

Curriculum Vitae

Name: José Enrique Armendáriz Íñigo

Date: January 04th 2009

Last Name: **Armendáriz Iñigo**
Birthdate : **01/May/1976**

Fist Name: **José Enrique**
Gender: **Male**

Current Job Position

Institution: **Universidad Pública de Navarra**
Dpt.: **Departamento de Ingeniería Matemática e Informática**
Adress: **Campus de Arrosadía s/n, 31006 Pamplona (Spain)**

Phone: **+34 948 16 80 56**
Fax: **+34 948 16 95 21**
e-mail: **enrique.armendariz@unavarra.es**

Category: Temporary Associate Professor (*Profesor Sustituto de la Docencia*)

Start date: October 1st 2008

Research Lines

DISTRIBUTED SYSTEMS, CONCURRENT SYSTEMS, DISTRIBUTED ALGORITHMS, DATABASE REPLICATION, MIDDLEWARE, GROUP COMMUNICATION SYSTEMS.

Academic Formation

Title	Center	Date
Telecommunication Engineering	Universidad Pública de Navarra	April 2001
Advanced Studies Diploma	Universidad Pública de Navarra	June 2003
Ph. D.	Universidad Pública de Navarra	February 2006

Previous Jobs or Scientific Activities

Job	Institution	Dates
Network Engineer	Deutsche Telekom (T-Mobil)	01/05/01 - 26/05/01
Software Engineer	GLOBDATA Project	01/07/01 - 31/10/02
Part Time Assistant Professor	Universidad Pública de Navarra	01/11/02 – 30/09/03
Lecturer	Universidad Pública de Navarra	01/10/03 – 31/05/06 (Interr.)
Researcher	Instituto Tecnológico de Informática	01/06/06 – 31/05/07
Lecturer	Universidad Pública de Navarra	01/06/07 – 30/09/08
Temporary Associate Professor	Universidad Pública de Navarra	01/10/08 –

Teaching Activities

Kind of Position: **PROFESOR ASOCIADO TP2** Starting Date: **01/11/2002** Ending Date: **30/09/2003**

Center: **FACULTAD DE CIENCIAS ECONÓMICAS Y EMPRESARIALES** Dedication: Full-Time Part-Time

Institution: **UNIVERSIDAD PÚBLICA DE NAVARRA**

Kind of Teaching: First Cycle Second Cycle Doctorate Postgrade

Courses Taught and Degree (brief description):

- **“INFORMÁTICA BÁSICA”. SECOND YEAR OF “DIPLOMATURA EN CIENCIAS EMPRESARIALES”. INTRODUCTION TO THE USAGE AND KNOWLEDGE OF MS EXCEL. TWO LAB GROUPS (4H/WEEK ONE SEMESTER).**
- **“PROGRAMACIÓN AVANZADA”. SECOND YEAR OF “INGENIERÍA TÉCNICA EN INFORMÁTICA DE GESTIÓN” (THIS WAS THE FIRST YEAR OF THIS SUBJECT IN THE UNIVERSITY). INTRODUCTION TO OBJECT ORIENTED PROGRAMMING USING JAVA. THE ONLY ONE THEORY GROUP (2H/W, 1 SEM) Y TWO LAB GROUPS (4H/W, 1 SEM).**

Kind of Position: **PROFESOR AYUDANTE LOU** Starting Date: **01/10/2003** Ending Date: **01/06/2006**

Center: **ESCUELA TÉCNICO SUPERIOR DE INGENIEROS INDUSTRIALES Y DE TELECOMUNICACIÓN** Dedication: Full-Time Part-Time

Institution: **UNIVERSIDAD PÚBLICA DE NAVARRA**

Kind of Teaching: First Cycle Second Cycle Doctorate Postgrade

Courses Taught and Degree (brief description):

- **“PROGRAMACIÓN AVANZADA”. SECOND YEAR OF “INGENIERÍA TÉCNICA EN INFORMÁTICA DE GESTIÓN”. COURSES: 2003/2004, 2004/2005, 2005/2006. THE ONLY THEORY GROUP (2HOURS/WEEK, 1 SEMESTER) AND TWO LABS GROUPS (4H/W, 1 SEM).**
- **“PROGRAMACIÓN”. FIRST YEAR OF “INGENIERÍA TÉCNICA EN INFORMÁTICA DE GESTIÓN”. COURSE: 2003/2004, 2007/2008. INTRODUCTION TO PROGRAMMING USING PASCAL. ONE LAB GROUP (2H/W, 1 SEM) AND ONE EXERCISES GROUP (1H/W, 1 SEM)**
- **“AMPLIACIÓN DE SISTEMAS OPERATIVOS”. THIRD YEAR OF “INGENIERÍA TÉCNICA EN INFORMÁTICA DE GESTIÓN”. COURSE: 2004/2005. INTRODUCTION TO DISTRIBUTED COMPUTING BY WAY OF JAVA (RMI, CORBA). ONE LAB GROUP (2H/W, 1 SEM)**
- **“INFORMÁTICA BÁSICA”. SECOND YEAR OF “DIPLOMATURA EN CIENCIAS EMPRESARIALES”. COURSE: 2007/2008. INTRODUCTION TO THE USAGE AND KNOWLEDGE OF MS EXCEL. ONE LAB GROUP (2H/WEEK ONE SEMESTER).**
- **“MÓDULO DE GESTIÓN DE SISTEMAS INFORMÁTICOS”. OWN TITLE OF THE UNIVERSITY FOR POST-GRADUATES “EXPERTO EN**

**NUEVAS TECNOLOGÍAS DE LA INFORMACIÓN Y LAS
COMUNICACIONES PARA LA GESTIÓN EMPRESARIAL". OOP WITH
JAVA, JDBC, NETWORK PROGRAMMING, RMI, CORBA. 60 HOURS.**

R&D Projects Supported by Public Organizations.

Project Title: **AN EFFICIENT SOFTWARE TOOL FOR GLOBAL DATA ACCESS. GLOBDATA. IST-1999-20997**

Supporting Entity: EUROPEAN UNION

Participants: UNIVERSIDAD PÚBLICA DE NAVARRA, INSTITUTO TECNOLÓGICO DE INFORMÁTICA, UNIVERSIDAD DE LISBOA, GFI, IDIEIKON.

Duration, since: 1/11/2000 until: 31/12/2002 Amount: 106781 €. (en la UPNA)

Main Researcher: JOSÉ RAMÓN GONZÁLEZ DE MENDÍVIL MORENO

Number of researchers: 8 (at UPNA)

Project Title: **SERVICIO DE PERSISTENCIA PARA LA HERRAMIENTA GLOBDATA.**

Supporting Entity: GOBIERNO DE NAVARRA

Participants: UNIVERSIDAD PÚBLICA DE NAVARRA

Duration, since: 1/1/2000 until: 31/12/ 2002 Amount: 9316 €

Main Researcher: ALBERTO CÓRDOBA IZAGUIRRE

Number of researchers: 3

Project Title: **ANÁLISIS, DISEÑO E IMPLANTACIÓN DE TÉCNICAS PESIMISTAS PARA EL CONTROL DE CONCURRENCIA EN SISTEMAS DISTRIBUIDOS DE OBJETOS REPLICADOS Y PERSISTENTES.**

Supporting Entity: MINISTERIO DE CIENCIA Y TECNOLOGÍA

Participants: UNIVERSIDAD PÚBLICA DE NAVARRA, INSTITUTO TECNOLÓGICO DE INFORMÁTICA

Duration, since: 1/11/2003 until: 1/11/2006 Amount: 153000 €

Main Researcher: JOSÉ RAMÓN GONZÁLEZ DE MENDÍVIL MORENO

Number of researchers: 11

Project Title: **ANÁLISIS, DISEÑO E IMPLEMENTACIÓN DE PORTALES DE APRENDIZAJE ALTAMENTE DISPONIBLES. APLICACIÓN AL ESTUDIO DE ALGORITMOS DISTRIBUIDOS EN ENTORNOS EDUCATIVOS DE ENSEÑANZA SUPERIOR.**

Supporting Entity: GOBIERNO DE NAVARRA - DEPARTAMENTO DE EDUCACIÓN. PA03023

Participants: UNIVERSIDAD PÚBLICA DE NAVARRA

Duration, since: 1/01/2004 until: 31/12/2005 Amount: 23495 €

Main Researcher: JESÚS VILLADANGOS ALONSO

Number of researchers: 6

Project Title: **CONFIA - DE LOS ENTORNOS ESTÁTICOS A LOS ENTORNOS DINÁMICOS: CUESTIONES DE CONSISTENCIA, RECUPERACIÓN Y FIABILIDAD.**

Supporting Entity: COMISIÓN INTERMINISTERIAL DE CIENCIA Y TECNOLOGÍA

Participants: UNIVERSIDAD PÚBLICA DE NAVARRA, INSTITUTO TECNOLÓGICO DE INFORMÁTICA

Duration, since: 1/12/2006 until: 1/12/2009 Amount:

Main Researcher: JOSÉ RAMÓN GONZÁLEZ DE MENDÍVIL MORENO

Number of researchers:

Publications or Scientific-Technical Reports

(KEY: B = Book, BC = Book chapter, A = Article, R = Review, E = Editor, S = Restricted or Public Tech. Reports.)

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, and J. Villadangos.

Title: **"Globdata Uniform Data Store (UDS-API)"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_UDS_API_2.0 Pages, from: 1 to: 18 Date: July 2001
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, and J. Villadangos.

Title: **"Globdata Persistent Metadata (PER-API)"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_PER_API_1.0 Pages, from: 1 to: 21 Date: July 2001
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, and J. Villadangos.

Title: **"Globdata Uniform Data Store: Object Repository and Persistent Metadata"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_UDS_3.0 Pages, from: 1 to: 27 Date: July 2001
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, M. Larrea and J. Villadangos.

Title: **"Globdata Administrator (ADM-API)"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_ADM_1.0 Pages, from: 1 to: 11 Date: July 2001
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): ITI, UPNA (Grupo de Sistemas Distribuidos), FCUL

Title: **"Deliverable 05 (Workpackage 01): Programmer's manual (GLOBADATA)"**

Ref. journal Book
Key: S Volume: Pages, from: 1 to: 274 Date: September 2001
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): UPNA. Grupo de Sistemas Distribuidos

Title: **"Deliverable 06 (Workpackage 04): Databases Programming Interface (GLOBADATA)"**

Ref. journal Book
Key: S Volume: Pages, from: 1 to: 211 Date: December 2001
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): E.M. Martínez, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, J. Villadangos, I. Arribas and J.E. Armendáriz.

Title: **"GODL Compiler: A compiler for GLOBDATA Object Definition Language"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_GODL_3.0 Pages, from: 1 to: 111 Date: November 2002
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, I. Arribas, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, R.Mangas and J. Villadangos.

Title: **"GOQL: Globdata Object Query Language"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_GOQL_3.0 Pages, from: 1 to: 44 Date: November 2002
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, I. Arribas, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, R.Mangas and J. Villadangos.

Title: **"GOQLCompiler: A Compiler for Globdata Queries Language"**

Ref. journal Book
Key: S Volume: WP 01/04 Pages, from: 1 to: 36 Date: November 2002
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, J. R. González de Mendivil and A.B. Mindeguía.

Title: **"GODL-SE: A GODL Compiler to evolve the schema of a database"**

Ref. journal Book
Key: S Volume: WP 06/07 UPNA_GODLE_2.0 Pages, from: 1 to: 67 Date: November 2002
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, F.Fariña, J.R. Garitagoitia, J. R. González de Mendivil, and J. Villadangos.

Title: **"Uniform Data Store"**

Ref. journal Book
Key: S Volume: WP 01/04 UPNA_UDS_5.0 Pages, from: 1 to: 110 Date: November 2002
Publisher (if book):
Publication place: Pamplona (Spain)

Authors (sorted by signature): A. Córdoba, J. E. Armendáriz, J. J. Astrain , J. Villadangos.

Title: **"A CORBA based dynamic replication service for e-commerce"**

Ref. journal Book
Key: CL Volume: Pages, from: 49 to: 60 Date: July 2001
Publisher (if book): Editorial Kronos (ISBN: 84-86273-81-1)
Publication place: Sevilla (Spain)

Authors (sorted by signature): J.E. Armendáriz, J.R. González de Mendivil y F.D. Muñoz-Escóí.

Title: **"A Semi-Optimistic Concurrency and Recovery Algorithm Design for the COPLA Software Architecture"**

Ref. journal Book
Key: S Volume: TR ITI-ITE-04/03 Pages, from: 1 to: 26 Date: November 2004
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.E. Armendáriz, J. J. Astrain, A. Córdoba, J.R.G. de Mendivil, J. Villadangos.

Title: **"Implementación de ODL para proporcionar persistencia en SGBDRs a sistemas replicados orientados a objetos"**

Ref. journal

Book

Key: A Volume: 2, núm. 1 Pages, from: to: Date: January 2005

Publisher (if book): International Institute of Informatics and Cybernetics. Revista Iberoamericana de Sistemas, Cibernética e Informática. ISSN: 1690-8627

Publication place: USA

Authors (sorted by signature): J.E. Armendáriz, J.R. Garitagoitia, J.R. González de Mendivil y F.D. Muñoz-Escóí.

Title: **"A Basic Replication and Recovery Protocol for the MADIS Middleware Architecture"**

Ref. journal

Book

Key: S Volume: TR ITI-ITE-05/01 Pages, from: 1 to: 24 Date: July 2005

Publisher (if book):

Publication place: Valencia (Spain)

Authors (sorted by signature): J.E. Armendáriz, F.D. Muñoz-Escóí, J.R. Garitagoitia y J.R. González de Mendivil.

Title: **"Design of a MidO2PL Database Replication Protocol in a Middleware Architecture"**

Ref. journal

Book

Key: S Volume: TR ITI-ITE-05/09 Pages, from: 1 to: 16 Date: Oct 2005

Publisher (if book):

Publication place: Valencia (Spain)

Authors (sorted by signature): J.E. Armendáriz, F.D. Muñoz-Escóí, M.I. Ruiz-Fuertes, J.R. González de Mendivil y L. Irún-Briz.

Title: **"Dealing with Writese Conflict in Database Replication Middlewares"**

Ref. journal

Book

Key: S Volume: TR ITI-ITE-05/11 Pages, from: 1 to: 16 Date: Dec 2005

Publisher (if book):

Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo.

Title: **"A Fast Implementation of a Reliable Multicast System"**

Ref. journal

Book

Key: S Volume: TR UPNA-MatInfor-01-06 Pages, from: 1 to: 15 Date: Apr 2006

Publisher (if book):

Publication place: Pamplona (Spain)

Authors (sorted by signature): J. R. González de Mendivil, J. E. Armendáriz-Iñigo, J.R. Garitagoitia, L. Irún-Briz, F. D. Muñoz-Escóí.

Title: **"Non-blocking ROWA Protocols Implement GSI Using SI Replicas"**

Ref. journal

Book

Key: S Volume: TR ITI-ITE-06/04 Pages, from: 1 to: 15 Date: Jun 2006

Publisher (if book):

Publication place: Valencia (Spain)

Authors (sorted by signature): J. E. Armendáriz-Iñigo, J. R. Garitagoitia, F. D. Muñoz-Escóí, J. R. González de Mendivil.

Title: **"MADIS-SI: A Database Replication Protocol with Easy Recovery"**

Ref. journal

Book

Key: S Volume: TR ITI-ITE-06/05 Pages, from: 1 to: 22 Date: Jun 2006

Publisher (if book):

Publication place: Valencia (Spain)

Authors (sorted by signature): L.H. García-Muñoz, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.

Title: **"Recovery Protocols For Replicated Databases - A Minimal Survey"**

Ref. journal Book
Key: S Volume: TR ITI-ITE-06/07 Pages, from: 1 to: 2 Date: Oct 2006
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): L.H. García-Muñoz, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.
Title: **“Associating Replication and Recovery Protocols For Replicated Databases”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-06/08 Pages, from: 1 to: 2 Date: Oct 2006
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. Juárez-Rodríguez, J.R. González de Mendivil.
Title: **“A Recovery Protocol for Middleware Replicated Databases Providing GSI”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-06/10 Pages, from: 1 to: 12 Date: Nov 2006
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): R. Salinas-Monteagudo, J.M. Bernabé-Gisbert, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.
Title: **“SIRC-Rep, a Multiple Isolation Level Protocol for Middleware-based Data Replication Architectures”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/03 Pages, from: 1 to: 8 Date: Feb 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): L.H. García-Muñoz, R. de Juan-Marín, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.
Title: **“Adding Amnesia Support and Compacting Mechanisms to Replicated Database Recovery”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/08 Pages, from: 1 to: 19 Date: Apr 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): M.I. Ruiz-Fuertes, J. Pla-Civera, J.E. Armendáriz-Iñigo, J.R. González de Mendivil, F.D. Muñoz-Escóí.

Title: **“Revisiting Certification-Based Replicated Database Recovery”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/09 Pages, from: 1 to: 14 Date: May 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): R. de Juan-Marín, Luis Héctor García-Muñoz, J. E. Armendáriz-Iñigo and F.D. Muñoz-Escóí.
Title: **“Reviewing Amnesia Support in Database Recovery Protocols”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/11 Pages, from: 1 to: 17 Date: June 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): R. Salinas-Monteagudo, J.M. Bernabé-Gisbert, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. González de Mendivil.

Title: **“SIRC, a Multiple Isolation Level Protocol for Middleware-based Data Replication”**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/14 Pages, from: 1 to: 11 Date: June 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): R. Salinas-Monteagudo, J.M. Bernabé-Gisbert, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí, J.R. González de Mendivil.

Title: **"SIRC, a Multiple Isolation Level Protocol for Middleware-based Data Replication"**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/14 Pages, from: 1 to: 11 Date: June 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí, J.R. González de Mendivil, J.R. Garitagoitia.

Title: **"A Deterministic Database Replication Protocol Where Multicast Writesets Never Got Aborted"**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/15 Pages, from: 1 to: 15 Date: June 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, J.R. González de Mendivil, José Ramón Garitagoitia, F.D. Muñoz-Escoí.

Title: **"Weak Voting Database Replication Protocols Providing Different Isolation Levels"**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/16 Pages, from: 1 to: 34 Date: July 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): F.D. Muñoz-Escoí, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **"Database Replication Approaches."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/19 Pages, from: 1 to: 7 Date: Oct 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.E. Armendáriz-Iñigo, A. Mauch-Goya, J.R. González de Mendivil, F.D. Muñoz-Escoí.

Title: **"SIPRe: A Partial Database Replication Protocol with SI Replicas."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/21 Pages, from: 1 to: 10 Date: Oct 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. González de Mendivil, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí, J.R. Garitagoitia.

Title: **"Correctness Proof of a Middleware GSI Certification-Based Replication Protocol."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-07/17 Pages, from: 1 to: 34 Date: Dec 2007
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): F.D. Muñoz-Escoí, R. de Juan-Marín, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **"Persistent Logical Synchrony."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/02 Pages, from: 1 to: 14 Date: Feb 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J. E. Armendáriz-Iñigo, J.R. Juárez-Rodríguez, J. R. González de Mendivil.

Title: **"Correctness Criteria for Replicated Database Systems with Snapshot Isolation Replicas."**

Ref. journal Book

Key: S Volume: TR ITI-ITE-08/03 Pages, from: 1 to: 17 Date: Mar 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): F.D. Muñoz-Escóí, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendívil.
Title: **"On Supporting Integrity Constraints in Relational Database Replication Protocols."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/05 Pages, from: 1 to: 13 Date: Mar 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. González de Mendívil, J.E. Armendáriz-Iñigo, J.R. Garitagoitia, F.D. Muñoz-Escóí.
Title: **"Certification-Based Database Replication Protocols under the Perspective of the I/O Automaton Model."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/06 Pages, from: 1 to: 29 Date: Mar 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. González de Mendívil.
Title: **"Extending Primary-Copy Database Replication Paradigm."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/07 Pages, from: 1 to: 14 Date: Mar 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): M.I. Ruiz-Fuertes, F.D. Muñoz-Escóí, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendívil.
Title: **"Integrity Dangers in Certification-Based Replication Protocols."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/13 Pages, from: 1 to: 15 Date: May 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): F.D. Muñoz-Escóí, M.I. Ruiz-Fuertes, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendívil.
Title: **"Extending Middleware Protocols for Database Replication with Integrity Support."**

Ref. journal Book
Key: S Volume: TR ITI-ITE-08/14 Pages, from: 1 to: 16 Date: May 2008
Publisher (if book):
Publication place: Valencia (Spain)

Authors (sorted by signature): F.D. Muñoz-Escóí, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendívil.
Title: **"Database Replication Approaches."** Book Chapter for the Second Edition of the "Encyclopedia of Database Technologies and Applications". (Accepted for publication).

Ref. Journal Book
Key: BC Volume: Pages, from: to: Date:
Publisher (if book): IGI Global
Publication place: USA

Authors (sorted by signature): J.R. González de Mendívil, J. E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. Garitagoitia.
Title: **"A Formal Analysis of Database Replication Protocols with SI Replicas and Crash Failures"**. The Journal of Supercomputing. Springer. (Accepted for publication).

Ref. Journal Book
Key: A Volume: Pages, from: to: Date:
Publisher (if book): Springer

Publication place: Germany

Authors (sorted by signature): J.E. Armendáriz-Iñigo, J.R. Juárez-Rodríguez, J.R. González de Mendivil, J.R. Garitagoitia, F.D. Muñoz-Escóí, L. Irún-Briz.

Title: **“Relaxed Approaches for Correct DB-Replication with SI Replicas”**. Software and Data Technologies - ICSOFT 2008. Communications in Computer and Information Science. Springer-Verlag. (*Accepted for publication*).

Ref. Journal

Book

Key: BC Volume:

Pages, from: to:

Date:

Publisher (if book): Springer

Publication place: Germany

Research Center Stays
(Continuous Stays for Periods Longer than 1 Month)

KEY: D = Doctorate, P = Post-Doctorate, I = Invited, H = Hired, O = Other (specify).

Center: Instituto Tecnológico de Informática. Grupo de Sistemas Distribuidos.
City: Valencia Country: Spain Starting date: 01/06/2006 Duration (weeks): 52
Topic: Middleware Replication/Recovery Database Techniques. Correctness Criteria for Data Consistency in Replicated Environments
Key: H

Center: McGill University. School of Computer Science
City: Montreal Country: Canada Starting date: 15/10/2006 Duration (weeks): 20
Topic: Middleware Replication/Recovery Database Techniques. Correctness Criteria for Data Consistency in Replicated Environments
Key: O (Visiting Scholar)

Center: Universidade do Minho
City: Braga Country: Portugal Starting date: 1/5/2008 Duration (weeks): 4
Topic: Dynamic Distributed Systems
Key: I

Contributions to Conferences

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. R. González de Mendivil, E. Martínez, J. Bataller.

Title: **A Persistent Object Storing Service for Use by Consistency Protocols.**

Sort of participation: Co-author and attendee

Conference: IASTED Applied Informatics. International Symposium on Software Engineering, Databases and Applications.

Publication: Conference Proceedings, págs 1-6; ISBN: 0-88986-322-9

Place: Innsbruck (Austria)

Date: 18-21 February 2002

Authors (sorted by signature): E.M. Martínez, J.J. Astrain, A. Córdoba, J. Villadangos, F. Fariña, J.E. Armendáriz

Title: **GODL-C: Un Compilador Para Un Lenguaje De Definición De Objetos**

Sort of participation: Co-author and attendee

Conference: XVII Simposium Nacional de la Union Científica Internacional de Radio.

Publication: Simposium Proceedings, pp. 269-280

Place: Alcalá de Henares (Madrid, Spain)

Date: 11-13 September 2002

Authors (sorted by signature): A. Córdoba, J.J. Astrain, J.E. Armendáriz, J.Villadangos and J. R. González de Mendivil.

Title: **A Service for Use by Consistency Protocols to Ensure Persistent Object Storing**

Sort of participation: Co-author

Conference: Simposio de Informática y Telecomunicaciones. 2002

Publication: Conference Proceedings, pp. 253-255; ISBN: 84-699-9417-4

Place: Sevilla (Spain)

Date: 25-27 September 2002

Authors (sorted by signature): A. Córdoba, J.E. Armendáriz, J.J. Astrain and J.Villadangos.

Title: **A CORBA Based Dynamic Replication Service for e-Commerce**

Sort of participation: Co-author

Conference: ZOCO: Métodos y herramientas para el comercio electrónico.

Publication: Conference Proceedings

Place: El Escorial (Madrid, Spain)

Date: 19 November 2002

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. Villadangos and J.R. González de Mendivil.

Title: **A Persistent Object Storage Service on Replicated Architectures**

Sort of participation: Co-author and attendee

Conference: IDEAS'03. 6º Workshop Iberoamericano de Ingeniería de Requisitos y Ambientes Software.

Publication: Conference Proceedings, pp. 133-144, ISBN: 84-96023-05-2

Place: Asunción (Paraguay)

Date: 30 April to 2 May 2003

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. Villadangos and J.R. González de Mendivil.

Title: **Design and Implementation of a Persistent Object Storage Service for Optimistic Replication Consistency Protocols**

Sort of participation: Co-author

Conference: XI Jornadas de Concurrencia.

Publication: Conference Proceedings, pp. 163-178, ISBN: 84-8021-434-1

Place: Benicàssim (Castellón, Spain)

Date: 11-13 June 2003

Authors (sorted by signature): A. Córdoba, J. E. Armendáriz, J. J. Astrain, M. Prieto.
Title: **An e-Commerce Dynamic Replication Service Based on CORBA**
Sort of participation: Co-author
Conference: XI Jornadas de Concurrencia.
Publication: Conference Proceedings, pp. 135-148, ISBN: 84-8021-434-1
Place: Benicàssim (Castellón, Spain) Date: 11-13 June 2003

Authors (sorted by signature): A. Córdoba, J. E. Armendáriz, J. J. Astrain, J. Villadangos.
Title: **A Dynamic Replication Service for XML-Documents to e-Commerce**
Sort of participation: Co-author
Conference: International Conference on Web Engineering 2003, ICWE'03.
Publication: Conference Proceedings, pp. 94-97, Lecture Notes in Computer Science 2722, ISBN: 3-540-40522-4
Place: Oviedo (Asturias, Spain) Date: 14-18 July 2003

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. Villadangos, J. R. González de Mendivil.
Title: **Implementation of an Object Oriented Query Language Compiler for Replicated Architectures**
Sort of participation: Co-author and attendee
Conference: VIII Jornadas de Ingeniería del Software y Bases de Datos.
Publication: Conference Proceedings, pp. 441-450, ISBN: 84-688-3836-5
Place: Alicante (Spain) Date: 12-14 November 2003

Authors (sorted by signature): J.E. Armendáriz, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **Working on GlobData: An Efficient Software Tool for Global Data Access**
Sort of participation: Co-author and attendee
Conference: REDISCOVER 2004 Workshop on Research and Education in Control and Signal Processing.
Publication: Conference Proceedings pp. 2-8—2-12, ISBN: 953-184-077-6
Place: Cavtat (Croatia) Date: 14-16 June 2004

Authors (sorted by signature): J.E. Armendáriz, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **Recovery Protocols for an O2PL Consistency Protocol**
Sort of participation: Co-author and attendee
Conference: International Conference on Dependable Systems and Networks, DSN'04.
Publication: Supplemental Volume of Proceedings pp. 38-39
Place: Firenze (Italy) Date: 28 June - 1 July 2004

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. Villadangos.
Title: **Design and Implementation of a Replicated Persistent Object State Storage.**
Sort of participation: Co-author and attendee
Conference: 8th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2004).
Publication: Conference Proceedings, vol. X pp. 196-201, ISBN: 980-6560-13-2
Place: Orlando (Florida, USA) Date: 18-21 July 2004

Authors (sorted by signature): J.E. Armendáriz, J.J. Astrain, A. Córdoba, J. Villadangos.
Title: **Implementación de ODL para proporcionar persistencia en SGBDRs a sistemas replicados orientados a objetos**
Sort of participation: Co-author and attendee
Conference: 3ª Conferencia Iberoamericana en Sistema, Cibernética e Informática (CISCI 2004).
Publication: Conference Proceedings, vol. II pp. 135-140, ISBN: 980-6560-15-9
Place: Orlando (Florida, USA) Date: 21-25 July 2004

Authors (sorted by signature): J.E. Armendáriz, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **A Lock Based Algorithm for Concurrency Control and Recovery in a Middleware Software Architecture**
Sort of participation: Co-author
Conference: 38th Annual Hawaii International Conference on System Sciences (HICSS'05).
Publication: Conference Proceedings pp. 291a, IEEE CS Press, ISBN: 0-7695-2268-8
Place: Big Island (Hawaii, USA) Date: 3-6 January 2005

Authors (sorted by signature): A. Córdoba, J. Villadangos, J.J. Astrain, J.E. Armendáriz.
Title: **A B2B Replication Service**
Sort of participation: Co-author
Conference: 13th Euromicro Conference on Parallel, Distributed and Network-Based Processing (Euro PDP2005).
Publication: Conference Proceedings pp. 1117-1121, IEEE CS Press, ISBN: 0-7695-2268-8
Place: Lugano (Switzerland) Date: 9-11 February 2005

Authors (sorted by signature): Hendrik Decker, Luis Irún-Briz, Rubén de Juan-Marín, J. E. Armendáriz, Francesc Muñoz-Escóí.
Title: **Wide-Area Replication Support for Global Data Repositories**
Sort of participation: Co-author
Conference: 1st International Workshop on Data Management in Global Data Repositories (in DEXA 2005).
Publication: Conference Proceedings pp. 1117-1121, IEEE CS Press, ISBN: 0-7695-2280-7
Place: Copenhagen (Denmark) Date: 22-26 August 2005

Authors (sorted by signature): L. Irún-Briz, J. E. Armendáriz, H. Decker, J. R. González de Mendivil, F. D. Muñoz-Escóí.
Title: **Replication Tools in the MADIS Middleware**
Sort of participation: Co-author and attendee
Conference: Workshop on Design, Implementation, and Deployment of Database Replication (in VLDB 2005).
Publication: Workshop Proceedings, pp. 25-32
Place: Trondheim (Norway) Date: 28 August 2005

Authors (sorted by signature): H. Decker, F. D. Muñoz-Escóí, L. Irún-Briz, R. de Juan-Marín, J. E. Armendáriz-Iñigo.
Title: **A Middleware Architecture for Supporting Adaptable Replication of Enterprise Application Data**
Sort of participation: Co-author and attendee
Conference: Trends in Enterprise Application Architecture VLDB Workshop TEAA 2005.
Publication: Workshop Proceedings, pp. 29-42, Lecture Notes in Computer Science 3888. Springer
Place: Trondheim (Norway) Date: 28 August 2005

Authors (sorted by signature): L. Irún-Briz, H. Decker, R. de Juan-Marín, F. Castro-Company, J. E. Armendáriz, F. D. Muñoz-Escóí.
Title: **MADIS: A Slim Middleware for Database Replication**
Sort of participation: Co-author
Conference: 11th International Euro-Par Conference.
Publication: Conference Proceedings, pp. 349-359, Lecture Notes in Computer Science 3648, ISBN: 3-540-28700-0
Place: Lisboa (Portugal) Date: 30 August - 2 September 2005

Authors (sorted by signature): Luis Irún, Hendrik Decker, Rubén De Juan Marín, Francisco Castro Company, José Enrique Armendáriz Iñigo, Francesc Daniel Muñoz i Escóí.
Title: **MADIS: A Slim Middleware for Database Replication**
Sort of participation: Co-author and attendee
Conference: XIII JORNADAS DE CONCURRENCIA Y SISTEMAS DISTRIBUIDOS (JCSD 2005).

Publication: Conference Proceedings, pp. 79-92, Thomson Editores, ISBN: 84-9372-432-3
Place: Granada (Spain) Date: 13-16 September 2005

Authors (sorted by signature): J.E. Armendáriz, J.R. Juárez, F.D. Muñoz-Escóí, J.R. Garitagoitia, I. Unzueta, L. Irún-Briz.
Title: **Implementing Replication Protocols in the MADIS Architecture**
Sort of participation: Co-author and attendee
Conference: XIII Jornadas de Concurrencia y Sistemas Distribuidos (JCSD 2005).
Publication: Conference Proceedings, pp. 93-100, Thomson Editores, ISBN: 84-9372-432-3
Place: Granada (Spain) Date: 13-16 September 2005

Authors (sorted by signature): J.E. Armendáriz, J.R. Juárez, J.R. Garitagoitia, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **Implementing Database Replication Protocols Based on O2PL in a Middleware Architecture**
Sort of participation: Co-author
Conference: The IASTED International Conference on Databases and Applications (DBA'06).
Publication: Conference Proceedings, pp 176-182, ACTA Press, ISBN: 0-88986-560-4.
Place: Innsbruck (Austria) Date: 14-16 February de 2006

Authors (sorted by signature): J.E. Armendáriz, J.R. Juárez, J.R. Garitagoitia, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **Evaluating database replication protocols in the MADIS Middleware Architecture**
Sort of participation: Co-author and presenter
Conference: Work in Progress Session of the EuroMicro PDP 2006 (PDP'06).
Publication: Work in Progress Session Proceedings, pp. 1-2, Univ. Linz SEA Press, ISBN: 3-902457-10-4.
Place: Montbéliard (France) Date: 15-17 February 2006

Authors (sorted by signature): J.R. Juárez, J.E. Armendáriz, J.R. Garitagoitia, J.R. González de Mendivil, F.D. Muñoz-Escóí.
Title: **Implementing O2PL Protocols in a Middleware Architecture for Database Replication**
Sort of participation: Co-author and presenter
Conference: Work in Progress Session of the EuroMicro PDP 2006 (PDP'06).
Publication: Work in Progress Session Proceedings, pp. 3-4, Univ. Linz SEA Press, ISBN: 3-902457-10-4.
Place: Montbéliard (France) Date: 15-17 February 2006

Authors (sorted by signature): J.E. Armendáriz, F.D. Muñoz-Escóí, J.R. Garitagoitia, J.R. González de Mendivil.
Title: **Design of a MidO2PL Database Replication Protocol in a Middleware Architecture**
Sort of participation: Co-author and presenter
Conference: AINA'06 Workshop on the 2006 International Symposium on Frontiers in Networking with Applications (FINA 2006).
Publication: Proc. of 20th International Conference on Advanced Information Networking and Applications - Volume 2 (AINA'06), pp. 861-865, IEEE-CS Press, ISBN: 0-7695-2466-4.
Place: Vienna (Austria) Date: 18-20 April 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí.
Title: **Boosting the Availability of Information Systems by Data Replication**
Sort of participation: Co-author and presenter
Conference: 18TH Conference on Advanced Information Systems Engineering (CAiSE'06) (Poster Forum on Trusted Information Systems).
Publication: Forum Proceedings, pp. 31-34, ISBN 2-87964-089-X
Place: Luxembourg, Grand-Duchy of Luxembourg Date: 5-9 June 2006

Authors (sorted by signature): F.D. Muñoz-Escóí, J. Pla-Civera, M.I. Ruiz-Fuertes, L. Irún-Briz, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **Dealing with Writese Conflict in Database Replication Middlewares**

Sort of participation: Co-author

Conference: XIV Jornadas de Concurrencia y Sistemas Distribuidos (JCSD'06).

Publication: Conference Proceedings, pp. 179-194.

Place: San Sebastián, Spain

Date: 14-16 June 2006

Authors (sorted by signature): J.R. Juárez, J.E. Armendáriz, J.R. González de Mendivil.

Title: **Design, Implementation and Evaluation of a Fast Reliable Multicast System.**

Sort of participation: Co-author

Conference: International Conference on Engineering and Mathematics (ENMA'06).

Publication: Proc. of the 2006 International Conference on Engineering and Mathematics (ENMA'06), pp. 11-18, Ed.

Publicaciones- E.T.S. Ingeniería, ISBN: 84-95809-26-5.

Place: Bilbao, Spain

Date: 10-12 July 2006

Authors (sorted by signature): M. Arce-Urriza, J.E. Armendáriz-Iñigo, M. Liroz-Gistau, J.R. Juárez-Rodríguez, J.R. González de Mendivil.

Title: **Performance Measurements and Human Behaviour in E-commerce Systems**

Sort of participation: Co-author

Conference: International Conference on Engineering and Mathematics (ENMA'06).

Publication: Proc. of the 2006 International Conference on Engineering and Mathematics (ENMA'06), pp. 3-10, Ed.

Publicaciones- E.T.S. Ingeniería, ISBN: 84-95809-26-5.

Place: Bilbao, Spain

Date: 10-12 July 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí.

Title: **Toward Reconciling Availability, Consistency and Integrity in Replicated Information Systems**

Sort of participation: Co-author

Conference: International Multiconference on Computing in the Global Information Technology (ICCGI'06).

Publication: Conference Proceedings (Only abstracts; full papers are included in a companion CD-ROM), pg. 38, IEEE-CS Press, ISBN 0-7695-2629-2.

Place: Bucharest, Romania

Date: 1-3 August 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, J.R. Juárez-Rodríguez, F.D. Muñoz-Escóí.

Title: **Trying to Cater for Replication Consistency and Integrity of Highly Available Data**

Sort of participation: Co-author

Conference: 2nd International Workshop on Logical Aspects and Application of Integrity Constraints (in IEEE DEXA'06).

Publication: Workshop Proceedings, pp. 553-557, IEEE-CS Press, ISSN 1529-4188, ISBN 0-7695-2641-1

Place: Krakow, Poland

Date: 4-8 September 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, J.R. González de Mendivil, F.D. Muñoz-Escóí.

Title: **Middleware-Based Data Replication: Some History and Future Trends**

Sort of participation: Co-author

Conference: 2nd International Workshop on High Availability of Distributed Systems (in IEEE DEXA'06).

Publication: Workshop Proceedings, pp. 390-394, IEEE-CS Press, ISSN 1529-4188, ISBN 0-7695-2641-1

Place: Krakow, Poland

Date: 4-8 September 2006

Authors (sorted by signature): F. D. Muñoz-Escóí, J. Pla-Civera, M. I. Ruiz-Fuertes, L. Irún-Briz, H. Decker, J. E. Armendáriz-Iñigo, J. R. González de Mendivil.

Title: **Managing Transaction Conflicts in Middleware-Based Database Replication Architectures**

Sort of participation: Co-author and presenter

Conference: 25th IEEE Symposium on Reliable Distributed Systems (SRDS'06).

Publication: Conference Proceedings, pp. 401-410, IEEE-CS Press, ISSN 1060-9857, ISBN 0-7695-2677-2

Place: Leeds, United Kingdom

Date: 2-4 October 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, H. Decker, J.R. Juárez, J.R. González de Mendivil.

Title: **A Protocol for Reconciling Recovery and High-Availability in Replicated Databases**

Sort of participation: Co-author

Conference: 21st International Symposium on Computer and Information Sciences (ISCIS'06).

Publication: Conference Proceedings, pp. 634-644, Lecture Notes in Computer Science 4263, Springer, ISSN 0302-9743, ISBN: 3-540-47242-8

Place: Istanbul, Turkey

Date: 1-3 November 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí, J.R. González de Mendivil.

Title: **A Closer Look at Database Replication Middleware Architectures for Enterprise Applications**

Sort of participation: Co-author and presenter

Conference: The 2nd International Conference on Trends in Enterprise Application Architecture (TEAA 2006).

Publication: Conference Proceedings, pp. 69-83, Lecture Notes in Computer Science 4473, Springer, ISSN 0302-9743

Place: Berlin, Germany

Date: 29 November - 1 December 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. Garitagoitia, J.R. Juárez-Rodríguez, J.R. González de Mendivil.

Title: **Proof and Evaluation of a 1CS Middleware Data Replication Protocol Based on O2PL**

Sort of participation: Co-author and presenter

Conference: The 2006 International Symposium on Parallel and Distributed Processing and Applications (ISPA 2006).

Publication: Conference Proceedings, pp. 524-537, Lecture Notes in Computer Science 4330, Springer, ISSN 0302-9743, ISBN: 3-540-47242-8

Place: Sorrento, Italy

Date: 4-6 December 2006

Authors (sorted by signature): J.E. Armendáriz-Iñigo, J.R. Juárez-Rodríguez, F.D. Muñoz-Escóí, J.R. González de Mendivil, J.R. Garitagoitia.

Title: **Developing Flexible Database Replication Protocols: How to Integrate SI Replicas with Several Data Consistency Levels?**

Sort of participation: Co-author and presenter

Conference: Third Biennial Conference on Innovative Data Systems Research (CIDR'07) - Gong Show Track.

Publication:

Place: Pacific Grove, CA, USA

Date: 7-10 January 2007

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.R. González de Mendivil, J.R. Garitagoitia, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.

Title: **A Middleware Database Replication Protocol Providing Different Isolation Levels**

Sort of participation: Co-author

Conference: 15th Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP'07) – Work in Progress Session.

Publication: Work in Progress Session Proceedings, pp. 7-8, SEA-Publications, ISBN 978-3-902457-12-7.

Place: Naples, Italy

Date: 7-9 February 2007

Authors (sorted by signature): L.H. García-Muñoz, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.

Title: **Associating Replication and Recovery Protocols for Replicated Databases**

Sort of participation: Co-author

Conference: The 15th Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP'07) – Work in Progress Session.

Publication: Work in Progress Session Proceedings, pp. 5-6, SEA-Publications, ISBN 978-3-902457-12-7.

Place: Naples, Italy

Date: 7-9 February 2007

Authors (sorted by signature): L.H. García-Muñoz, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí.

Title: **Recovery Protocols For Replicated Databases - A Minimal Survey**

Sort of participation: Co-author

Conference: The 15th Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP'07) – Work in Progress Session.

Publication: Work in Progress Session Proceedings, pp. 3-4, SEA-Publications, ISBN 978-3-902457-12-7.

Place: Naples, Italy

Date: 7-9 February 2007

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí.

Title: **Applying Generalized Snapshot Isolation to Mobile Databases**

Sort of participation: Co-author

Conference: The IADIS Applied Computing 2007 Conference (AC 2007).

Publication: Conference Proceedings, pgs. 238-244, IADIS Press, ISBN 978-972-8924-30-0.

Place: Salamanca, Spain

Date: 18-20 February 2007

Authors (sorted by signature): J.E. Armendáriz-Iñigo, J.R. Juárez-Rodríguez, J.R. González de Mendivil, H. Decker, F.D. Muñoz-Escóí.

Title: **k-Bound GSI: A Flexible Database Replication Protocol**

Sort of participation: Co-author and presenter

Conference: The 22nd ACM Annual Symposium on Applied Computing (SAC 2007) - Dependable and Adaptive Distributed Systems (DADS) Track.

Publication: Conference Proceedings, Vol. 1: pgs. 556-560, ACM Press, ISBN 1-59593-480-4.

Place: Seoul, South Korea

Date: 11-15 March 2007

Authors (sorted by signature): J.E. Armendáriz-Iñigo, F.D. Muñoz-Escóí, J.R. Juárez-Rodríguez, J.R. González de Mendivil, B. Kemme.

Title: **A Recovery Protocol for Middleware Replicated Databases Providing GSI**

Sort of participation: Co-author and presenter

Conference: The 2nd International Conference on Availability, Reliability and Security (ARES 2007).

Publication: Conference Proceedings, pgs. 85-92, IEEE-CS Press, ISBN 0-7695-2775-2.

Place: Vienna, Austria

Date: 10-13 April 2007

Authors (sorted by signature): J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí.

Title: **Managing Transactions on Replicated Content Going Mobile**

Sort of participation: Co-author

Conference: The 2nd Workshop on Tools and Applications for Mobile Contents, TAMC2007 (in the 8th International Conference on Mobile Data Management, MDM'2007).

Publication: Workshop Proceedings included in a CD-ROM, IEEE-CS Press, ISBN 1-4244-1241-2

Place: Mannheim, Germany

Date: 7-11 May 2007

Authors (sorted by signature): L.H. García-Muñoz, J.E. Armendáriz-Iñigo, H. Decker, F.D. Muñoz-Escóí.

Title: **Recovery Protocols for Replicated Databases - A Survey**

Sort of participation: Co-author

Conference: AINA'07 Workshop on the 2007 International Symposium on Frontiers in Networking with Applications (FINA 2007).

Publication: Conference Proceedings, Vol. 1, pgs. 220-227, IEEE-CS Press, ISBN 978-0-7695-2847-2.
Place: Niagara Falls, ON, Canada Date: 21-23 May 2007

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, J.R. González de Mendivil, F.D. Muñoz-Escoí, J.R. Garitagoitia.

Title: **A Weak Voting Database Replication Protocol Providing Different Isolation Levels**

Sort of participation: Co-author

Conference: The 7th International Conference on New Technologies of Distributed Systems (*7ème NOuvelles TEchnologies de la REpartition* - NOTERE'07).

Publication: Conference Proceedings, pgs. 159-171, ISBN 978-84-690-6109-1

Place: Marrakech, Morocco

Date: 4-8 June 2007

Authors (sorted by signature): R. Salinas-Monteagudo, J.M. Bernabé-Gisbert, F.D. Muñoz-Escoí, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **SIRC, a Multiple Isolation Level Protocol for Middleware-Based Data Replication**

Sort of participation: Co-author

Conference: The 22nd International Symposium on Computer and Information Sciences (ISCIS 2007).

Publication: Conference Proceedings. IEEE-CS Press. *Accepted for Publication*

Place: Ankara, Turkey

Date: 7-9 November 2007

Authors (sorted by signature): L.H. García-Muñoz, R. de Juan-Marín, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí.

Title: **Improving Recovery in Weak-Voting Data Replication**

Sort of participation: Co-author

Conference: The 7th Bi-Annual Conference on Parallel Processing Technologies (APPT 2007).

Publication: Conference Proceedings, pp. 131-140, Lecture Notes in Computer Science, Springer, ISSN: 0302-9743, ISBN: 978-3-540-76836-4.

Place: Guangzhou, China

Date: 22-23 November 2007

Authors (sorted by signature): R. de Juan-Marín, L.H. García-Muñoz, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí.

Title: **Reviewing Amnesia Support in Database Recovery Protocols**

Sort of participation: Co-author

Conference: The 9th International Symposium on Distributed Objects, Middleware, and Applications (DOA 2007).

Publication: Conference Proceedings, pp. 717-734, Lecture Notes in Computer Science 4803, Springer, ISSN 0302-9743, ISBN: 978-3-540-76846-3.

Place: Vilamoura, Portugal

Date: 26-28 November 2007

Authors (sorted by signature): M.I. Ruiz Fuertes, J. Pla-Civera, J.E. Armendáriz-Iñigo, J.R. González de Mendivil, F.D. Muñoz-Escoí.

Title: **Revisiting Certification-Based Replicated Database Recovery**

Sort of participation: Co-author

Conference: The 9th International Symposium on Distributed Objects, Middleware, and Applications (DOA 2007).

Publication: Conference Proceedings, pp. 489-504, Lecture Notes in Computer Science 4803, Springer, ISSN 0302-9743, ISBN: 978-3-540-76846-3.

Place: Vilamoura, Portugal

Date: 26-28 November 2007

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, F.D. Muñoz-Escoí, J.R. González de Mendivil, J.R. Garitagoitia.

Title: **A Deterministic Database Replication Protocol Where Multicast Writesets Never Get Aborted**

Sort of participation: Co-author and Poster Presenter

Conference: The 9th International Symposium on Distributed Objects, Middleware, and Applications (DOA 2007).

Publication: Conference Proceedings, pp. 1-2, Lecture Notes in Computer Science 4805, Springer, ISSN 0302-9743, ISBN: 978-3-540-76887-6.

Place: Vilamoura, Portugal

Date: 26-28 November 2007

Authors (sorted by signature): J.R. Juárez-Rodríguez, J.E. Armendáriz-Iñigo, J.R. González de Mendivil, F.D. Muñoz-Escóí.

Title: **A Database Replication Protocol Where Multicast Writesets Are Always Committed.**

Sort of participation: Co-author

Conference: The 3rd International Conference on Availability, Reliability and Security (ARES 2008).

Publication: Conference Proceedings, pgs. 120-127, IEEE-CS Press, ISBN 0-7695-3102-4.

Place: Barcelona, Spain

Date: 4-7 March 2008

Authors (sorted by signature): J.E. Armendáriz-Iñigo, A. Mauch-Goya, J.R. González de Mendivil, F.D. Muñoz-Escóí.

Title: **SIPRe: A Partial Database Replication Protocol with SI Replicas.**

Sort of participation: Co-author and presenter

Conference: The 23rd ACM Annual Symposium on Applied Computing (SAC 2008) - Dependable and Adaptive Distributed Systems (DADS) Track.

Publication: Conference Proceedings, Vol. 3: pgs. 2181-2185, ACM Press, ISBN 1-59593-753-7.

Place: Fortaleza, Brazil

Date: 16-20 March 2008

Authors (sorted by signature): J.E. Armendáriz-Iñigo, J.R. González de Mendivil, J.R. Garitagoitia, J.R. Juárez-Rodríguez, F.D. Muñoz-Escóí, L. Irún-Briz.

Title: **Relaxing Correctness Criteria in Database Replication with SI Replicas.**

Sort of participation: Co-author.

Conference: The 3rd International Conference on Software and Data Technologies (ICSOFT 2008).

Publication: Conference Proceedings, Vol. ISDM/ABF: pgs. 45-53, INSTICC Press, ISBN 978-989-8111-53-1

Place: Porto, Portugal

Date: 5-8 July 2008

Authors (sorted by signature): F.D. Muñoz-Escóí, R. de Juan-Marín, J. E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **Persistent Logical Synchrony.**

Sort of participation: Co-author.

Conference: The 7th IEEE International Symposium on Network Computing and Applications (IEEE NCA08).

Publication: Conference Proceedings, pgs. 253-258, IEEE-CS Press, ISBN 978-0-7695-3192-2.

Place: Cambridge, MA, USA

Date: 10-12 July 2008

Authors (sorted by signature): J. E. Armendáriz-Iñigo, J.R. Juárez-Rodríguez, J.R. González de Mendivil, F.D. Muñoz-Escóí.

Title: **Correctness Criteria for Replicated Database Systems with Snapshot Isolation Replicas.**

Sort of participation: Co-author.

Conference: Brief Announcement in the Twenty-Seventh Annual ACM SIGACT-SIGOPS Symposium on Principles of Distributed Computing (PODC 2008)

Publication: Conference Proceedings, pgs. 422, ACM Press, ISBN 978-1-59593-989-0.

Place: Toronto, ON, Canada

Date: 18-21 August 2008

Authors (sorted by signature): R. Salinas-Monteagudo, F.D. Muñoz-Escóí, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **A Performance Evaluation of g-Bound with a Consistency Protocol Supporting Multiple Isolation Levels.**

Sort of participation: Co-author.

Conference: The 3rd International Workshop on Reliability in Decentralized Distributed Systems in the context of OnTheMove (OTM) Federated Conferences and Workshops

Publication: Conference Proceedings pgs. 914-923, Lecture Notes in Computer Science 5333, Springer Berlin / Heidelberg, ISSN 0302-9743, ISBN: 978-3-540-88874-1.

Place: Monterrey, Mexico

Date: 9-14 November 2008

Authors (sorted by signature): F.D. Muñoz-Escóí, M.I. Ruiz-Fuertes, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **Integrity Dangers in Certification-Based Replication Protocols.**

Sort of participation: Co-author.

Conference: The 3rd International Workshop on Reliability in Decentralized Distributed Systems in the context of OnTheMove (OTM) Federated Conferences and Workshops

Publication: Conference Proceedings pgs. 924-933, Lecture Notes in Computer Science 5333, Springer Berlin / Heidelberg, ISSN 0302-9743, ISBN: 978-3-540-88874-1.

Place: Monterrey, Mexico

Date: 9-14 November 2008

Authors (sorted by signature): F.D. Muñoz-Escóí, M.I. Ruiz-Fuertes, H. Decker, J.E. Armendáriz-Iñigo, J.R. González de Mendivil.

Title: **Extending Middleware Protocols for Database Replication with Integrity Support.**

Sort of participation: Co-author.

Conference: The 10th International Symposium on Distributed Objects, Middleware, and Applications (DOA 2008) in the context of OnTheMove (OTM) Federated Conferences and Workshops.

Publication: Conference Proceedings pgs. 607-624, Lecture Notes in Computer Science 5331, Springer Berlin / Heidelberg, ISSN 0302-9743, ISBN: 978-3-540-88870-3.

Place: Monterrey, Mexico

Date: 9-14 November 2008

Authors (sorted by signature): M. Ameling, B. Wolf, J.E. Armendáriz-Iñigo, A. Schill.

Title: **A Cost Model for Efficient Business Object Replication.**

Sort of participation: Co-author.

Conference: The 5th International Symposium on Web and Mobile Information Services, WAMIS-09 (in the IEEE 23rd International Conference on Advanced Information Networking and Applications, AINA-09).

Publication: Conference Proceedings, IEEE-CS Press (*Accepted for publication*).

Place: Bradford, UK

Date: 26-29 May 2008

Community Activities

Teaching Accreditation:

- "Profesor Colaborador". National Accreditation by the Spanish Government. Year: 2006
- "Profesor Ayudante Doctor". Regional Accreditation by the Government of Valencia. Year: 2006
- "Profesor Colaborador". Regional Accreditation by the Government of Valencia. Year: 2006

Conference Reviewer:

- The 12TH Euromicro Conference on Parallel, Distributed and Network-Based Processing (PDP'04)
- 4^a Conferencia Iberoamericana en Sistemas, Cibernética e Informática (CISCI 2005)
- The 9TH World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2005)
- 5^a Conferencia Iberoamericana en Sistemas, Cibernética e Informática (CISCI 2006)
- The 10TH World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2006)
- International Symposium on Knowledge Communication and Conferences (KCC 2006)
- The 2ND International Conference on Trends in Enterprise Application Architecture (TEAA 2006)
- The 7TH International Conference on New Technologies of Distributed Systems / 7^{ème} Conférence Internationale sur les NOuvelles TEchnologies de la REpartition (NOTERE 2007)
- The 2ND International Symposium on Knowledge Communication and Conferences (KCC 2007)
- The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'07)
- 6^a Conferencia Iberoamericana en Sistemas, Cibernética e Informática (CISCI 2007)
- The 9TH IBIMA Conference on Information Management in Modern Organizations (IBIMA 2008)
- 7^a Conferencia Iberoamericana en Sistemas, Cibernética e Informática (CISCI 2008)
- The 12th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2008)
- 8^a Conferencia Iberoamericana en Sistemas, Cibernética e Informática (CISCI 2009)
- The 2nd International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2009)
- The 3rd International Conference on Knowledge Generation, Communication and Management (KGCM 2009)

Program Committee Member

- The 2ND International Conference on Trends in Enterprise Application Architecture (TEAA 2006)
- The 2007 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'07)
- The 2ND International Symposium on Knowledge Communication and Conferences (KCC 2007)
- The 3RD Dependable and Adaptive Distributed Systems (DADS) Special Track at the 23RD ACM Symposium on Applied Computing (SAC 2008)
- The Second Workshop on Dependable Distributed Data Management (WDDDM'2008) co-located with the EuroSys 2008 Conference.
- The 2008 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'08) at the 2008 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'08). Las Vegas, Nevada, USA, 14 - 17 July, 2008
- The 2008 International Conference on Grid Computing and Applications (GCA'08) at the 2008 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'08). Las Vegas, Nevada, USA, 14 - 17 July, 2008
- The 12th IEEE International EDOC Conference (EDOC 2008). . München, Germany, 15 - 19 September, 2008.
- The Mini-Conference Semantic Web and Web 2.0 Technologies for the Knowledge Society (MiniConfSW) at the First World Summit on The Knowledge Society (KNOWLEDGE-SOCIETY). Athens, Greece, 24 - 28 September, 2008
- The First International Workshop on Network Security & Applications (WNSA-2008) co-located with the 2008 International Conference on Convergence and hybrid Information Technology (ICCIT08). Busan, South Korea, 11 - 13 November, 2008
- The Fourth Dependable and Adaptive Distributed Systems (DADS) Special Track at the 24th ACM Symposium on Applied Computing (SAC 2009). Waikiki Beach, Honolulu, Hawaii, USA, 8 - 12 March, 2009
- The First International Workshop on Wireless & Mobile Networks (WiMoN-2009) co-located with the 9th International Symposium on Autonomous Decentralized Systems (ISADS 2009). Athens, Greece, 23 - 25 March, 2009

- The First International Workshop on Computer Networks & Communications (CoNeCo). Dong Hoi City, Vietnam, 1 - 3 April, 2009
- The 9th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS 2009) included in the 4th International Federated Conference on Distributed Computing Techniques (DisCoTec'09). Lisbon, Portugal, 9 - 11 June, 2009
- The Second International Conference on Dependability (DEPEND 2009). Athens, Greece, 14 - 19 June, 2009
- La Cuarta Conferencia Ibérica de Sistemas y Tecnologías de la Información (CISTI 2009). Póvoa de Varzim, Portugal, 17 - 20 June, 2009
- The 2009 International Conference on Enterprise Information Systems and Web Technologies (EISWT 2009). Orlando, FL, USA, 13 - 16 July, 2009
- The 2009 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'09) at the 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'09). Las Vegas, Nevada, USA, 13 - 16 July, 2009
- The 2009 International Conference on Grid Computing and Applications (GCA'09) at the 2009 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'09). Las Vegas, Nevada, USA, 13 - 16 July, 2009
- The IEEE International Database Expert and Applications Conference. (DEXA 2009) Linz, Austria, 31 August - 4 September 2009.
- The 13th IEEE International EDOC Enterprise Computing Conference (EDOC 2009). Auckland, New Zealand, 31 August - 4 September 2009.

Journal Associated Editor:

- The International Journal of Network Security & Its Applications (IJNSA).

Journal Reviewer

- Information Systems. Elsevier.
- Journal of Supercomputing. Springer.

Conference Session Chair

- The Second International Conference on Availability, Reliability and Security (AReS 2007). Session C5: Fault-Tolerant & Availability (FARES)

Co-supervised the following final projects:

- *Ingeniería de Telecomunicación*. Student: Ana Belén Mindeguía Guruceaga. Advisors: J.R. González de Mendivil and J.E. Armendáriz. Title: "Evolution of Schemes for Object Definition Languages – *Evolución de esquemas en lenguajes de definición de datos orientados a objeto*". Year: 2003.
- *Ingeniería Técnica en Informática de Gestión*. Student: David Pro Urdaniz. Advisors: J.R. González de Mendivil and J.E. Armendáriz. Title: "Diseño e implantación de un algoritmo distribuido de replicación de objetos tolerante a fallos". Year: 2005.
- *Ingeniería Técnica en Informática de Gestión*. Student: Miguel Liroz Gistau. Advisors: J.R. González de Mendivil and J.E. Armendáriz. Title: "*Implementación de TPC-W para evaluar el rendimiento de protocolos de replicación en una arquitectura middleware*". Year: 2006.
- *Ingeniería Informática*. Student: Augusto Mauch-Goya. Advisors: J.R. González de Mendivil and J.E. Armendáriz. Title: "*Diseño e implementación de un servicio de replicación de objetos distribuidos*". Year: 2008.