system
- Uses advanced Computer Vision and Image Processing algorithms.
 - Implemented in C++ and made distributed with CORBA.
- 2001 ECAServer: an Event-Condition-Action Rule Matching Service.
- Implemented in Java and Jess, extends OMG Notification Service.
- 1999 LocALE: a CORBA-based service activation, migration and deactivation framework.
- Implemented in C++ using omniORB and gdbm.
- 1998 Java-based Interactive Video on Demand (Swing) Client for teaching Film studies using Oracle Video Server and an Oracle 8 RDBMS.

Scientific publications

In what follows you can find my publications in reversed chronological order. **Journal articles, book chapters, PhD and MSc dissertations:**

- Social devices: autonomous artifacts that communicate on the Internet, Juan Ignacio Vazquez and Diego López-de-Ipiña, Proceedings of Internet of Things 2008 (<http://www.the-internet-of-things.org/>), March 26-28, 2008, Zurich, Switzerland.
- A Web 2.0 Platform to Enable Context-Aware Mobile Mash-ups, Diego López-de-Ipiña, Juan Ignacio Vazquez and Joseba Abaitua, Proceedings of Aml-07: European Conference on Ambient Intelligence, November 7-10, Darmstadt, Germany, B. Schiele et al. (Eds.): Aml 2007, LNCS 4794, pp. 266–286, 2007, ISSN 0302-9743, ISBN-10 3-540-76651-0
- mRDP: An HTTP-based lightweight semantic discovery protocol, Juan Ignacio Vazquez and Diego López-de-Ipiña Computer Networks: The International Journal of Computer and Telecommunications Networking, Elsevier North-Holland Publisher, Inc., ISSN:1389-1286 vol. 51 , no. 16, pp. 4529-4542, November 2007
- SoaM: A Web-powered Architecture for Designing and Deploying Pervasive Semantic Devices, Vazquez J.I., López de Ipiña D. and Sedano I., International Journal of Web Information Systems - IJWIS, 2007. (to be published)
- SOAM: An Environment Adaptation Model for the Pervasive Semantic Web, Vazquez J.I., López de Ipiña D. and Sedano I., 2nd Ubiquitous Web Systems and Intelligence Workshop (UWSI 2006) at ICCSA 2006, Glasgow, Scotland, Lecture Notes in Computer Science, LNCS 3983, ISBN 978-3-540-34077-5, May 2006
- Questions and Answers for Designing Useful WebLabs. García-Zubía J., López de Ipiña, D., Orduña, P., Hernández, U. and Trueba I., International Journal of Online Engineering, Special Issue REV 2006, vol. 2., no. 3., ISSN: 1861-2121, July 2006, <http://www.ijoe.org/ojs/>
- A Middleware for the Deployment of Ambient Intelligent Spaces, Diego López de Ipiña, Juan Ignacio Vázquez, Daniel García, Javier Fernández, Iván García, David Sainz and Aitor Almeida, Ambient Intelligence in Everyday Life, Springer, Lecture Notes in Artificial Intelligence, LNAI 3864, ISSN 0302-9743, pp. 239-255, 2006
- EMI2lets: a Reflective Framework for Enabling Aml, Diego López de Ipiña, Juan Ignacio Vázquez, Daniel García, Javier Fernández, Iván García, David Sainz and Aitor Almeida, Journal of Universal Computer Science (J.UCS), vol. 12, no. 3, pp. 297-314, March 2006
- Evolving towards better architectures for remote laboratories: a practical case. Javier Garcia Zubía, Diego López de Ipiña y Pablo Orduña. International Journal of Online Engineering, vol. 1, no. 2, Special Issue REV 2005, ISSN: 1861-2121, <http://www.ijoe.org>, November 2005
- Multilingual Approaches to Text Categorisation. J. J. García Adeva, Rafael A. Calvo, and Diego López de Ipiña. UPGRADE: The European Journal for the Informatics Professional, Vol. VI, No. 3, pp. 43 - 51, June 2005.
- Towards a clinical practice guideline implementation for asthma treatment. Larburu I.U., Pikatza J.M., Sobrado F. J, García J.J. y López deIpiña D. Lecture Notes in Artificial Intelligence, “Current Topics in Artificial Intelligence”, Springer-Verlag, Volumen 3040 / 2004, Págs. 587 - 596, 2004, ISBN: 3-540-22218-9.
- TRIP: a Low-Cost Vision-Based Location System for Ubiquitous Computing. Diego López de Ipiña, Paulo Mendonça and Andy Hopper, Personal and Ubiquitous Computing journal, Springer, vol. 6, no. 3, pp. 206-219, May 2002.
- Visual Sensing and Middleware Support for Sentient Computing. Diego López de Ipiña, , PhD thesis, Cambridge University Engineering Department, January 2002
- TRIP: A Distributed vision-based Sensor System". Diego López de Ipiña, Ph.D. 1st Year Report, LCE, Cambridge University Engineering Department, UK. 31 August 1999
- Criteria for the Design of a Platform Independent Distance Learning System. Diego López de Ipiña, M.Sc. in Computer Science (DIMS) Dissertation, University of Essex, UK. September 1998. This thesis was awarded with Distiction grade. Java source code also available!

Articles in Conference Proceedings:

- Touch Computing: Simplifying Human to Environment Interaction through NFC Technology, Diego López-de-Ipiña, Juan Ignacio Vazquez and Iker Jamardo, 1as Jornadas Científicas sobre RFID, Ciudad Real, 21-23 November 2007. Awarded "Best Workshop Paper" prize.
- A Context-Aware Mobile Mash-up Platform for Ubiquitous Web, D. López-de-Ipiña, J.I. Vazquez, J. Abaitua, Proceedings of 3rd IET International Conference on Intelligent Environments, September 24-25, Ulm, Germany
- A Semantic Matching Algorithm for Discovery in UDDI, Unai Aguilera, Joseba Abaitua, Josuka Díaz, David Buján and Diego López de Ipiña, ICSC 2007, First IEEE International Conference on Semantic Computing, September 17-19, 2007
- Principles and experiences on creating semantic devices, Juan Ignacio Vazquez, Diego López-de-Ipiña Proceedings of 2nd International Symposium on Ubiquitous Computing & Ambient Intelligence (UCAmI 2007), September 11-14, 2007
- Transforming MFPs into Ubiquitous Computing Devices, Diego López-de-Ipiña, Juan Ignacio Vazquez and JosuKa Díaz, Proceedings of 2nd International Symposium on Ubiquitous Computing & Ambient Intelligence, September 11-14, 2007
- Remote Control of Web 2.0-enabled Laboratories from Mobile Devices, López de Ipiña, D., García-Zubia J. and Orduña P., 2nd IEEE International Conference on e-Science and Grid Computing, eScience 2006, Amsterdam (Netherlands), December 2006, ISBN 0-7695-2734-5
- Context-Aware Mobile Mash-up for Ubiquitous Web, López de Ipiña D., Vázquez J.I. and Abaitua J., Proceedings of 2nd International Workshop on Ubiquitous Computing and Ambient Intelligence, Puertollano, Spain, ISBN: 84-6901744-6, pp. 19-34, November 2006
- Accessing WebLabs from cellular phones. García Zubía, J., López de Ipiña D. and Orduña P. , IECON 2006, 31st Annual Conference of the IEEE Industrial Electronics Society, Paris, France, November 2006
- Evaluation of Orchestrated Reactivity of Smart Objects in Pervasive Semantic Web Scenarios, Vazquez J.I., Sedano I. and López de Ipiña D., Workshop on Semantic Web for Ubiquitous and Mobile Applications. European Conference on Artificial Intelligence - ECAI 2006, Riva del Garda (Italy), August 2006
- A Passive Influence Model for Adapting Environments based on Semantic Preferences, Vazquez J.I., López de Ipiña D. and Sedano I., Proceedings of Combining Theory and Systems Building - CTSB Workshop at Pervasive 2006, Dublin (Ireland), May 2006
- A platform to build smart spaces controllable from mobile devices. D. López-de-Ipiña, J. I. Vazquez, D. García, J. Fernández, I. García, D. Sainz, A. Almeida, IE06, 2nd International Conference on Intelligent Environments, Athens, 5-6 July 2006
- Towards a canonical software architecture for multi-devices WebLabs. Javier García Zubía, Diego López de Ipiña y Pablo Orduña. IECON 2005, 31st Annual Conference of the IEEE Industrial Electronics Society, ISBN: 0-7803-9253, pp. 2146-2151, November 2005.
- A Reflective Middleware for Controlling Smart Objects from Mobile Devices. Diego López de Ipiña, Juan Ignacio Vázquez, Daniel Garcia, Javier Fernández and Iván García. Smart Objects & Ambient Intelligence. Grenoble, France. October 2005.
- Empowering Wireless UPnP Devices with WebProfiles. Juan Ignacio Vázquez and Diego López de Ipiña. 10th IFIP International Conference on Personal Wireless Communications. Colmar, France. August 2005.
- EMI2lets: A Reflective Framework for Enabling AmI. Diego López de Ipiña, Juan Ignacio Vázquez, Daniel Garcia, Javier Fernández and Iván García. Ubiquitous Computing & Ambient Intelligence. Granada, Spain. September 2005.
- WebProfiles: A Negotiation Model for User Awareness in Personal Area Networks. Juan Ignacio Vázquez and Diego López de Ipiña. Proceedings of MobiQuitous 2005 - The Second Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services, pp. 373-383. San Diego, USA. July 2005.

- Environment Adaptation Meeting User Preferentes. Juan Ignacio Vázquez and Diego López de Ipiña. Ambient Intelligence and (Everyday) Life. Donostia, Spain. July 2005.
- A Middleware for the Deployment of AmI Spaces. Diego López de Ipiña, Juan Ignacio Vázquez, Daniel Garcia, Javier Fernández and Iván García. Ambient Intelligence and (Everyday) Life. Donostia, Spain. July 2005.
- An Architecture for Sentient GPRS-enabled MicroBots. López de Ipiña, D., Vázquez, I., Ruiz de Garibay, J. and Sainz D., Proceedings 2005 IEEE International Symposium on Computational Intelligence in Robotics and Automation (CIRA2005), 0-7803-9355-4, pp. 145-150, June 27-30, 2005, Espoo, Finland.
- A Language for Expressing User-Context Preferences in the Web. Vázquez, I. and López de Ipiña, D., Special interest tracks and posters of the 14th International World Wide Web Conference (WWW2005). Chiba, Japan. May 2005
- Interacting with our Environment through Sentient Mobile Phones. López de Ipiña, D., Vázquez, I., and Sainz D., The Second International Workshop on Ubiquitous Computing (IWUC 2005), ISBN 972-8865-24-4, pp 19-27, May 24-25 2005, Miami, USA.
- GPRS-based Real-Time Remote Control of MicroBots with M2M Capabilities. López de Ipiña, D., Vázquez, I., Ruiz de Garibay, J. and Sainz D. The Fourth International Workshop on Wireless Information Systems (WIS 2005), ISBN 972-8865-21-X, pp 42-51, May 24-25 2005, Miami, USA.
- Accesibilidad para Discapacitados a través de Teléfonos y Servicios Móviles Adaptables. López de Ipiña, D.; Rodriguez A.; Vázquez, I., JANT 2004, Bilbao, SPAIN, Diciembre 2004.
- An Interaction Model for Passively Influencing the Environment. Vázquez J. I., and López de Ipiña D.. Adjunct Proceedings of the 2nd European Symposium on Ambient Intelligence. Eindhoven, The Netherlands. November 2004.
- "Evaluación de tecnología Java para la implantación de un proceso de desarrollo de software en PYMEs. Sobrado F. J., Pikatza J.M., Larburu I.U., García J.J. and López de Ipiña D. Proceedings of Decision Support in Software Engineering (ADIS). Alicante, Spain, 2003.
- Hacia la implementación de una guía de práctica clínica para el asma. Larburu I.U., Pikatza J.M., Sobrado F. J, García J.J. and López de Ipiña D. Proceedings of the 10th Conference of the Artificial Intelligence Spanish Association (CAEPIA). San Sebastián, Spain, 2003.
- Ayuda a la decisión en el proceso de desarrollo de la fase de elaboración de proyectos software. Larburu I.U., Pikatza J.M., Sobrado F. J, García J.J. and López de Ipiña D. 10th Conference of the Artificial Intelligence Spanish Association (CAEPIA). San Sebastián, Spain,
- Hacia la implementación de una herramienta de soporte al proceso de desarrollo de software. Larburu I.U., Pikatza J.M., Sobrado F. J, García J.J. and López de Ipiña D. Proceedings of the Workshop in Artificial Intelligence Applications to Engineering (AIAI). San Sebastián, Spain, 2003.
- An ECA Rule-Matching Service for Simpler Development of Reactive Applications. Diego López de Ipiña and Eleftheria Katsiri, Published as a supplement to the Proceedings of Middleware 2001 at IEEE Distributed Systems Online, Vol. 2, No. 7, November 2001
- Sentient Computing for Everyone. Diego López de Ipiña and Sai-Lai Lo, Proceedings of the 3rd International Conference on Distributed Applications and Interoperable Systems (DAIS'2001), pp. 41-52, ISBN 0-7923-7481-9, Krakow, Poland, September 17-19, 2001.
- Video-Based Sensing for Wide Deployment of Sentient Spaces. Diego López de Ipiña, Proceedings of 2nd PACT 2001 Workshop on Ubiquitous Computing and Communications, pp. 22-29, Barcelona, Catalonia, Spain, September 8-12, 2001
- LocALE: a Location-Aware Lifecycle Environment for Ubiquitous Computing. Diego López de Ipiña and Sai-Lai Lo, Proceedings of the 15th IEEE International Conference on Information Networking(ICOIN-15) , pp. 419-426, ISBN 0-7695-0951-7,Beppu City,

Japan. January 31 - February 2, 2001. **This work was awarded ICOIN-15's best student paper prize.**

- Building Components for a Distributed Sentient Framework with Python and CORBA, Diego López de Ipiña, Proceedings of the 8th International Python Conference, Arlington, VA, USA. January 24 - 27, 2000

Articles written for magazine "Sólo Programadores":

- Programando en Java la Web Semántica con Jena (y IV), Sólo Programadores, Diego López de Ipiña, Num 160, Abril 2008
- Programando en Java la Web Semántica con Jena (III), Sólo Programadores, Diego López de Ipiña, Num 159, Marzo 2008
- Programando en Java la Web Semántica con Jena (II), Sólo Programadores, Diego López de Ipiña, Num 158, Febrero 2008
- Programando en Java la Web Semántica con Jena (I), Sólo Programadores, Diego López de Ipiña, Num 157, Enero 2008
- OSGi: una plataforma modular y ligera de servicios para dispositivos (y III) Sólo Programadores, Diego López de Ipiña, Núm. 150, Junio 2007
- OSGi: una plataforma modular y ligera de servicios para dispositivos (II), Sólo Programadores, Diego López de Ipiña, Núm. 149, Mayo 2007
- OSGi: una plataforma modular y ligera de servicios para dispositivos (I), Sólo Programadores, Diego López de Ipiña, Núm. 148, Abril 2007
- Programando Mash-ups Web 2.0 con Google y Yahoo APIs (y III), Sólo Programadores, Diego López de Ipiña, Núm. 144, Diciembre 2006
- Programando Mash-ups Web 2.0 con Google y Yahoo APIs (II), Sólo Programadores, Diego López de Ipiña, Núm. 143, Noviembre 2006
- Programando Mash-ups Web 2.0 con Google y Yahoo APIs (I), Sólo Programadores, Diego López de Ipiña, Núm. 142, Octubre 2006
- Programación de aplicaciones web dinámicas con Ajax (y II), Sólo Programadores, Diego López de Ipiña, Núm. 133, Enero 2006
- Programación de aplicaciones web dinámicas con Ajax (I), Sólo Programadores, Diego López de Ipiña, Núm. 132, Diciembre 2005
- Inteligencia Ambiental: la presencia invisible, Sólo Programadores, Iñaki Vázquez y Diego López de Ipiña. Núm. 127, pp. 36-42, Julio 2005
- Programación distribuida en .NET (III), Sólo Programadores, Diego López de Ipiña. Núm. 125, pp. 36-42, Mayo 2005
- Programación distribuida en .NET (II), Sólo Programadores, Diego López de Ipiña. Núm. 124, pp. 36-42, Abril 2005
- Programación distribuida en .NET (I), Sólo Programadores, Diego López de Ipiña. Núm. 123, pp. 36-42, Marzo 2005
- Pensando en Python(y IV): XML, Java e IA, Sólo Programadores, Diego López de Ipiña. Núm. 121, pp. 36-42, Enero 2005
- Pensando en Python(III): tres en raya en la web, Sólo Programadores, Diego López de Ipiña. Núm. 120, pp. 22-28, Diciembre 2004
- Pensando en Python (II): tres en raya modo gráfico. Diego López de Ipiña. Revista Solo Programadores, n° 119, Noviembre 2004.
- Pensando en Python (I): tres en raya modo texto. Diego López de Ipiña. Revista Solo Programadores, n° 118, Octubre 2004.

The last talks I have given are:

- University of Deusto Summer Courses, Talk "Lower-s Semantic Web or the 'Easier and More Usable Semantic Web'", 17 July 2007, Faculty of Engineering, Bilbao
- Lectio Brevis, Ambient Intelligence: the future of computer science, new engineers graduation, Universidad de Deusto, 10 March 2007

- Últimas Tendencias en Desarrollo de Software Empresarial: SOA y Web 2.0, Dr. Diego Lz. de Ipiña Gz. de Artaza, Araba Enpresa Digitala (<http://www.arabadigitala.com/>), 4-7pm, 4 de Mayo 2006, Parque Tecnológico Miñano, Álava, Spain
- Web 2.0, Mobile Devices and Ubiquitous Web, Dr. Diego Lz. de Ipiña Gz. de Artaza, Jornadas Web 2.0 en la Universidad de Deusto, <http://www.blogak.org/>, Sesión Geographical Mash-ups, 6 April 2006, Bilbao, Spain
- Servicios de Comunicaciones Móviles combinando Redes PAN y WAN. Diego López de Ipiña, II Jornadas sobre Tecnologías Inalámbricas Hands on Wireless & Mobile, Auditorio Parque Tecnológico, Edificio 101, Zamudio, Bizkaia, 16 Noviembre 2005.
- COMMBOTS: Robótica + M2M. Diego López de Ipiña, Feria MovilForum 2004, 1 de Diciembre, Madrid.
- "Making Ubiquitous Computing Reality", charla llevada a cabo con motivo de la Semana ESIDE 2004 el día 17 de Marzo.
- Código fuente del sensor TRIP, generador de códigos TRIP y demo que muestra su uso.
- "Servicios Móviles Sensibles al Contexto", Diego López de Ipiña e Iñaki Vázquez, Ponencia presentada en Feria MovilForum 2003, Diciembre 2003, Madrid.
- "EMI²: Interacción inteligente con el entorno a través del teléfono móvil", Diego López de Ipiña, Iñaki Vázquez, Ponencia presentada en Taller de Computación Ubicua e Inteligencia Ambiental, CAEPIA 2003, San Sebastián, Spain, September 2003

Conference Reviews

- Program Committee and Chair for Special Session on Middleware for Intelligent Environments, Third IET International Conference on Intelligent Environments, <http://conferences.theiet.org/ie08/>, July 2008
- Reviewer for IEEE Internet Computing, Special Issue on "Service Mash-ups", March 2008
- Program Committee and Chair for Special Session on Middleware for Intelligent Environments, Third IET International Conference on Intelligent Environments, <http://www.uni-ulm.de/ie07/committee.html>, September 2007
- Program Committee member for Third International Workshop on Ubiquitous Computing & Ambient Intelligence 2007, <http://mami.uclm.es/ucami07/modules.php?name=News&file=article&sid=3>, September 2007
- Program Committee member for Second International Workshop on Ubiquitous Computing & Ambient Intelligence 2006, <http://mami.uclm.es/wucami/modules.php?name=News&file=article&sid=3>, November 2006
- Program Committee member for Fifth Workshop on Wireless Information Systems, ICEIS 2006, <http://www.iceis.org/iceis2006/workshops/wis/wis2006-cfp.html>, May 2006

Awards and grants

- | | |
|------|--|
| 2007 | <ul style="list-style-type: none"> • 1st Spanish RFID Conference, prize to the best scientific contribution • Prize of Innovation in the province of Alava, Basque Country, granted by the Araba Emprnde initiative for directing the OdolPlan research project. • Supervisor of student project EnterpriseController who won the Spanish Edition of 2007 Ricoh & Java Sun Programming Contest |
| 2006 | <ul style="list-style-type: none"> • Supervisor of student project RingCode2Job who won the 2006 Spanish |

- 2005 Edition of Ricoh & Java Sun Programming Contest
 - Supervisor of student project EMI2lets who won the Spanish Edition of Imagine Cup 2005
- 2001
 - ICOIN-15 conference best student paper prize
- 1998-2001
 - Basque government education department
 - Grant for Ph.D. studies at Cambridge University.
- 1997-1998
 - Basque government education department
 - Grant for M.Sc. studies at University of Essex.
- 1996-1997
 - Amarika Foundation Grant for high performing Basque students

Computing skills

- Expert on object-oriented analysis and systems architecture design (UML).
- Expert level in object-oriented and web programming with: Java, C++, C, C#, Python, Ruby, CLIPS, VB, C++, AJAX, XML, XSL, JSP, JavaScript, CSS, and HTML.
- Expert on Mobile Device Programming and Service Development (Java ME, WAP, Wap Push, Messaging).
- Expert level in database design and implementation using SQL and PL/SQL for Oracle, MySQL, LINQ.NET, Hibernate and Sqlite3.
- Expert in distributed systems design and programming with TIBCO RV, CORBA, .NET (C#, Web Services, WCF)
- Expert in Web programming with Java EE (EJBs, servlets, JMS, RMI-IIOP, SOAP, Spring, Struts), Django, Ruby on Rails and JavaScript AJAX frameworks to build Web 2.0 mash-ups.
- Expert on XML and semantic web related technologies such as XML, XPATH, XSLT, RDF, RDFS, OWL, SPARQL, GRDDL, RDFa, microformats or the Jena Java framework.