Curriculum Vitae

Natalia Juristo

Date of Printing: February 21, 2022

Personal Information

Surname: Juristo
Name: Natalia

Gender: Female

Professional Situation

Organization: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Department, Section or Unit: Software Engineering
Address: Campus de Montegancedo s/n
Postal Code: 28660
City: Boadilla del Monte

E-Mail: natalia@fi.upm.es
Specialization (UNESO Codes): 1203
Professional Category: Tenured Full University Professor **since:** November 24, 1997
Administrative Situation: Staff
Dedication: Full time

Research Branches and Teaching Branches

1. Five externally assessed (six-year) periods of research (*1) for 2015-2020, 2009-2014, 2002-2008, 1996-2002, 1990-1996.

(*1) Spanish national research quality measures. Every six years researchers submit a report on the research they have done over the six-year period, including publications, conferences, projects etc. The report is assessed by the Spanish National Research Activity Assessment Committee (CNEAI). If the amount and quality of activity is regarded as sufficient, the application is approved or recognized.

2. Six externally assessed (five-year) periods of teaching (*2) for 2016-2020, 2011-2015, 2005-2010, 2000-2005, 1995-2000, 1990-1995.

(*2) Spanish national teaching quality measures. Every five years lecturers submit a report on their teaching activity over the five-year period. The report is assessed by a University Assessment Committee. If the amount and quality of activity is regarded as sufficient, the application is approved or recognized.

Education

1. Titulation: PhD in Computer Science
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: January 29, 1991

2. Titulation: Bachelor's Degree in Computer Science
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: October 30, 1987

Posts

1. Position: Young Graduate (Staff)
Center: European Space Agency (ESA), Rome, Italy
Date: from November 1998 to November 1999

2. Position: Tenured Associate University Professor
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: from June 1993 to November 1997

3. Position: Assistant University Professor
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: from July 1991 to June 1993

4. Position: Resident Affiliate
Center: Software Engineering Institute, Carnegie Mellon University, Pittsburgh, U.S.A.
Date: from January 1992 to December 1992

5. Position: Associate University Professor
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: from April 1990 to June 1991

6. Position: Fellow
Center: European Organization for Nuclear Research (CERN), Geneva, Switzerland
Date: from February 1988 to October 1988

7. Position: Tenured Full University Professor
Center: School of Computer Science, Universidad Politécnica de Madrid
Date: from November 1997 to now

Languages

1. Language: English
Speaking: Correct
Reading: Correct
Writting: Correct

2. Language: French
Speaking: Regular
Reading: Good
Writting: Regular

3. Language: Italian
Speaking: Correct
Reading: Correct
Writting: Correct

R&D Projects

Participation in the Role of Project Leader

Number of entries: 17

1. Title: Running Experiments in the Software Industry: Understanding the Laboratory Step to Reality
Funding Entity: Ministry of Economy and Competitiveness
From: January of 2015 **to:** January of 2018
Funding: 62.073 EUR
Project Leader: Natalia Juristo
Code: TIN2014-60490-P

2. Title: Technologies for the Replication and Synthesis of Experiments in SE
Funding Entity: Ministry of Science and Innovation
From: January of 2012 **to:** November of 2015
Funding: 134.068 EUR
Project Leader: Natalia Juristo
Code: TIN2011-23216

3. Title: MuIn Network (Women in Computer Science)
Funding Entity: Ministry of Education and Science
From: April of 2009 **to:** January of 2013
Funding: 40.000 EUR
Project Leader: Natalia Juristo
Code: CSO2008-05097-E

4. Title: Generating Evidences Through Combination of Experimental Data
Funding Entity: Ministry of Science and Innovation
From: January of 2009 **to:** July of 2012
Funding: 105.270 EUR
Project Leader: Natalia Juristo
Code: TIN2008-00555

5. Title: Regional Funding for high-quality R&D Groups - 2011
Funding Entity: Technical University of Madrid
From: January of 2011 **to:** December of 2011
Funding: 6.400 EUR
Project Leader: Natalia Juristo
Code: --

6. Title: Regional Funding for high-quality R&D Groups - 2010
Funding Entity: Technical University of Madrid
From: January of 2010 **to:** December of 2010
Funding: 5.525 EUR
Project Leader: Natalia Juristo
Code: --

7. Title: A Framework for Improving Technology Adoption Decision Making
Funding Entity: Ministry of Science and Innovation
From: January of 2009 **to:** April of 2011
Funding: 11.720 EUR
Project Leader: Natalia Juristo
Code: HD2008-0048

8. Title: Regional Funding for high-quality R&D Groups - 2009
Funding Entity: Technical University of Madrid
From: January of 2009 **to:** December of 2009
Funding: 7.300 EUR
Project Leader: Natalia Juristo
Code: --

9. Title: Regional Funding for high-quality R&D Groups - 2008
Funding Entity: Madrid State Government
From: January of 2008 **to:** December of 2008
Funding: 2.030 EUR
Project Leader: Natalia Juristo
Code: --

10. Title: Research Thematic Network in Empirical Software Engineering Area
Funding Entity: Ministry of Science and Technology
From: June of 2004 **to:** June of 2005
Funding: 9.000 EUR
Project Leader: Natalia Juristo
Code: TIC2002-11494-E

11. Title: Software Architecture for Usability (STATUS)
Funding Entity: European Union
From: December of 2001 **to:** December of 2004
Funding: 203.052 EUR
Project Leader: Natalia Juristo
Code: IST-2001-32298

12. Title: Special Action VII Conference on Software Engineering and Databases
Funding Entity: Ministry of Science and Technology
From: January of 2007 **to:** January of 2008
Funding: 10.000 EUR
Project Leader: Natalia Juristo
Code: TIC2001-5339-E

13. Title: Definition of a Multipurpose Conceptual Model Suitable for Software Engineering and Knowledge Engineering
Funding Entity: Ministry of Education and Science
From: November of 1999 **to:** November of 2002
Funding: 27.646,56 EUR
Project Leader: Natalia Juristo
Code: PB98-0721

14. Title: Model for the Integration of Diverse Issues in Classic & Knowledge-Based Software Construction
Funding Entity: Ministry of Education and Science
From: August of 1995 **to:** July of 1998
Funding: 21.636,44 EUR
Project Leader: Natalia Juristo
Code: PB94-0414

15. Title: Tool for Streamlining & Improving Software Process Assessment
Funding Entity: Ministry of Industry and Energy
From: March of 1995 **to:** December of 1996
Funding: 42.070 EUR
Project Leader: Natalia Juristo
Code: PEIN 863/95

16. Title: Software Technology Transition
Funding Entity: Software Engineering Institute (Carnegie Mellon University)
From: October of 1992 **to:** December of 1995
Funding: --
Project Leader: Natalia Juristo
Number Researchers: March
Code: --

17. Title: System for Automatic Knowledge Acquisition from Texts
Funding Entity: Technical University of Madrid
From: March of 1992 **to:** March of 1993
Funding: 4.808 EUR
Project Leader: Natalia Juristo
Code: --

Participation in the Role of Researcher

Number of entries: 14

1. Title: Operational Excellence in Industrial Software and Application Development with Empirical Software Engineering (ESEIL)
Funding Entity: Tekes (Finnish Funding Agency for Innovation)
From: January of 2013 **to:** July of 2018
Funding: 1.862.816 EUR
Project Leader: Markku Oivo
Code: --

2. Title: Aggregation of Experiments Using Meta-Analysis
Funding Entity: Madrid State Government
From: January of 2011 **to:** January of 2012
Funding: 13.604,26 EUR
Project Leader: Oscar Dieste
Code: CCG10-UPM/TIC-5694

3. Title: Complementary Action 1st IEEE/ACM International Simposium on Empirical Software Engineering and Measurement (ESEM'07)
Funding Entity: Ministry of Education and Science
From: January of 2007 **to:** January of 2008
Funding: 10.000 EUR
Project Leader: Sira Vegas Hernández
Code: TIN2006-28234-E

4. Title: Experimental Software Engineering International Week (ESEIW'07)
Funding Entity: Universidad Politécnica de Madrid
From: January of 2007 **to:** January of 2008
Funding: 4.000 EUR
Project Leader: Sira Vegas Hernández
Code: CUPM-CM 02/07

5. Title: Dealing with Usability Mechanisms in Requirements and Software Design Stages
Funding Entity: Ministry of Education and Science
From: November of 2005 **to:** November of 2009
Funding: 35.000 EUR
Project Leader: Ana M. Moreno
Code: TIN2005-00176

6. Title: Network for the Promotion and Improvement of Software Engineering Testing
Funding Entity: Ministry of Education and Science
From: July of 2006 **to:** July of 2007
Funding: --
Project Leader: Javier Tuya (Universidad de Oviedo)
Code: TIN2005-24792-E

7. Title: Tool for Systematic and Formalized Selection of Testing Techniques
Funding Entity: Universidad Politécnica de Madrid
From: June of 2003 to: December of 2004
Funding: 5.500 EUR
Project Leader: Sira Vega Hernández
Code: 14313

8. Title: Definition of a Software Process Integrated with Usability Techniques
Funding Entity: Ministry of Science and Technology

From: December of 2001 **to:** December of 2004
Funding: 29.600 EUR
Project Leader: Ana M. Moreno
Code: TIC-2002-00320

9. Title: Canada/Spain/Italy Students interchange Network (SOFTWORLD)
Funding Entity: European Union
From: December of 2002 **to:** June of 2004
Funding: 39.626 EUR
Project Leader: Petr Musilek (University of Alberta)
Code: 2000-0718/001-001bCPT-CPTCAN

10. Title: Experimental Software Engineering Research Network (ESERNET)
Funding Entity: European Union
From: October of 2001 **to:** January of 2004
Funding: 2.017.372 EUR
Project Leader: Dieter Rombach (Fraunhofer Institute for Experimental Software Engineering)
Code: IST-2000-28754

11. Title: VISEK (Virtuelles Software Engineering Kompetenzzentrum)
Funding Entity: German Federal Ministry of Education and Research
From: January of 2001 **to:** January of 2004
Funding: 7.180 EUR
Project Leader: Dieter Rombach (Fraunhofer Institute for Experimental Software Engineering)
Code: --

12. Title: System for Knowledge Acquisition
Funding Entity: Spanish Council for Research and Technology
From: January of 1991 **to:** December of 1992
Funding: 30.050 EUR
Project Leader: Juan Pazos
Code: --

13. Title: Validation Methods and Tools for Knowledge-Based Systems (VALID)
Funding Entity: European Union
From: January of 1989 **to:** December of 1991
Funding: 102.172 EUR
Project Leader: Jesús Cardeñosa
Code: --

14. Title: ACKnowledge: Environment for Knowledge Engineering
Funding Entity: European Union
From: January of 1989 **to:** December of 1991
Funding: 12.500.000 Ptas.
Project Leader: Jesús Cardeñosa
Code: --

Supervision of PhD Dissertations

Number of entries: 27

1. Thesis: Proceso para la Agregación de Familias de Experimentos en Ingeniería del Software
PhD Candidate: Patricia Riofrío
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Sep 2020

2. Thesis: Analyzing Families of Experiments in Software Engineering
PhD Candidate: Adrián Santos
University: University of Oulu
School, College or Institute: Research Group M3S-ITEE
Defense date: Apr 2020

3. Thesis: Evidence of the Existence of Statistical Errors in Software Engineering Experiments: Four Empirical Studies
PhD Candidate: Rolando Patricio Reyes Chicango
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Mar 2018

4. Thesis: Process for Systematic Review of Experiments in Software Engineering
PhD Candidate: Anna Grimán
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Sep 2017

5. Thesis: Influence of the Analysts' Personal Characteristics on the Outcome of the Elicitation Process
PhD Candidate: Alejandrina María Aranda López King
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: March 2016

6. Thesis: Discovery and Use of Patterns for Implementing Usability Functionalities in Web Applications
PhD Candidate: Francy Rodriguez
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Dec 2014

7. Thesis: Adopting Usability in the Open Source Software Development Process
PhD Candidate: John W. Castro
University: Universidad Autónoma de Madrid
School, College or Institute: Escuela Politécnica Superior
Defense date: Dec 2014

8. Thesis: Definition of a Support Infrastructure for Replicating and Aggregating Families of Software Engineering Experiments
PhD Candidate: Efraín Rodrigo Fonseca Carrera
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Jul 2014

9. Thesis: Configuration Management and Product Lines to Enhance the Replication Process in Software Engineering
PhD Candidate: Edison Espinosa
University: Universidad Politécnica de Madrid
School, College or Institute: Escuela Técnica Superior de Ingenieros Informáticos
Defense date: Jul 2014

10. Thesis: A Classification of Replications for Synthesizing Experiments in Software Engineering
PhD Candidate: Omar S. Gómez Gómez
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: May 2012

11. Thesis: Definition of a Laboratory Package for Software Engineering Replications
PhD Candidate: Martín Solari
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: March 2012

12. Thesis: Guidelines for Managing Software Development Teams: Experimental Studies on the Impact of Personality and Team Climate on Quality and Job Satisfaction
PhD Candidate: Marta Gómez Pérez
University: Universidad Autónoma de Madrid
School, College or Institute: Facultad de Informática
Defense date: July 2010

13. Thesis: Introducing Usability Mechanisms in Model Driven Development
PhD Candidate: Ignacio Panach Navarrete
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: May 2010

14. Thesis: Proposal for Combining Quantitative and Qualitative Techniques in SE Experimentation. Application to Interpreting Quantitative Results
PhD Candidate: María Lázaro
University: Universidad Rey Juan Carlos
School, College or Institute: Escuela Técnica Superior de Ingeniería Informática
Defense date: June 2009

15. Thesis: Framework for Selecting Requirements Elicitation Techniques
PhD Candidate: Dante Carrizo
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: June 2009

16. Thesis: An Empirical Model of Software Managers' Information Needs for Software Engineering Technology Selection
PhD Candidate: Andreas Jeditschka
University: Technische Universität Kaiserslautern (Germany)
School, College or Institute: Fachbereich Informatik
Defense date: April 2009

17. Thesis: Framework for Integrating Usability into the Software Development Process
PhD Candidate: Xavier Ferré
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática

Defense date: June 2005

18. Thesis: Integral Capabilities-Driven Software Process Model
PhD Candidate: Silvia T. Acuña
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: July 2002

19. Thesis: Characterization Scheme for Selecting Software Testing Techniques
PhD Candidate: Sira Vegas Hernández
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: February 2002

20. Thesis: Expert Knowledge Modelling Method
PhD Candidate: Almudena Sierra Alonso
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: July 2000

21. Thesis: Integral Software Process Evaluation Method
PhD Candidate: Marta López Fernández
University: Universidade da Coruña
School, College or Institute: Facultad de Informática
Defense date: November 1997

22. Thesis: Conceptual Modelling Method for Software Systems
PhD Candidate: Ana M. Moreno
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: October 1997

23. Thesis: Structure for Introducing Expert Systems into the Organization
PhD Candidate: Rafael García Vázquez
University: Universidade da Coruña
School, College or Institute: Facultad de Informática
Defense date: October 1994

24. Thesis: Method for Conceptualizing Knowledge-Based Systems
PhD Candidate: Juan Ares Casal
University: Universidade da Coruña
School, College or Institute: Facultad de Informática
Defense date: July 1994

25. Thesis: Study of the Applicability of Software Metrics to Knowledge-Based Systems Construction
PhD Candidate: Edmundo Tovar
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: May 1994

26. Thesis: Frame-Oriented Design Model
PhD Candidate: Asunción Gómez
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: December 1993

27. Thesis: Linear Field Memory in Computer Evolution
PhD Candidate: Ruby C. Morales
University: Universidad Politécnica de Madrid
School, College or Institute: Facultad de Informática
Defense date: July 1993

Books and Chapters

Complete Books

Number of entries: 4

1. Authors: Silvia T. Acuña, Natalia Juristo, Ana M. Moreno, Alicia Mon
Title: A Software Process Model Handbook for Incorporating People's Capabilities
ISBN: 0-387-24432-8
Publisher: Birkhäuser Springer
Date: 2005

2. Authors: Sira Vegas, Natalia Juristo, Victor R. Basili
Title: Identifying Relevant Information for Testing Technique Selection. An Instantiated Characterization Schema
Series: The Kluwer International Series in Software Engineering
ISBN: 1-4020-7435-2
Publisher: Kluwer Academia Publishers
Date: 2003

3. Authors: Natalia Juristo, Ana M. Moreno
Title: Basics of Software Engineering Experimentation
ISBN: 0-7923-7990-X
Publisher: Kluwer
Date: 2001

4. Authors: Asunción Gómez, Natalia Juristo, César Montes, Juan Pazos
Title: Ingeniería del Conocimiento: Construcción de Sistemas Expertos
ISBN: 84-8004-269-9
Publisher: CEURA
Date: 1997

Edited Books

Number of entries: 3

1. Authors: Oscar Dieste, Andreas Jedlitschka, Natalia Juristo
Title: Proceedings of the 13th International Conference on Product Focused Software Process Improvement
Series: Lecture Notes in Computer Science (Vol. 7343)
ISBN: 978-3-642-31062-1
Publisher: Springer-Verlag
Date: 2012

2. Authors: Silvia Abrahao, Effie Law, Jan Stage, Kasper Hornbæk, Natalia Juristo
Title: Proceedings of the First Workshop on the Interplay between Usability Evaluation and Software Development
Series: CEUR Workshop Proceedings (Vol. 407)
Publisher: CEUR-WS.org
Date: 2008

3. Authors: Natalia Juristo, Ana M. Moreno
Title: Lecture Notes on Empirical Software Engineering
Series: Series on Software Engineering and Knowledge Engineering (vol. 12)
ISBN: 981-02-4914-4
Publisher: World Scientific

Book Chapters

Number of entries: 16

1. Authors: Oscar Dieste, Natalia Juristo
Chapter: Challenges of Evaluating the Quality of Software Engineering Experiments
Book Title: Perspectives on the Future of Software Engineering
ISBN: 978-3-642-37395-4
Publisher: Springer
Date: 2013

2. Authors: Natalia Juristo, Omar Gómez
Chapter: Replication of Software Engineering Experiments
Book Title: Empirical Software Engineering and Verification
ISBN: 978-3-642-25230-3
Publisher: Springer-Verlag
Date: 2012

3. Authors: Natalia Juristo
Chapter: Impact of Usability on Software Requirements and Design
Book Title: Software Engineering: International Summer Schools, ISSSE 2006-2008
Series: Lecture Notes in Computer Science (vol. 5413)
ISBN: 978-3-540-95887-1
Publisher: Springer-Verlag
Date: 2009

4. Authors: Natalia Juristo
Chapter: Educational Objectives for Empirical Methods
Book Title: Empirical Software Engineering Issues. Critical Assessment and Future Directions
Series: Lecture Notes in Computer Science (vol. 4336)
ISBN: 3-540-71300-X
Publisher: Springer
Date: 2007

5. Authors: Xavier Ferré, Natalia Juristo, Ana M. Moreno
Chapter: Which, When and How Usability Techniques and Activities Should Be Integrated
Book Title: Human-Centered Software Engineering - Integrating Usability in the Software Development Lifecycle
ISBN: 140204027X
Publisher: Kluwer
Date: 2005

6. Authors: Xavier Ferré, Natalia Juristo, Ana M. Moreno
Chapter: Obstacles for the Integration of HCI Practices into SE Development Process
Book Title: Enciclopedia of Human Computer Interaction
ISBN: 1591405629
Publisher: Idea Group Publishing
Date: 2005

7. Authors: Oscar Dieste, Marcela Genero, Natalia Juristo, Ana M. Moreno
Chapter: An Attempt to Establish a Correspondence between Development Methods and Problem Domains
Book Title: Advanced Topics in Database Research
ISBN: 1-59140-255-7

Publisher: Idea Group Publishing
Date: 2004

8. **Authors:** Oscar Dieste, Marcela Genero, Natalia Juristo, Ana M. Moreno
Chapter: A Proposal of a Measure of Completeness for Conceptual Models
Book Title: Metrics for Software Conceptual Models
ISBN: 1-86094-497-3
Publisher: IC Press
Date: 2004

9. **Authors:** Xavier Ferré, Natalia Juristo, Ana M. Moreno
Chapter: Improving Software Engineering Practice with HCI Aspects
Book Title: Software Engineering Research and Applications
Series: Lecture Notes on Computer Science (vol. 3026)
ISBN: 978-3-540-21975-0
Publisher: Springer-Verlag
Date: 2004

10. **Authors:** Natalia Juristo, Sira Vegas
Chapter: Functional Testing, Structural Testing and Code Reading: What Fault Type Do They Each Detect?
Book Title: Empirical Methods and Studies in Software Engineering: Experiences from ESERNET
ISBN: 3540406727
Publisher: Springer
Date: 2003

11. **Authors:** Natalia Juristo, Sira Vegas, Victor R. Basili
Chapter: A Process for Identifying Relevant Information for a Repository: A Case Study for Testing Techniques
Book Title: Managing Software Engineering Knowledge
ISBN: 3540003703
Publisher: Springer
Date: 2003

12. **Authors:** Natalia Juristo, Ana M. Moreno, Sira Vegas
Chapter: Limitations of Empirical Testing Technique Knowledge
Book Title: Lecture Notes on Empirical Software Engineering
Series: Series on Software Engineering and Knowledge Engineering (vol. 12)
ISBN: 981-02-4914-4
Publisher: World Scientific
Date: 2003

13. **Authors:** Oscar Dieste, Natalia Juristo, Ana M. Moreno, Juan Pazos, Almudena Sierra
Chapter: Conceptual Modeling in Software Eng. and Knowledge Eng.: Concepts, Techniques and Trends
Book Title: Handbook of Software Engineering and Knowledge Engineering
ISBN: 981-02-4973-X
Publisher: World Scientific
Date: 2002

14. **Authors:** Priscilla Fowler, Isabel García, Natalia Juristo, Linda Levine
Chapter: A Prototype Knowledge-based Tool for Software Engineering Adoption and Implementation
Book Title: Diffusion and Adoption of Information Technology
ISBN: 0-412-75600-5
Publisher: Chapman & Hall

Date: 1996

15. Authors: Juan P. Caraça, Natalia Juristo, Juan Pazos
Chapter: The Penultimate Obstacle to AI: The Fulguratio
Book Title: Brain Processes, Theories and Models
ISBN: 0-262-63170-9
Publisher: MIT Press
Date: 1996

16. Authors: Natalia Juristo, Juan Pazos
Chapter: Towards a Joint Life Cycle for Knowledge and Software Engineering
Book Title: Knowledge Oriented Software Design
ISBN: 0-444-81541-4
Publisher: Elsevier
Date: 1993

Articles in Journals

JCR Journals Papers

Number of entries: 80

1. Authors: Juan M. Ferreira, Francy Rodríguez, Adrián Santos, Oscar Dieste, Silvia T. Acuña, Natalia Juristo
Title: Impact of Usability Mechanisms: A Family of Experiments on Efficiency, Effectiveness and User Satisfaction
Journal: IEEE Transactions on Software Engineering
Year: 2022
JCR position: Not available

2. Authors: Jose Ignacio Panach, Oscar Pastor, Natalia Juristo
Title: A Family of Experiments to Compare Two Model-Driven Development Tools vs a Traditional Development Method
Journal: IEEE Transactions on Software Engineering
Year: 2021
JCR position: Not available

3. Authors: Adrian Santos, Sira Vegas, Markku Oivo, Natalia Juristo
Title: A Procedure and Guidelines for Analyzing Groups of Software Engineering Replications
Journal: IEEE Transactions on Software Engineering, Vol. 47, Num. 9, pp:1742-1763
Year: 2021
JCR position: Not available

4. Authors: Claudia Ayala, Burak Turhan, Xavier Franch, Natalia Juristo
Title: Use and Misuse of the Term Experiment in Mining Software Repositories Research
Journal: IEEE Transactions on Software Engineering
Year: 2021
JCR position: Not available

5. Authors: Simone Romano, Davide Fucci, Giuseppe Scaniello, Maria Teresa Baldassarre, Burak Turhan, Natalia Juristo
Title: On Researcher Bias in Software Engineering Experiments
Journal: Journal of Systems and Software, Vol. 182, pp: 1-18
Year: 2021
JCR position: Not available

6. Authors: Maria Teresa Baldassarre, Danilo Caivano, Davide Fucci, Natalia Juristo, Simone Romano, Giuseppe Scanniello, Burak Turhan
Title: Studying Test-Driven Development and its Retainment over a Six-Month Time Span
Journal: Journal of Systems and Software, Vol. 176, pp: 1-17
Year: 2021
JCR position: Not available

7. Authors: Adrian Santos, Sira Vegas, Oscar Dieste, Fernando Uyaguari, Aysee Tosun, Davide Fucci, Burak Turhan, Giuseppe Scanniello, Simone Romano, Itir Karac, Marco Kuhrmann, Vladimir Mandic, Robert Ramac, Dietmar Pfahl, Christian Engblom, Jarno Kyykka, Kerli Rungi, Carolina Palomeque, Jaroslav Spisak, Markku Oivo, Natalia Juristo
Title: A Family of Experiments on Test-Driven Development
Journal: Empirical Software Engineering
Year: 2021
JCR position: Not available

8. Authors: Adrian Santos, Sira Vegas, Markku Oivo, Natalia Juristo
Title: Comparing the Results of Replications in Software Engineering
Journal: Empirical Software Engineering, Vol. 26, pp: 1-41
Year: 2021
JCR position: Not available

9. Authors: Beatriz Bernárdez, Amador Durán Toro, Jose Antonio Parejo Maestre, Natalia Juristo, Antonio Ruiz-Cortés
Title: Effects of Mindfulness on Conceptual Modelling Performance: A Series of Experiments
Journal: IEEE Transactions on Software Engineering
Year: 2020
JCR position: 7 / 108 (quartile = Q1; impact factor = 6.226)

10. Authors: Danilo Martinez Espinoza, Xavier Ferré, Graciela Guerrero, Natalia Juristo
Title: An Agile-Based Integrated Framework for Mobile Application Development Considering Ilities
Journal: IEEE Access, Vol. 8, pp: 72461-72470
Year: 2020
JCR position: 65 / 162 (quartile = Q2; impact factor = 3.367)

11. Authors: Adrian Santos, Sira Vegas, Fernando Uyaguari, Oscar Dieste, Burak Turhan, Natalia Juristo
Title: Increasing Validity Through Replication: An Illustrative TDD Case
Journal: Software Quality Journal, Vol. 28, pp: 371-395
Year: 2020
JCR position: 65 / 108 (quartile = Q3; impact factor = 1.642)

12. Authors: Sira Vegas, Patricia Riofrío, Esperanza Marcos, Natalia Juristo
Title: On (Mis)Perceptions of Testing Effectiveness: An Empirical Study
Journal: Empirical Software Engineering, Vol. 25, pp: 2844-2896
Year: 2020
JCR position: 40 / 108 (quartile = Q2; impact factor = 2.522)

13. Authors: Juan M. Ferreira, Silvia T. Acuña, Oscar Dieste, Sira Vegas, Adrián Santos, NULL, Natalia Juristo
Title: Impact of usability mechanisms: an experiment on efficiency, effectiveness and user satisfaction
Journal: Information and Software Technology, Vol. 117, Num. 1
Year: 2020
JCR position: 31 / 108 (quartile = Q2; impact factor = 2.730)

14. Authors: Adrian Santos, Omar S. Gómez, Natalia Juristo
Title: Analyzing Families of Experiments in SE: A Systematic Mapping Study
Journal: IEEE Transactions on Software Engineering, Vol. 46, Num. 5, pp: 566-583
Year: 2020
JCR position: 7 / 108 (quartile = Q1; impact factor = 6.226)

15. Authors: Davide Fucci, Giuseppe Scanniello, Simone Romano, Natalia Juristo
Title: Need for Sleep: The Impact of a Night of Sleep Deprivation on Novice Developers' Performance
Journal: IEEE Transactions on Software Engineering, Vol. 46, Num. 1, pp: 1-19
Year: 2020
JCR position: 7 / 108 (quartile = Q1; impact factor = 6.226)

16. Authors: Ayse Tosun, Oscar Dieste, Sira Vegas, Dietmar Pfahl, Kerli Rungi, Natalia Juristo
Title: Investigating the Impact of Development Task on External Quality in Test-Driven Development: An Industry Experiment

Journal: IEEE Transactions on Software Engineering
Year: 2019
JCR position: 4 / 108 (quartile = Q1; impact factor = 6.112)

17. **Authors:** Adrian Santos, Sira Vegas, Markku Oivo, Natalia Juristo
Title: A Procedure and Guidelines for Analyzing Groups of Software Engineering Replications
Journal: IEEE Transactions on Software Engineering
Year: 2019
JCR position: 4 / 108 (quartile = Q1; impact factor = 6.112)

18. **Authors:** Itir Karac, Burak Turhan, Natalia Juristo
Title: A Controlled Experiment with Novice Developers on the Impact of Task Description Granularity on Software Quality in Test-Driven Development
Journal: IEEE Transactions on Software Engineering
Year: 2019
JCR position: 4 / 108 (quartile = Q1; impact factor = 6.112)

19. **Authors:** Edison Espinosa, Silvia T. Acuña, Sira Vegas, Natalia Juristo
Title: Adopting Configuration Management Principles for Managing Experiment Materials in Families of Experiments
Journal: Information and Software Technology, Vol. 113, Num. 9, pp: 39-67
Year: 2019
JCR position: 28 / 108 (quartile = Q2; impact factor = 2.726)

20. **Authors:** Robert Feldt, Thomas Zimmermann, Gunnar R. Bergersen, Davide Falessi, Andreas Jedlitschka, Natalia Juristo, Jürgen Münch, Markku Oivo, Per Runeson, Martin Shepperd, Dag I. K. Sjøberg, Burak Turhan
Title: Four Commentaries on the Use of Students and Professionals in Empirical Software Engineering Experiments
Journal: Empirical Software Engineering, Vol. 23, Num. 6, pp: 3801-3820
Year: 2018
JCR position: 8 / 107 (quartile = Q1; impact factor = 4.457)

21. **Authors:** Jose Ignacio Panach, Oscar Dieste, Beatriz Marín, Sergio España, Sira Vegas, Oscar Pastor, Natalia Juristo
Title: Evaluating Model-Driven Development Claims with respect to Quality: A Family of Experiments
Journal: IEEE Transactions on Software Engineering, Vol. 47, Num. 1, pp: 130-145
Year: 2018
JCR position: 7 / 107 (quartile = Q1; impact factor = 4.778)

22. **Authors:** Martin Solari, Sira Vegas, Natalia Juristo
Title: Content and Structure of Laboratory Packages for Software Engineering Experiments
Journal: Information and Software Technology, Vol. 97, Num. 5, pp: 64-79
Year: 2018
JCR position: 17 / 107 (quartile = Q1; impact factor = 2.921)

23. **Authors:** Davide Falessi, Natalia Juristo, Claes Wholin, Burak Turhan, Jürgen Münch, Andreas Jedlitschka, Markku Oivo
Title: Empirical Software Engineering Experts on the Use of Students and Professionals in Experiments
Journal: Empirical Software Engineering, Vol. 23, Num. 1, pp: 452-489
Year: 2018
JCR position: 8 / 107 (quartile = Q1; impact factor = 4.457)

24. **Authors:** Dante Carrizo, Oscar Dieste, Natalia Juristo
Title: Contextual Attributes Impacting the Effectiveness of Requirements Elicitation Techniques:

Mapping Theoretical and Empirical Research
Journal: Information and Software Technology, Vol. 92, Num. 12, pp: 194-221
Year: 2017
JCR position: 16 / 104 (quartile = Q1; impact factor = 2.627)

25. Authors: Simone Romano, Davide Fucci, Giuseppe Scanniello, Burak Turhan, Natalia Juristo
Title: Findings from a Multi-method Study on Test-Driven Development
Journal: Information and Software Technology, Vol. 89, Num. 9, pp: 64-77
Year: 2017
JCR position: 16 / 104 (quartile = Q1; impact factor = 2.627)

26. Authors: Oscar Dieste, Alejandrina M. Aranda, Fernando Uyaguari, Burak Turhan, Ayse Tosun, Davide Fucci, Markku Oivo, Natalia Juristo
Title: Empirical Evaluation of the Effects of Experience on Code Quality and Programmer Productivity: An Exploratory Study
Journal: Empirical Software Engineering, Vol. 22, Num. 5, pp: 2457-2542
Year: 2017
JCR position: 11 / 104 (quartile = Q1; impact factor = 2.933)

27. Authors: Ayse Tosun, Oscar Dieste, Davide Fucci, Sira Vegas, Burak Turhan, Hakan Erdogmus, Adrian Santos, Markku Oivo, Kimmo Toro, Janne Jarvinen, Natalia Juristo
Title: An Industry Experiment on the Effects of Test-Driven Development on External Quality and Productivity
Journal: Empirical Software Engineering, Vol. 22, Num.6, pp: 2763-2805
Year: 2017
JCR position: 11 / 104 (quartile = Q1; impact factor = 2.933)

28. Authors: Davide Fucci, Hakan Erdogmus, Burak Turhan, Markku Oivo, Natalia Juristo
Title: A Dissection of Test-Driven Development: Does It Really Matter to Test-First or to Test-Last?
Journal: IEEE Transactions on Software Engineering, Vol. 43, Num. 7, pp: 597-614
Year: 2017
JCR position: 6 / 104 (quartile = Q1; impact factor = 3.331)

29. Authors: Sira Vegas, Cecilia Apa, Natalia Juristo
Title: Cross-Over Designs in Software Engineering Experiments: Benefits and Perils
Journal: IEEE Transactions on Software Engineering, Vol. 42, Num. 2, pp: 120-135
Year: 2016
JCR position: 9 / 106 (quartile = Q1; impact factor = 3.272)

30. Authors: Jonathan L. Krein, Lutz Prechelt, Natalia Juristo, Aziz Nanthaamornphong, Jeffrey C. Carver, Sira Vegas, Charles D. Knutson, Kevin D. Seppi, Dennis L. Eggett
Title: A Multi-Site Joint Replication of a Design Patterns Experiment Using Moderator Variables to Generalize across Contexts
Journal: IEEE Transactions on Software Engineering, Vol. 42, Num. 4, pp: 302-321
Year: 2016
JCR position: 9 / 106 (quartile = Q1; impact factor = 3.272)

31. Authors: Alejandrina Aranda, Oscar Dieste, Natalia Juristo
Title: Effect of Domain Knowledge on Elicitation Effectiveness: An Internally Replicated Controlled Experiment
Journal: IEEE Transactions on Software Engineering, Vol. 42, Num. 5, pp: 427-451
Year: 2016
JCR position: 9 / 106 (quartile = Q1; impact factor = 3.272)

32. Authors: Davide Fucci, Burak Turhan, Natalia Juristo, Oscar Dieste, Ayse Tosun-Misirli,

Markku Oivo
Title: Towards an Operationalization of Test-Driven Development Skills: An Industrial Empirical Study
Journal: Information and Software Technology, Vol. 68, Num. 12, pp: 82-97
Year: 2015
JCR position: 16 / 106 (quartile = Q1; impact factor = 1.569)

33. Authors: Francy D. Rodríguez, Silvia T. Acuña, Natalia Juristo
Title: Reusable Solutions for Implementing Usability Functionalities
Journal: International Journal of Software Engineering and Knowledge, Vol. 25, Num. 4, pp: 727-755
Year: 2015
JCR position: 101 / 106 (quartile = Q4; impact factor = 0.240)

34. Authors: Francy D. Rodríguez, Silvia T. Acuña, Natalia Juristo
Title: Design and Programming Patterns for Implementing Usability Functionalities in Web Applications
Journal: Journal of Systems and Software, Vol. 105, Num. 5, pp: 107 - 124
Year: 2015
JCR position: 24 / 106 (quartile = Q1; impact factor = 1.424)

35. Authors: José Ignacio Panach, Sergio España, Oscar Dieste, Oscar Pastor, Natalia Juristo
Title: In search of evidence for model-driven development claims: An experiment on quality, effort, productivity and satisfaction
Journal: Information and Software Technology, Vol. 62, Num. 06, pp: 164 - 186
Year: 2015
JCR position: 16 / 106 (quartile = Q1; impact factor = 1.569)

36. Authors: José Ignacio Panach, Natalia Juristo, Francisco Valverde, Oscar Pastor
Title: A Framework to Identify Primitives that Represent Usability within Model-Driven Development Methods
Journal: Information and Software Technology, Vol. 58, Num. 02, pp: 338 - 354
Year: 2015
JCR position: 16 / 106 (quartile = Q1; impact factor = 1.569)

37. Authors: Silvia T. Acuña, Marta N. Gómez, Jo E. Hannay, Natalia Juristo, Dietmar Pfahl
Title: Are Team Personality and Climate Related to Satisfaction and Software Quality? Aggregating Results from a Twice Replicated Experiment
Journal: Information and Software Technology, Vol. 57, Num. 01, pp: 141 - 156
Year: 2015
JCR position: 16 / 106 (quartile = Q1; impact factor = 1.569)

38. Authors: Andreas Jedlitschka, Natalia Juristo, Dieter Rombach
Title: Reporting Experiments to Satisfy Professionals' Information Needs
Journal: Empirical Software Engineering, Vol. 19, Num. 6, pp: 1921 - 1955
Year: 2014
JCR position: 9 / 104 (quartile = Q1; impact factor = 2.161)

39. Authors: Dante Carrizo, Oscar Dieste, Natalia Juristo
Title: Systematizing Requirements Elicitation Technique Selection
Journal: Information and Software Technology, Vol. 56, Num. 6, pp: 644 - 669
Year: 2014
JCR position: 46 / 104 (quartile = Q2; impact factor = 1.046)

40. Authors: Omar Gómez, Natalia Juristo, Sira Vegas
Title: Understanding Replication of Experiments in Software Engineering: A Classification
Journal: Information and Software Technology, Vol. 56, Num. 8, pp: 1033 - 1048

Year: 2014
JCR position: 46 / 104 (quartile = Q2; impact factor = 1.046)

41. Authors: Jeffrey C. Carver, Natalia Juristo, Maria Teresa Baldasarre, Sira Vegas
Title: Replications of Software Engineering Experiments
Journal: Empirical Software Engineering, Vol. 19, Num. 2, pp: 267 - 276
Year: 2014
JCR position: 9 / 104 (quartile = Q1; impact factor = 2.161)

42. Authors: Natalia Juristo, Sira Vegas, Martín Solari, Silvia Abrahao, Isabel Ramos
Title: A Process for Managing Interaction between Experimenters to Get Useful Similar Replications
Journal: Information and Software Technology, Vol. 55, Num. 2, pp: 215 – 225
Year: 2013
JCR position: 31 / 105 (quartile = Q2; impact factor = 1.328)

43. Authors: José Ignacio Panach, Natalia Juristo, Oscar Pastor
Title: Including Functional Usability Features in a Model-Driven Development Method
Journal: Computer Science and Information Systems, Vol. 10, Num. 3, pp: 999 - 1024
Year: 2013
JCR position: 84 / 105 (quartile = Q4; impact factor = 0.575)

44. Authors: Olorisade Babatunde Kazeem, Sira Vegas, Natalia Juristo
Title: Determining the Effectiveness of Three Software Evaluation Techniques Through Informal Aggregation
Journal: Information and Software Technology, Vol. 55, Num. 9, pp: 1590 - 1601
Year: 2013
JCR position: 31 / 105 (quartile = Q2; impact factor = 1.328)

45. Authors: Silvia T. Acuña, John W. Castro, Natalia Juristo
Title: A HCI Technique for Improving Requirements Elicitation
Journal: Information and Software Technology, Vol. 54, Num. 12, pp: 1357 - 1375
Year: 2012
JCR position: 23 / 105 (quartile = Q1; impact factor = 1.522)

46. Authors: Oscar Dieste, Natalia Juristo
Title: Systematic Review and Aggregation of Empirical Studies on Elicitation Techniques
Journal: IEEE Transactions on Software Engineering, Vol. 37, Num. 2, pp: 283 - 304
Year: 2011
JCR position: 6 / 103 (quartile = Q1; impact factor = 1.980)

47. Authors: Natalia Juristo, Sira Vegas
Title: The Role of Non-Exact Replications in Software Engineering Experiments
Journal: Empirical Software Engineering, Vol. 16, Num. 3, pp: 295 - 324
Year: 2011
JCR position: 11 / 103 (quartile = Q1; impact factor = 1.854)

48. Authors: Oscar Dieste, Anna Grimán, Natalia Juristo
Title: Developing Search Strategies for Detecting Relevant Experiments
Journal: Empirical Software Engineering, Vol. 14, Num. 5, pp: 513 - 539
Year: 2009
JCR position: 27 / 93 (quartile = Q2; impact factor = 1.612)

49. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas, Forrest Shull
Title: A Look at 25 Years of Data
Journal: IEEE Software, Vol. 26, Num. 1, pp: 15 - 17
Year: 2009

JCR position: 14 / 93 (quartile = Q1; impact factor = 2.039)

50. Authors: Sira Vegas, Natalia Juristo, Victor R. Basili
Title: Maturing Software Engineering Knowledge through Classifications: A Case Study on Unit Testing Techniques
Journal: IEEE Transactions on Software Engineering, Vol. 35, Num. 4, pp: 551 - 565
Year: 2009
JCR position: 1 / 93 (quartile = Q1; impact factor = 3.750)

51. Authors: Oscar Dieste, Natalia Juristo, Forrest Shull
Title: Understanding the Customer: What Do We Know about Requirements Elicitation?
Journal: IEEE Software, Vol. 25, Num. 2, pp: 11 - 13
Year: 2008
JCR position: 15 / 86 (quartile = Q1; impact factor = 2.099)

52. Authors: Forrest Shull, Jeffrey Carver, Sira Vegas, Natalia Juristo
Title: The Role of Replications in Empirical Software Engineering
Journal: Empirical Software Engineering, Vol. 13, Num. 2, pp: 211 - 218
Year: 2008
JCR position: 41 / 86 (quartile = Q2; impact factor = 1.091)

53. Authors: Silvia T. Acuña, Marta Gómez, Natalia Juristo
Title: Towards Understanding the Relationship between Team Climate and Software Quality: a Quasi-Experimental Study
Journal: Empirical Software Engineering, Vol. 13, Num. 4, pp: 401 - 434
Year: 2008
JCR position: 41 / 86 (quartile = Q2; impact factor = 1.091)

54. Authors: Natalia Juristo, Ana M. Moreno, María I. Sánchez-Segura
Title: Analysing the impact of usability on software design
Journal: Journal of Systems and Software, Vol. 80, Num. 9, pp: 1506 - 1516
Year: 2007
JCR position: 43 / 84 (quartile = Q3; impact factor = 0.799)

55. Authors: Natalia Juristo, Ana M. Moreno, María I. Sánchez-Segura
Title: Guidelines for Eliciting Patterns Usability Functionalities
Journal: IEEE Transactions on Software Engineering, Vol. 33, Num. 11, pp: 744 - 758
Year: 2007
JCR position: 6 / 84 (quartile = Q1; impact factor = 2.105)

56. Authors: Silvia T. Acuña, Natalia Juristo, Ana M. Moreno
Title: Emphasizing human capabilities in software development
Journal: IEEE Software, Vol. 23, Num. 2, pp: 94 - 101
Year: 2006
JCR position: 20 / 82 (quartile = Q1; impact factor = 1.252)

57. Authors: Sira Vegas, Natalia Juristo, Victor Basili
Title: Packaging Experiences for Improving Testing Technique Selection
Journal: Journal of Systems and Software, Vol. 79, pp: 1606 - 1618
Year: 2006
JCR position: 56 / 82 (quartile = Q3; impact factor = 0.592)

58. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas, Martín Solari
Title: In Search of What We Experimentally Know about Unit Testing
Journal: IEEE Software, Vol. 23, Num. 6, pp: 72 - 80
Year: 2006
JCR position: 20 / 82 (quartile = Q1; impact factor = 1.252)

59. Authors: Natalia Juristo, Ana M. Moreno, Wolfang Stiegel
Title: Guest Editors' Introduction: Software Testing Practices
Journal: IEEE Software, Vol. 23, Num. 4
Year: 2006
JCR position: 20 / 82 (quartile = Q1; impact factor = 1.252)

60. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas
Title: Reviewing 25 Years of Testing Technique Experiments
Journal: Empirical Software Engineering, Vol. 9, Num. 1-2, pp: 7 - 44
Year: 2004

61. Authors: Oscar Dieste, Natalia Juristo, Ana M. Moreno
Title: How higher-education systems influence software engineering degree programs
Journal: IEEE Software, Vol. 21, Num. 4, pp: 78 - 85
Year: 2004
JCR position: 14 / 76 (quartile = Q1; impact factor = 1.481)

62. Authors: Oscar Dieste, Marcela Genero, Natalia Juristo, José L. Maté, Ana M. Moreno
Title: A conceptual model completely independent of the implementation paradigm
Journal: Journal of Systems and Software, Vol. 68, Num. 3, pp: 183 - 198
Year: 2003
JCR position: 51 / 78 (quartile = Q3; impact factor = 0.528)

63. Authors: Sira Vegas, Natalia Juristo, Victor Basili
Title: What information is relevant when selecting software testing techniques?
Journal: International Journal of Software Engineering and Knowledge Engineering, Vol. 12, Num. 6, pp: 657 - 674
Year: 2002
JCR position: 55 / 77 (quartile = Q3; impact factor = 0.338)

64. Authors: Natalia Juristo, Ana M. Moreno
Title: Reliable Knowledge for Software Development
Journal: IEEE Software, Vol. 19, Num. 5, pp: 98 - 99
Year: 2002
JCR position: 12 / 77 (quartile = Q1; impact factor = 1.068)

65. Authors: Natalia Juristo, Ana M. Moreno, Andrés Silva
Title: Is the European Industry Moving toward Solving Requirements Engineering Problems?
Journal: IEEE Software, Vol. 19, Num. 6, pp: 70 - 77
Year: 2002
JCR position: 12 / 77 (quartile = Q1; impact factor = 1.068)

66. Authors: Xavier Ferré, Natalia Juristo, Helmut Windl, Larry Constantine
Title: Usability Basics for Software Developers
Journal: IEEE Software, Vol. 18, Num. 1, pp: 22 - 30
Year: 2001
JCR position: 23 / 75 (quartile = Q2; impact factor = 0.840)

67. Authors: Natalia Juristo, Helmut Windl, Larry Constantine
Title: Introducing usability
Journal: IEEE Software, Vol. 18, Num. 1, pp: 20 - 21
Year: 2001
JCR position: 23 / 75 (quartile = Q2; impact factor = 1.398)

68. Authors: Oscar Dieste, Natalia Juristo, Ana M. Moreno, Marta López
Title: Integrated Software Engineering and Knowledge Engineering Teaching Experiences

Journal: International Journal of Software Engineering and Knowledge Engineering, Vol. 10, Num. 3, pp: 275 - 300
Year: 2000
JCR position: 51 / 74 (quartile = Q3; impact factor = 0.317)

69. Authors: Natalia Juristo, Ana M. Moreno, Marta López
Title: How to Use Linguistic Instruments for Object-Oriented Analysis
Journal: IEEE Software, Vol. 17, Num. 3, pp: 80 - 89
Year: 2000
JCR position: 16 / 74 (quartile = Q1; impact factor = 1.028)

70. Authors: Ana M. Moreno, Natalia Juristo, Reind Van de Riet
Title: Formal Justification in Object-Oriented Modelling: A Linguistic Approach
Journal: Data and Knowledge Engineering, Vol. 33, Num. 1, pp: 25 - 47
Year: 2000
JCR position: 35 / 71 (quartile = Q2; impact factor = 0.582)

71. Authors: Natalia Juristo, Ana M. Moreno
Title: Introductory Paper: Reflections on Conceptual Modelling
Journal: Data and Knowledge Engineering, Vol. 33, Num. 2, pp: 103 - 117
Year: 2000
JCR position: 30 / 67 (quartile = Q2; impact factor = 0.582)

72. Authors: Juan Ares, Rafael García, Marta López, Natalia Juristo, Ana M. Moreno
Title: A More Rigorous and Comprehensive Approach to Software Process Assessment
Journal: Software Process: Improvement and Practice, Vol. 5, Num. 1, pp: 3 - 30
Year: 2000
JCR position: 34 / 74 (quartile = Q2; impact factor = 0.504)

73. Authors: Silvia T. Acuña, Marta López, Natalia Juristo, Ana M. Moreno
Title: A Process Model Applicable to Software Engineering and Knowledge Engineering
Journal: International Journal of Software Engineering and Knowledge Engineering, Vol. 9, Num. 5, pp: 663 - 687
Year: 1999
JCR position: 64 / 67 (quartile = Q4; impact factor = 0.040)

74. Authors: Natalia Juristo, José L. Morant, Ana M. Moreno
Title: A Formal Approach for Generating OO Specifications from Natural Language
Journal: Journal of Systems and Software, Vol. 48, Num. 2, pp: 139 - 153
Year: 1999
JCR position: 53 / 67 (quartile = Q4; impact factor = 0.237)

75. Authors: Beatriz Recio, Silvia T. Acuña, Natalia Juristo
Title: Methodological Proposal for Modelling and Implementing Regulation Application Problems in a Knowledge-Based System
Journal: Agricultural Systems, Vol. 60, Num. 1, pp: 17 - 53
Year: 1999
JCR position: 24 / 113 (quartile = Q1; impact factor = 0.854)

76. Authors: Natalia Juristo, José L. Morant
Title: Common Framework for the Evaluation Process of KBS and Conventional Software
Journal: Knowledge-Based Systems, Vol. 11, Num. 2, pp: 145 - 160
Year: 1998
JCR position: 53 / 62 (quartile = Q4; impact factor = 0.159)

77. Authors: Priscila Fowler, Isabel García, Natalia Juristo, Linda Levine, José L. Morant
Title: An Expert System in the Domain of Software Technology Transfer

Journal: Expert Systems with Applications, Vol. 12, Num. 3, pp: 275 - 300
Year: 1997
JCR position: 52 / 54 (quartile = Q4; impact factor = 0.030)

78. Authors: Silvia T. Acuña, Natalia Juristo, Beatriz Recio
Title: Knowledge-based System for Generating Administrative Grant Alternatives Applying the IDEAL Methodology
Journal: Computers and Electronics in Agriculture, Vol. 18, Num. 1, pp: 1 - 28
Year: 1997
JCR position: 25 / 63 (quartile = Q2; impact factor = 0.466)

79. Authors: Fernando Alonso, Natalia Juristo, José L. Maté, Juan Pazos
Title: Software Engineering and Knowledge Engineering: Towards a Common Life Cycle
Journal: Journal of Systems and Software, Vol. 33, Num. 1, pp: 65 - 79
Year: 1996

80. Authors: Fernando Alonso, Natalia Juristo, Juan Pazos
Title: Trends in Life-Cycle Models for SE and KE: Proposal for a Spiral-Conical Life-Cycle Approach
Journal: International Journal of Software Engineering and Knowledge Engineering, Vol. 5, Num. 3, pp: 445 - 465
Year: 1995

Other Journals Papers

Number of entries: 4

1. Authors: Alan Davis, Oscar Dieste, Ann Hickey, Natalia Juristo, Ana M. Moreno
Title: Producción Científica en Ingeniería de Requisitos en España: Un Análisis en el Contexto Europeo
Journal: IEEE América Latina, Vol. 4, Num. 2, pp: 55 - 61
Year: 2006

2. Authors: Natalia Juristo
Title: KBS Evaluation
Journal: The Journal for the Integrated Study of AI, Cognitive Science and Applied Epistemology, Vol. 11, Num. 3, pp: 225 - 257
Year: 1994

3. Authors: Natalia Juristo, Juan Pazos
Title: The Knowledge Engineer in the Knowledge Industry
Journal: Heuristics, Vol. 4, Num. 2, pp: 43 - 53
Year: 1991

4. Authors: Natalia Juristo
Title: Towards a New Approach in Knowledge Acquisition from Text
Journal: Heuristics, Vol. 3, Num. 3, pp: 18 - 24
Year: 1990

Contracts

Participation in R+D Contracts of Particular Relevance with Companies or Organizations in the Role of Project Leader

Number of entries: 5

1. Contract Title: Tecnologías para la Replicación y Síntesis de Experimentos en IS
Contract Type: I+D
Acceptance Company/Organization:
Participating Entities:
Duration: from 2011 **to:** 2013
Responsible Researcher: Natalia Juristo
TOTAL COST OF THE PROJECT: 134.068 EUR

2. Contract Title: European Masters Course on Software Engineering
Contract Type: Teaching
Acceptance Company/Organization: European Union
Participating Entities:
Duration: from September 2006 **to:** September 2013
Responsible Researcher: Natalia Juristo
TOTAL COST OF THE PROJECT: 4 Mill. EUR (aprox)

3. Contract Title: Mejora de la Usabilidad Mediante Mecanismos
Contract Type: R+D
Acceptance Company/Organization: Indra
Participating Entities:
Duration: from March 2004 **to:** December 2004
Responsible Researcher: Natalia Juristo
Number of Participating Researchers: 2
TOTAL COST OF THE PROJECT: 3.500 EUR

4. Contract Title: Definition of a Conceptual Model Oriented to the User
Contract Type: R+D
Acceptance Company/Organization: Media Planning
Participating Entities:
Duration: from January 2002 **to:** December 2002
Responsible Researcher: Natalia Juristo
Number of Participating Researchers: 4
TOTAL COST OF THE PROJECT: 37.036 EUR

5. Contract Title: Support System for Strategic and Tactic Marketing Campaings
Contract Type: R+D
Acceptance Company/Organization: Media Planning
Participating Entities:
Duration: from August 1998 **to:** December 1999
Responsible Researcher: Natalia Juristo
Number of Participating Researchers: 4
TOTAL COST OF THE PROJECT: 5.099.780 pts.

Participation in R+D Contracts of Particular Relevance with Companies or Organizations in the Role of Researcher

Number of entries: 0

Foreign Sojourns

Stays in Foreign Centers

(continuous stay exceeding one month)

Number of entries: 3

1. Center: Software Engineering Institute, Carnegie Mellon University
Location: Pittsburgh **Country:** USA **Date:** 1992
Duration (in weeks): 36
Subject: Software Architecture
Code: Post-doctoral visit

2. Center: European Space Agency (ESA)
Location: Roma **Country:** Italy **Date:** 1989
Duration (in weeks): 48
Subject: Space Information Systems
Code: Staff

3. Center: European Organization for Nuclear Research (CERN)
Location: Ginebra **Country:** Switzerland **Date:** 1988
Duration (in weeks): 36
Subject: Communications Engineer
Code: Staff

Editorial Boards and Reviews

Editorial Boards and Special Issues

Number of entries: 7

1. Journal: Software Quality Journal
Date from: 2015 **to:** March 1 of 2019

2. Journal: Software: Testing, Verification and Reliability
Date from: May 2016 **to:** December 16 of 2019

3. Journal: IEEE Transactions on Software Engineering
Date from: 2014 **to:** 2018

4. Journal: Empirical Software Engineering
Date from: 2002 **to:** August 2021

5. Journal: International Journal of Software Engineering and Knowledge Engineering
Date from: 1998

6. Journal: IEEE Software
Date from: 1997 **to:** 2001

7. Journal: The Journal for the Integrated Study of AI, Cognitive Science and Applied Epistemology
Date from: 1995 **to:** 2000

Advisory Member of Editorial Board

Number of entries: 1

1. Journal: Empirical Software Engineering Journal
Date from: August 2021

Special Issue's Editor

Number of entries: 6

1. Special Issue: Special Issue on Experimental Replications
Journal: Empirical Software Engineering Journal
Year: October 2013

2. Special Issue: Special Issue on the Interplay between Usability Evaluation and Software Development
Journal: Journal of Systems and Software, Vol. 83, Num. 11
Year: 2010

3. Special Issue: Special Issue on: Software Testing Practices in Industries
Journal: IEEE Software, Vol. 23, Num. 4
Year: July 2006

4. Special Issue: Software Engineering and Knowledge Engineering
Journal: Expert Systems with Applications, Vol. 23, Num. 4
Year: November 2002

5. Special Issue: Special Issue on Usability Engineering
Journal: IEEE Software, Vol. 18, Num. 1
Year: January 2001

6. Special Issue: Special Issue on Conceptual Modeling
Journal: Data and Knowledge Engineering, Vol. 33, Num. 2
Year: 2000

Articles in Conferences

International Conferences

Number of entries: 68

1. Authors: Nyyti Saarimäki, Valentina Lenarduzzi, Sira Vegas, Natalia Juristo, Davide Taibi
Title: Cohort Studies in Software Engineering: A Vision of the Future
Conference: Empirical Software Engineering and Measurement (ESEM)
Place, date: Bari (Italy), 2020

2. Authors: Simone Romano, Davide Fucci, Giuseppe Scanniello, Maria Teresa Baldassarre, Burak Turhan, Natalia Juristo
Title: Researcher Bias in Software Engineering Experiments: A Qualitative Investigation
Conference: EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA)
Place, date: Kranj (Slovenia), 2020
Best Full Paper Award

3. Authors: Rolando P. Reyes, Oscar Dieste, Efraín R. Fonseca C., Natalia Juristo
Title: Publication Bias: A Detailed Analysis of Experiments Published in ESEM
Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
Place, date: Trondheim (Norway), 2020

4. Authors: Adrian Santos, Sira Vegas, Markku Oivo, Natalia Juristo
Title: A Procedure and Guidelines for Analyzing Groups of Software Engineering Replications
Conference: International Conference on Software Engineering (ICSE – Track: Journal-First Papers)
Place, date: Seoul (South Korea), 2020

5. Authors: Adrian Santos, Omar Gomez, Natalia Juristo
Title: Analyzing Families of Experiments in SE: A Systematic Mapping Study
Conference: International Conference on Software Engineering (ICSE – Track: Journal-First Papers)
Place, date: Montreal (Canada), 2019

6. Authors: Davide Fucci, Giuseppe Scanniello, Simone Romano, Natalia Juristo
Title: Need for Sleep: The Impact of a Night of Sleep Deprivation on Novice Developers' Performance
Conference: International Conference on Software Engineering (ICSE – Track: Journal-First Papers)
Place, date: Montreal (Canada), 2019

7. Authors: Davide Fucci, Simone Romano, Maria Teresa Baldassarre, Danilo Caivano, Giuseppe Scanniello, Burak Thuran, Natalia Juristo
Title: A Longitudinal Cohort Study on the Retainment of Test-Driven Development
Conference: Empirical Software Engineering and Measurement (ESEM)
Place, date: Oulu (Finland), 2018

8. Authors: Adrian Santos, Natalia Juristo
Title: Comparing Techniques for Aggregating Interrelated Replications in Software Engineering
Conference: Empirical Software Engineering and Measurement (ESEM)
Place, date: Oulu (Finland), 2018
Best Full Paper Award

9. Authors: Simone Romano, Giuseppe Scanniello, Davide Fucci, Natalia Juristo, Burak Turhan
Title: The Effect of Noise on Sofware Engineers' Performance
Conference: Empirical Software Engineering and Measurement (ESEM)
Place, date: Oulu (Finland), 2018

10. Authors: Rolando P. Reyes, Oscar Dieste, Efrain R. Fonseca C., Natalia Juristo
Title: Statistical Errors in Software Engineering Experiments: A Preliminary Literature Review
Conference: International Conference on Software Engineering (ICSE)
Place, date: Gothenburg (Sweden), 2018

11. Authors: Ayse Tosun, Muzamil Ahmed, Burak Turhan, Natalia Juristo
Title: On the Effectiveness of Unit Tests in Test-Driven Development
Conference: International Conference on Software and System Process (ICSSP)
Place, date: Gothenburg (Sweden), 2018

12. Authors: Adrian Santos, Jaroskav Spisak, Markku Oivo, Natalia Juristo
Title: Improving Development Practices through Experimentation: An Industrial TDD Case
Conference: Asia-Pacific Software Engineering Conference (APSEC)
Place, date: Nara (Japan), 2018

13. Authors: Adrian Santos, Janne Järvinen, Jari Partanen, Markku Oivo, Natalia Juristo
Title: Does the Performance of TDD Hold Across Software Companies and Premises? A Group of Industrial Experiments on TDD
Conference: International Conference on Product-Focused Software Process Improvement (PROFES)
Place, date: Wolfsburg (Germany), 2018

14. Authors: Davide Fucci, Hakan Erdogmus, Burak Turhan, Markku Oivo, Natalia Juristo
Title: A Dissection of Test-Driven Development: Does It Really Matter to Test-First or to Test-Last?
Conference: International Conference on Software Engineering (ICSE – Track: Journal-First Papers)
Place, date: Buenos Aires (Argentina), 2017

15. Authors: Robert Ramac, Itic Karac, Burak Turhan, Natalia Juristo, Vladimir Mandic
Title: Lessons Learned from a Partial Replication of an Experiment in the Context of a Software Engineering Course
Conference: International Scientific Conference on Industrial Systems (IS)
Place, date: Novi Sad (Serbia), 2017

16. Authors: Omar Gómez, Sira Vegas, Natalia Juristo
Title: Impact of CS Programs on the Quality of Test Cases Generation: An Empirical Study
Conference: International Conference on Software Engineering Companion (ICSE-C)
Place, date: Austin, TX (USA), 2016

17. Authors: Simone Romano, Davide Fucci, Giuseppe Scanniello, Burak Turhan and Natalia Juristo
Title: Results from an Ethnographically-Informed Study in the Context of Test Driven Development
Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
Place, date: Limerick (Ireland), 2016

18. Authors: Davide Fucci, Giuseppe Scanniello, Simone Romano, Martin Shepperd, Boyce Sigweni, Fernando Uyaguari, Burak Turhan, Natalia Juristo and Markku Oivo
Title: An External Replication on the Effects of Test-driven Development Using a Multi-site Blind Analysis

Conference: Empirical Software Engineering and Measurement (ESEM)
Place, date: Ciudad Real (Spain), 2016
Best Full Paper Award

19. **Authors:** I. Salman, Ayse Tosun Misirli, Natalia Juristo
Title: Are Students Representatives of Professionals in Software Engineering Experiments?
Conference: International Conference on Software Engineering (ICSE)
Place, date: Florence (Italy), 2015

20. **Authors:** Sira Vegas, Oscar Dieste, Natalia Juristo
Title: Difficulties in Running Experiments in the Software Industry: Experiences from the Trenches
Conference: International Workshop on Conducting Empirical Studies in Industry (CESI)
Place, date: Florence (Italy), 2015

21. **Authors:** Efraín R. Fonseca C., Oscar Dieste, Natalia Juristo, Estefanía Serral, Stefan Biffl
Title: Reviewing technical approaches for sharing and preservation of experimental data
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Torino (Italy), 2014

22. **Authors:** Jorge E. González, Natalia Juristo, Sira Vegas
Title: A systematic mapping study on testing technique experiments: Has the situation changed since 2000?
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Torino (Italy), 2014

23. **Authors:** Ayse Tosun Misirli, Hakan Erdogmus, Natalia Juristo, Oscar Dieste
Title: Topic selection in industry experiments
Conference: International Workshop on Conducting Empirical Studies in Industry (CESI)
Place, date: Hyderabad (India), 2014

24. **Authors:** Alejandrina Aranda, Oscar Dieste, Natalia Juristo
Title: Evidence of the presence of bias in subjective metrics: Analysis within a family of experiments
Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
Place, date: London (UK), 2014

25. **Authors:** Maria Teresa Baldassarre, Jeffrey Carver, Oscar Dieste, Natalia Juristo
Title: Replication types: towards a shared taxonomy
Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
Place, date: London (UK), 2014

26. **Authors:** Oscar Dieste, Natalia Juristo, Danilo Martínez
Title: Software Industry Experiments: A Systematic Literature Review
Conference: International Workshop on Conducting Empirical Studies in Industry (CESI)
Place, date: San Francisco (USA), 2013

27. **Authors:** Stefan Biffl, Estefanía Serral, Dietmar Winkler, Nelly Condori-Fernández, Oscar Dieste, Natalia Juristo
Title: Replication Data Management: Needs and Solutions – An Initial Evaluation of Conceptual Approaches for Integrating Heterogeneous Replication Study Data
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Baltimore, Maryland (USA), 2013

28. Authors: Silvia T. Acuña, John W. Castro, Oscar Dieste, Natalia Juristo
Title: A Systematic Mapping Study on the Open Source Software Development Process
Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
Place, date: Ciudad Real (Spain), 2012

29. Authors: José Ignacio Panach, Natalia Juristo, Oscar Pastor
Title: Introducing Usability in a Conceptual Modeling-Based Software Development Process
Conference: International Conference on Conceptual Modeling (ER)
Place, date: Florence (Italy), 2012

30. Authors: Oscar Dieste, Enrique Fernández, Ramón García-Martínez, Natalia Juristo
Title: The Risk of Using the Q Heterogeneity Estimator for Software Engineering Experiments
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Banff, Alberta (CANADA), 2011

31. Authors: Dante Carrizo, Oscar Dieste, Natalia Juristo, Marta López
Title: Estudio experimental de la efectividad de la entrevista abierta frente a la entrevista independiente de contexto
Conference: Workshop em Engenharia de Requisitos (WER)
Place, date: Rio de Janeiro (BRASIL), 2011

32. Authors: Oscar Dieste, Enrique Fernández, Ramón García-Martínez, Natalia Juristo
Title: Comparative analysis of meta-analysis methods: when to use which?
Conference: Evaluation and Assesment on Software Engineering Conference (EASE)
Place, date: Durham (UK), 2011

33. Authors: Oscar Dieste, Anna Grimán, Natalia Juristo, Himanshu Saxena
Title: Quantitative Determination of the Relationship between Internal Validity and Bias in Software Engineering Experiments: Consequences for Systematic Literature Reviews
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Banff, Albert (CANADA), 2011

34. Authors: Natalia Juristo, Sira Vegas
Title: Design Patterns in Software Maintenance: An Experiment Replication at UPM - Experiences with the RESER'11 Joint Replication Project
Conference: International Workshop on Replication in Empirical Software Engineering Research at ICSE (RESER)
Place, date: Banff, Albert (CANADA), 2011

35. Authors: Omar Gómez, Natalia Juristo, Sira Vegas
Title: Replications Types in Experimental Disciplines
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Bolzano (Italy), 2010

36. Authors: Omar Gómez, Natalia Juristo, Sira Vegas
Title: Replication, Reproduction and Re-analysis: Three ways for verifying experimental findings in Software Engineering
Conference: International Workshop on Replication in Empirical Software Engineering Research at ICSE (RESER)
Place, date: Cape Town (South Africa), 2010

37. Authors: Oscar Dieste, Enrique Fernández, Ramón García-Martínez, Natalia Juristo
Title: Hidden Evidence Behind Useless Replications
Conference: International Workshop on Replication in Empirical Software Engineering

Research at ICSE (RESER)
Place, date: Cape Town (South Africa), 2010

38. Authors: Natalia Juristo, Sira Vegas
Title: Using Differences among Replications of Software Engineering Experiments to Gain Knowledge
Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Place, date: Orlando (USA), 2009
Best Full Paper Award

39. Authors: John W. Castro, Silvia T. Acuña, Natalia Juristo
Title: Integrating the Personas Technique into the Requirements Analysis Activity
Conference: Mexican International Conference on Computer Science (ENC)
Place, date: Mexicali, Baja California, Mexico, 2008

40. Authors: John W. Castro, Silvia T. Acuña, Natalia Juristo
Title: Enriching Requirements Analysis with the Personas Technique
Conference: Workshop on the Interplay between Usability Evaluation and Software Development (I-USED)
Place, date: Pisa, Italy, 2008

41. Authors: Dante Carrizo, Oscar Dieste, Natalia Juristo
Title: Study of Elicitation Techniques Adequacy
Conference: Workshop em Engenharia de Requisitos (WER)
Place, date: Barcelona, Spain, 2008

42. Authors: Natalia Juristo, Ana M. Moreno, María I. Sánchez-Segura, Calani Baranauskas
Title: A Glass Box Design: Making the Impact of Usability on Software Development Visible
Conference: International Conference on Human-Computer Interaction (INTERACT)
Place, date: Rio de Janeiro, Brazil, 2007

43. Authors: Alan Davis, Ann Hickey, Oscar Dieste, Natalia Juristo, Ana M. Moreno
Title: A Quantitative Assessment of Requirements Engineering Publications 1963-2006
Conference: International Working Conference Requirements Engineering: Foundation for Software Quality (REFSQ)
Place, date: Trondheim, Norway, 2007

44. Authors: Alan Davis, Oscar Dieste, Ann M. Hickey, Natalia Juristo, Ana M. Moreno
Title: Effectiveness of Requirements Elicitation Techniques: Empirical Results derived from a Systematic Review
Conference: International Conference on Requirements Engineering (RE)
Place, date: Minneapolis/St. Paul, Minnesota, USA, 2006

45. Authors: Sira Vegas, Natalia Juristo, Ana M. Moreno, Martín Solari, Patricio Letelier
Title: Analysis of the Influence of Communication between Researchers on Experiment Replication
Conference: International Symposium on Empirical Software Engineering (ISESE)
Place, date: Rio de Janeiro, Brazil, 2006

46. Authors: Eustace Asanghanwa, Alan Davis, Oscar Dieste, Ann Hickey, Natalia Juristo, Ana M. Moreno
Title: Requirements Engineering Research: A Microcosm of International Economic and Political Trends
Conference: International Working Conference Requirements Engineering: Foundation for Software Quality (REFSQ)
Place, date: Porto, Portugal, 2005

47. Authors: Xavier Ferré, Natalia Juristo, Ana M. Moreno
Title: Framework for Integrating Usability Practices into the Software Process
Conference: International Conference on Product Focused Process Improvement (PROFES)
Place, date: Oulu, Finland, 2005

48. Authors: Natalia Juristo, Ana M. Moreno, María I. Sánchez-Segura
Title: Clarifying the Relationship between Software Architecture and Usability
Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
Place, date: Banff, Alberta, Canada, 2004

49. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas
Title: Towards Building a Solid Empirical Body of Knowledge in Testing Techniques
Conference: Workshop on Empirical Research in Software Testing (WERST)
Place, date: Boston (Massachusetts), USA, 2004

50. Authors: Sira Vegas, Natalia Juristo, Ana M. Moreno
Title: Aggregating the Results of 25 Years of Testing Technique Experiments
Conference: International Software Engineering Research Network (ISERN)
Place, date: Redondo Beach (California), USA, 2004

51. Authors: Xavier Ferré, Natalia Juristo, Ana M. Moreno, María I. Sánchez-Segura
Title: A Software Architectural View of Usability Patterns
Conference: International Conference on Human-Computer Interaction (INTERACT)
Place, date: Zurich, Switzerland, 2003

52. Authors: Natalia Juristo, Marta López, Ana M. Moreno, María I. Sánchez-Segura
Title: Improving Software Usability through Architectural Patterns
Conference: International Conference on Software Engineering (ICSE)
Place, date: Portland, USA, 2003

53. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas
Title: Maturity of Testing Technique Knowledge
Conference: International Symposium on Software Reliability Engineering (ISSRE)
Place, date: Annapolis (Maryland), USA, 2002

54. Authors: Natalia Juristo, Ana M. Moreno, Sira Vegas
Title: A Survey on Testing Technique Empirical Studies: How Limited is our Knowledge
Conference: International Symposium on Empirical Software Engineering (ISESE)
Place, date: Nara, Japan, 2002

55. Authors: Natalia Juristo, Ana M. Moreno, Andrés Silva
Title: Proposal of a Joint Software Engineering and Knowledge Engineering Program
Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
Place, date: Kaiserslauten, Germany, 1999

56. Authors: Juan Ares, Rafael García, Natalia Juristo, Marta López
Title: Formilizing the Evaluation of Software Process
Conference: Software Engineering Process Groups Conference (SEPG)
Place, date: Atlanta, USA, 1999

57. Authors: Natalia Juristo, Ana M. Moreno
Title: An Adaptation of Experimental Design to Software Engineering
Conference: Annual NASA Software Engineering Workshop (ANSEW)
Place, date: Maryland, USA, 1998

58. Authors: Natalia Juristo, Ana M. Moreno
Title: Object-Oriented Modeling Focused on a Linguistic Approach
Conference: Annual NASA Software Engineering Workshop (ANSEW)
Place, date: Maryland, USA, 1997

59. Authors: Natalia Juristo
Title: A common Framework for Conventional and Knowledge-based Software Validation and Verification
Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
Place, date: Madrid, Spain, 1997

60. Authors: Pamela Fowler, Natalia Juristo, L. Levin
Title: Maturing the Process of Technology Introduction: From Proof of Concept to Proof of Use
Conference: WG8.6 Working Conference on Diffusion and Adoption of Information Technology (IFIP)
Place, date: Oslo, Norway, 1995

61. Authors: Natalia Juristo, Edmundo Tovar
Title: Presence of Software Engineering in Spanish University CS Curricula
Conference: Software Engineering in Higher Education (SEHE)
Place, date: Alicante, Spain, 1995

62. Authors: Asunción Gómez, Natalia Juristo
Title: Donation: A New Techniques for Transfering Properties in Frames
Conference: International Conference on AI and Expert Systems Applications (ICAIESA)
Place, date: San Francisco, USA, 1995

63. Authors: Natalia Juristo
Title: Application of Testing Techniques in Conventional Software to Knowledge-based Software
Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
Place, date: San Francisco, USA, 1993

64. Authors: Asunción Gómez, Natalia Juristo
Title: Towards a Consensus on the English-Spanish Translation of Knowledge Engineering Terminology
Conference: International Congress on Terminology and Knowledge Engineering (ICTKE)
Place, date: Köln, Germany, 1993

65. Authors: Natalia Juristo
Title: Structural Analysis: A Method for Knowledge Extraction
Conference: International Conference on AI and Expert Systems Applications (ICAIESA)
Place, date: Paris, France, 1993

66. Authors: Natalia Juristo, Juan Pazos
Title: From Knowledge and Software Engineering to a Knowledge Industry
Conference: WG8.6 Working Conference on Diffusion and Adoption of Information Technology (IFIP)
Place, date: Madrid, Spain, 1992

67. Authors: Natalia Juristo, Juan Pazos
Title: Situation of Expert Systems in Spain
Conference: World Congress on Expert Systems (WCES)
Place, date: Orlando, USA, 1991

68. Authors: Natalia Juristo, Juan Pazos
Title: The Knowledge Engineer in the Knowledge Industry
Conference: Congress in Artificial Intelligence (CAI)
Place, date: Avignon, France, 1991

National And Latin American Conferences
Number of entries: 3

1. Authors: Natalia Juristo, Sira Vegas, Martín Solari, Silvia Abrahao, Isabel Ramos
Title: Estudio de la Efectividad de Tres Técnicas de Evaluación de Código: Resultados de una Serie de Experimentos
Conference: Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
Place, date: A Coruña (España), 2011

2. Authors: Sira Vegas, Natalia Juristo, Victor R. Basili
Title: Maturing Software Engineering Knowledge through Classifications: A Case on Unit Testing Techniques
Conference: Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
Place, date: Valencia (España), 2010

3. Authors: Oscar Dieste, Natalia Juristo, Ana M. Moreno, Alan Davis, Ann Hickey
Title: Producción Científica en Ingeniería de Requisitos en España: Un Análisis en el Contexto Europeo
Conference: Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
Place, date: Granada, Spain, 2005

Posters

Number of entries: 2

1. Authors: Simone Romano, Giuseppe Scanniello, Davide Fucci, Natalia Juristo, Burak Turhan
Title: The effect of Noise on Requirements Comprehension
Conference: International Conference on Software Engineering Companion (ICSE-C)
Place, date: Gothenburg (Sweden), 2018

2. Authors: Sira Vegas, Patricia Riofrio, Natalia Juristo
Title: Does Subject Type Influence Results in Software Engineering Experiments?
Conference: International Conference on Software Engineering Companion (ICSE-C)
Place, date: Buenos Aires (Argentina), 2017

Keynotes, Seminars and Tutorials

Keynotes

Number of entries: 13

1. Conference: International Conference on the Quality of Information and Communications Technology (QUATIC)
Title: Experiments in SE: Promises & Perils
Place, date: Coimbra (Portugal), 2018

2. Conference: Ibero-American Conference on Software Engineering (CIbSE)
Title: Uso y Mal Uso del Término Experimento en Investigación sobre Repositorios Software
Place, date: Buenos Aires (Argentina), 2017

3. Conference: International Conference on Predictive Models and Data Analytics in Software Engineering (PROMISE)
Title: Do you mean by experiment the same I do?
Place, date: Ciudad Real (Spain), 2016

4. Conference: International Workshop on Conducting Empirical Studies in Industry (CESI)
Title: Experiences conducting experiments in industry: The ESEIL FiDiPro project
Place, date: Austin (USA), 2016

5. Conference: International Conference on Software Engineering (ICSE)
Title: Basics on Design and Analysis of SE Experiments: Widespread Shortcomings
Place, date: Hyderabad (India), 2014

6. Conference: International Conference on Software Engineering (ICSE)
Title: Towards Understanding Replication of Software Engineering Experiments
Place, date: Baltimore (USA), 2013

7. Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
Title: Towards Understanding Replication of Software Engineering Experiments
Place, date: Baltimore (USA), 2013

8. Conference: European Computer Science Summit (ECSS)
Title: The Importance Experiments and Empirical Aspects in Computer Science
Place, date: Barcelona (Madrid), 2012

9. Conference: Evaluation and Assesment on Software Engineering Conference (EASE)
Title: How Science can Support Software Engineering
Place, date: Keele (UK), 2010

10. Conference: Experimental Software Engineering Latin American Workshop (ESELAW)
Title: Gaining Evidences in SE: Enabling Collaborative Empirical Research
Place, date: Brasilia (Brazil), 2004

11. Conference: Conference on Software Engineering Education and Training (CSEET)
Title: Undergraduate software engineering education options: Indepandent Programs, Specializations or Subjects
Place, date: Madrid (Spain), 2003

12. Conference: Jornadas sobre Enseñanzas Universitarias de Informática (JENIU)
Title: La Enseñanza de la Ingeniería del Software en las Carreras de Informática

Place, date: Sitges (Spain), 1995

13. Conference: Argentine Symposium on Artificial Intelligence (ASAI)
Title:
Place, date: Buenos Aires (Argentina), 1993

Seminars

Number of entries: 14

1. Event: Experiments in the Finnish Software Industry
Title: Experiments in the Finnish Software Industry
Place, date: Oulu (Finland), 2015

2. Event: Testing Conference for Testers, other Developers and Test/Project Managers
Title: Why Different Testers Applying the Same Testing Techniques Get Different Results
Place, date: Otaniemi, Espoo (Finland), 2013

3. Event: Seminar at University of Oulu
Title: Experimental SE
Place, date: Oulu (Finland), 2012

4. Event: SWELL -- Swedish Research School in Software Verification and Validation
Title: Tester Contribution to Testing Effectiveness -- An Empirical Research
Place, date: Västerås (Sweden), 2011

5. Event: Seminar at University ORT Uruguay
Title: El papel del método científico en el desarrollo del software
Place, date: Montevideo (Uruguay), 2011

6. Event: Seminar at University ORT Uruguay
Title: Experimentación en Ingeniería de Software
Place, date: Montevideo (Uruguay), 2011

7. Event: Seminar at University of Bari
Title: Aggregation and Replication of Software Engineering Experiments
Place, date: Bari (Italy), 2011

8. Event: Lecture at LASER Summer School Empirical Software Engineering
Title: Replication of Software Engineering Experiments
Place, date: Elba Island (Italy), 2010

9. Event: Seminar at Universidad de Castilla-La Mancha
Title: How Science can Support Software Development
Place, date: Ciudad Real(Spain), 2009

10. Event: Seminar at Blekinge Institute of Technology (BTH)
Title: How Science can Support Software Development
Place, date: Ronneby (Sweeden), 2009

11. Event: Lecture at School on Software Engineering (SoSE)
Title: Replication of Software Engineering Experiments
Place, date: Saariselka (Finland), 2009

12. Event: 6th International Advanced School on Empirical Software Engineering (IASESE)
Title: Replication and Aggregation of Experiments in Software Engineering

Place, date: Kaiserslautern (Germany), 2008

13. Event: Seminar at Tampere University of Technology
Title: Usability Requirements Patterns and the Impact of Usability on Software Design
Place, date: Tampere (Finland), 2007

14. Event: Lecture at 4th international School on Software Engineering
Title: Usability Implications on Software Requirements and Design
Place, date: Salerno (Italy), 2007

Tutorials

Number of entries: 11

1. Conference: International Conference on Software Engineering (ICSE)
Title: Analyzing Software Engineering Experiments: Everything You Always Wanted to Know but Were Afraid to Ask
Place, date: Austin (USA), 2016

2. Conference: European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering
Title: Challenges of Conducting Software Engineering Experiments: Everything You Always Wanted to Know but Were Afraid to Ask
Place, date: Bergamo (Italy), 2015

3. Conference: International Advanced School of Empirical Software Engineering
Title: Replication and Aggregation of Software Engineering Experiments
Place, date: Kaiserslautern (Germany), 2008

4. Conference: International Conference on Software Engineering
Title: How to Integrate Usability in the Software Development Process
Place, date: Shangai (China), 2006

5. Conference: International Conference on HCI
Title: Avoiding "We can't get that!": Software Architecture and Usability
Place, date: Viena (Austria), 2004

6. Conference: International Conference on Software Engineering
Title: Usability supporting Architectural Patterns
Place, date: Edimburgo (UK), 2004

7. Conference: International Conference on Software Engineering
Title: Designing Software Architecting for Usability
Place, date: Portland (EE.UU), 2003

8. Conference: International Conference on Software Engineering and Knowledge Engineering
Title: Statistical Design and Analysis for Software Engineering Experimentation
Place, date: Kaiserslautem (Germany), 1999

9. Conference: World Congress on Expert Systems
Title: Techniques for Knowledge Acquisition
Place, date: Mexico DF (Mexico), 1998

10. Conference: International Workshop on Enterprise Knowledge Development
Title: Knowledge Acquisition
Place, date: Bilbao (Spain), 1994

11. Conference: Symposium of IAKE
Title: Evaluation of Knowledge-Based Systems and Shells
Place, date: Washington (EE.UU.), 1992

Conferences Program Committees

Steering Committee

Number of entries: 5

- **Conference:** International Symposium on Empirical Software Engineering and Measurement (ESEM)
   Date and place
   2008 Kaiserslautern (Germany)
   2007 Madrid (Spain)

- **Conference:** International Symposium on Empirical Software Engineering (ISESE)
   Date and place
   2006 Rio de Janeiro (Brazil)

- **Conference:** International Conference on Software Engineering and Knowledge Engineering (SEKE)
   Date and place
   2010 Redwood City (USA)
   2009 Boston (USA)

Conference Chair

Number of entries: 6

- **Conference:** International Conference on Software Engineering (ICSE)
   Date and place
   2021 Madrid, Spain

- **Conference:** International Symposium on Empirical Software Engineering and Measurement (ESEM)
   Date and place
   2007 Madrid, Spain

- **Conference:** International Conference on Software Engineering and Knowledge Engineering (SEKE)
   Date and place
   2001 Buenos Aires, Argentina

- **Conference:** International Conference on Product Focused Process Improvement (PROFES)
   Date and place
   2012 Madrid (Spain)

- **Conference:** International Conference on Software Engineering, Networking and Paralell/Distributed Systems (SNPD)
   Date and place
   2002 Madrid, Spain

- **Conference:** Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
   Date and place
   2002 Escorial, Spain

Program Chair

Number of entries: 5

- Conference: International Conference on Software Engineering (ICSE)
> **Date and place**
> 2017 Buenos Aires, Argentina

- Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
> **Date and place**
> 2005 Taipei, Taiwan, Republic of China
> 1997 Madrid, Spain

- Conference: International Symposium on Empirical Software Engineering (ISESE)
> **Date and place**
> 2004 Redondo Beach CA, USA

- Conference: International Evaluation and Assessment on Software Engineering Conference (EASE)
> **Date and place**
> 2013 Porto de Galinhas (Brazil)

Program Committee

Number of entries: 88

- Conference: International Conference on Software Engineering (ICSE)
> **Date and place**
> 2018 Gothenburg (Sweden)
> 2016 Austin (USA)
> 2014 Hyderabad (India)
> 2012 Zurich (Switzerland)
> 2006 Shanghai, China

- Conference: International Conference on Requirements Engineering (RE)
> **Date and place**
> 2013 Rio de Janeiro, Brazil
> 2012 Chicago (USA)
> 2011 Trento (Italy)
> 2006 Minnesota, USA

- Conference: International Symposium on Empirical Software Engineering and Measurement (ESEM)
> **Date and place**
> 2013 Baltimore, Maryland (USA)
> 2012 Lund (Sweden)
> 2011 Banff (Canada)
> 2010 Bolzano-Bozen, Italy
> 2009 Lake Buena Vista, Florida, USA
> 2008 Kaiserslautern, Germany

- Conference: International Symposium on Empirical Software Engineering (ISESE)
> **Date and place**
> 2006 Rio de Janeiro, Brazil
> 2005 Noosa Heads, Australia

2004 Redondo Beach CA, USA
2003 Rome, Italy
2002 Nara, Japan

- Conference: International Conference on Software Engineering and Knowledge Engineering (SEKE)
Date and place
2013 Boston (USA)
2012 Redwood City (USA)
2011 Miami (USA)
2010 San Francisco, USA
2009 Boston, USA
2008 San Francisco, USA
2007 Boston, USA
2006 San Francisco, USA
2005 Taipei, Taiwan, Republic of China
2004 Banff, Canada
2003 San Francisco, USA
2002 Ischia, Italy
2001 Miami Beach (USA)
2001 Buenos Aires, Argentina
2000 Chicago, USA
1999 Kaiserslautern, Germany
1998 San Francisco, USA
1997 Madrid, Spain
1996 Lake Tahoe, Nevada, USA
1995 Rockville, Maryland, USA
1994 Jurmala, Latvia
1993 San Francisco, USA

- Conference: International Conference on Product Focused Process Improvement (PROFES)
Date and place
2011 Torre Canne (Italy)
2010 Limerick, Irland
2009 Oulu, Finland
2008 Rome, Italy
2007 Riga, Latvia
2006 Amsterdam, netherlands
2005 Oulu, Finland

- Conference: International Working Conference Requirements Engineering: Foundation for Software Quality (REFSQ)
Date and place
2013 Essen (Germany)
2012 Essen (Germany)
2011 Essen, Germany
2010 Essen, Germany
2009 Amsterdam, Netherlands
2008 Montpellier, France
2007 Trondheim, Norway
2006 Luxembourg

- Conference: Conference on Software Engineering Education and Training (CSEET)
Date and place
2003 Madrid, Spain

- Conference: Evaluation and Assessment on Software Engineering Conference (EASE)
    Date and place
    2012 Ciudad Real (Spain)
    2011 Durham (UK)

- Conference: International Conference of Intelligent Information Systems (ICIIS)
    Date and place
    1997

- Conference: International Conference of Intelligent Information Systems (ICIIS)
    Date and place
    1997

- Conference: International Conference on Advanced Information Systems Engineering (CAiSE)
    Date and place
    2013 Valencia (Spain)

- Conference: ICSE International Workshop on Conducting Empirical Studies in Industry (CESI)
    Date and place
    2013 San Francisco (USA)

- Conference: Conferencia Latinoamericana de Informática (CLEI)
    Date and place
    2011 Quito (Ecuador)

- Conference: European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC-FSE)
    Date and place
    2017 Paberborn (Germany)
    2011 Szeged (Hungary)

- Conference: International Symposium on the Foundations of Software Engineering (FSE)
    Date and place
    2018 Lake Buena Vista, Florida (USA)
    2013 Saint Petersburg (Russia)
    2012 North Carolina (USA)

- Conference: International Conference on Software Testing, Verification and Validation (ICST)
    Date and place
    2013 Luxembourg

- Conference: IEEE Computing Professionals (IEEECP)
    Date and place
    2010 Montreal - Quebec, Canada

- Conference: Jornadas de Ingeniería del Software y Bases de Datos (JISBD)
    Date and place
    2013 Madrid, Spain
    2011 A Coruña, Spain
    2010 Valencia, Spain
    2009 San Sebastián, Spain
    2008 Gijón, Spain
    2007 Zaragoza, Spain

2006 Barcelona, Spain
2005 Granada, Spain
2004 Málaga, Spain
2003 Alicante, Spain
2002 El Escorial (Madrid), Spain
2001 Almagro, Spain
2000 Valladolid, Spain
1999 Cáceres, Spain

- **Conference:** New Ideas and Emerging Results (NIER)
    Date and place
    2013 San Francisco (USA)

- **Conference:** International Conference on Research Challenges in Information Science (RCIS)
    Date and place
    2007 Ouarzazae, Morocco

- **Conference:** International Workshop on Replication in Empirical Software Engineering Research at ICSE (RESER)
    Date and place
    2011 Hamburg (Germany)

<u>Local Organizing Committee</u>

Number of entries: 5

- **Conference:** International Conference on Software Engineering (ICSE)
    Date and place
    2019 Montréal (Canada)
    2015 Firenze (Italy)

- **Conference:** Workshop on Bridging the Gaps Between Software Engineering and Human-Computer Interaction at ICSE (BSE&ICSE)
    Date and place
    2003 Portland (USA)

- **Conference:** International Workshop on Replication in Empirical Software Engineering Research (RESER)
    Date and place
    2011 Banff (Canada)
    2010 Cape Town (South Africa)

Other Merits

Number of entries: 6

1. Awards and Recognitions:
• Best paper award SEAA 2020 (EUROMICRO Conference on Software Engineering and Advanced Applications) (August 26 - 28, 2018. Coimbra, Portugal).
• Best full paper award ESEM 2018 (Empirical SE and Measurement Conference) (Octuber 11 - 12, 2018. Oulu, Finland).
• Best full paper award ESEM 2016 (Empirical SE and Measurement Conference) (September 07-09, 2016. Ciudad Real, Spain).
• Best full paper award ESEM 2009 (Empirical SE and Measurement Conference) (October 14 -16, 2009. Orlando, EE.UU).
• Doctor Honoris Causa by Blekinge Institute of Technology (Sweden). October 9, 2009.
• Member of the IEEE Computer Society Golden Core (Special distinction of approximately 500 persons who served society in significant ways throughout its 50 years). March 27, 2007.
• Outstanding Contribution Award. IEEE Computer Society. (For your leadership and service in starting the SE Online Portal). January 30, 2006.
• Young Researches Award. Universidad Politécnica de Madrid. January 2000.
• PhD Thesis extraordinary Award. Informatics Faculty. Universidad Politécnica de Madrid. 1992.

2. Member of Project Evaluation Committees of the Spanish National Research Council:
• Selection of presented projects to call 2010. May 31, 2010.
• Selection of presented projects to call 2009. May 27, 2009.
• Selection of presented projects to call 2006. April 11, 2006.
• Selection of presented projects to call 2003. April 16, 2003.

3. Academics Evaluations:
• Evaluator for a job of Full Professor in Software Engineering. University of Oulu (Finland). November 2012.
• Evaluator for a job of "Biträdande Professor" in Software Engineering. Chalmers University of Technology (Sweeden). August 2012.
• Technical Education Committee for the evaluation of research activity of university teachers. National Assessment Committee of Research Activity (in Spanish, Comisión Nacional Evaluadora de la Actividad Investigadora, CNEAI). 2012.
• Technical Education Committee for the evaluation of university teachers. National Agency for Quality Assessment and Accreditation (in Spanish, Agencia Nacional de Evaluación de la Calidad y Acreditación, ANECA). 2012.
• Technical Education Committee for the evaluation of university teachers. Agency for Quality, Accreditation and Planning of the Universities of Madrid (in Spanish, Agencia de Calidad, Acreditación y Prospectiva de las Universidades de Madrid, ACAP). Autonomous Community of Madrid. October 14-17, 2008.
• Selection Committee for a job of Full Professor in Software Engineering (ref 2008/93). Chalmers University (Sweden). September 2008.
• Evaluator for a job of Full Professor in Software Engineering. Technical School of the Lund University (Sweden). April 2007.
• Selection Committee of the Programs Ramón y Cajal y Juan de la Cierva. May 2005.

4. Management of Academic Programs:
Coordinator of Erasmus Mundus European Master in Software Engineering. Since 2007 to 2013.
Participants:
• Technical University of Madrid (Partner Coordinador)
• Blekinge Institute of Technology. Sweden
• University of Kaiserslautern. Germany

• Bozen Free University. Italy
Director of Master in Software Engineering. Technical University of Madrid. 1992-2002

5. Lead Researcher of the Software Engineering Research Group recognized by the UPM since 2006

6. Member of courts of special relevance:
• PhD committee of Jonathan Krein: "Replication and Knowledge Production in Empirical Software Engineering Research". Brigham Young University. March 2014.
• PhD Committee (Role: Opponent) of Nina Elisabeth Holt: "Empirical Evaluations of the Cost-Effectiveness of State-Base Testing: Industrial Case Studies and Extensible Framework". University of Oslo. September 2012.
• PhD Committee (Role: Opponent) of Thomas Thelin: "Empirical Evaluations Of Usage-Based Reading And Fault Content Estimation For Software Inspections". Lund University. November 2002.
• Opposition Court of the selection tests for admission to the Senior Corps of Systems and Information Technology of the General State Administration. Calls 2000 and 2001.