

c v n CURRÍCULUM VÍTAE NORMALIZADO



Manuel Angel Serrano Martin

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Manuel Ángel Serrano Martín es Doctor en Informática por la Universidad de Castilla - La Mancha desde el año 2004 y Profesor Titular de Universidad en la Escuela Superior de Informática de Ciudad Real (Departamento de Tecnologías y Sistemas de Información) desde el 5 de diciembre de 2009. Ha sido Secretario del Departamento de Tecnologías y Sistemas de Información desde mayo de 2014 hasta abril de 2021 y actualmente es Coordinador de Practicas en Empresa del Máster en Ingeniería Informática desde el año 2013.

En cuanto a su actividad investigadora, sus inicios se encuadran en el seno del grupo Alarcos en el año 2000 en el que empezó a investigar acerca de la calidad de los almacenes de datos. Sus líneas de investigación principales son la calidad de los datos, la calidad y la medición del software, la inteligencia de negocio, incluyendo los almacenes de datos, el Big Data y el IoT y más recientemente está trabajando en líneas relacionadas con la ciberseguridad y la computación cuántica.

Su producción científica ha sido considerable, habiendo publicado más de medio centenar de contribuciones en revistas y conferencias, habiendo obtenido el premio al mejor artículo científico en una conferencia nacional. Tiene reconocidos 3 sexenios de investigación. Ha dirigido un proyecto regional coordinado entre la UCLM y la Universidad de Alicante, y otro nacional, actuando como IP coordinador del proyecto (QUASIMODO: Quality and Security in Model Driven Data Warehouse Development - PAC08-0157-0668) y ha participado en más de 20 proyectos de investigación nacionales y regionales así como en 2 proyectos internacionales (SDGear, Proyecto ITEA y DQIoT, Proyecto Eureka). Ha tenido una activa participación en contratos de transferencia con empresas entre los que destacan los proyectos ORIGIN y LPS-BIGGER, realizados con INDRA.

En cuanto a su trayectoria profesional ha participado en las spin-offs del grupo Alarcos AQCLabs y DQTeam. Tiene la certificación profesional de SCRUM Manager y la certificación de inglés del C1 en el marco común europeo de referencia tanto en TOEIC como el CAE de Cambridge. Trabajó como docente en Enseñanza Secundaria y como Programador y Diseñador Web en la empresa CIM Internet.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

3 sexenios de investigación (Fechas de Último Reconocimiento 2022)

Tesis dirigidas en los últimos 10 años: 3

Publicaciones totales en primer cuartil (Q1): 10

Publicaciones en segundo cuartil (Q2): 6

Publicaciones totales en JCR: 24

Publicaciones en Congresos Categorías 1 y 2 según GII-GRIN-SCIE: 4

Web of Knowledge:

Número total de citas: 544

Promedio de citas/año últimos 5 años: 24,73

Índice h: 13

Google Scholar

Número total de citas: 2227

Índice h: 24



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Manuel Angel Serrano Martin

Surname(s): **Serrano Martin**
 Name: **Manuel Angel**
 DNI: **05655675-K**
 ORCID: **0000-0003-0962-5659**
 ResearcherID: **N-8266-2013**
 Date of birth: **[REDACTED]**
 Gender: **[REDACTED]**
 Nationality: **[REDACTED]**
 Country of birth: **[REDACTED]**
 Aut. region/reg. of birth: **[REDACTED]**
 Contact province: **[REDACTED]**
 City of birth: **[REDACTED]**
 Contact address: **Paseo de la Universidad, 4**
 Rest of contact address: **E.S. Informatica - UCLM**
 Postcode: **13005**
 Contact country: **Spain**
 Contact aut. region/reg.: **Castile-La Mancha**
 Contact city: **Ciudad Real**
 Land line phone: **((34)) 926052515**
 Email: **Manuel.Serrano@uclm.es**
 Mobile phone: **[REDACTED]**
 Personal web page: **http://alarcos.esi.uclm.es/per/mserrano/**

Current professional situation

Employing entity: Universidad de Castilla-La Mancha
Department: Tecnologías y Sistemas de Información, Escuela Superior de Informática
Professional category: Profesor Titular de la Universidad
City employing entity: Castile-La Mancha, Spain
Phone: (34) 926 05 25 15 **Email:** Manuel.Serrano@uclm.es
Start date: 05/12/2009
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 120317 - Informatics; 330414 - Digital computers
Secondary (UNESCO code): 120318 - Information systems; design and componente; 330400 - Computer technology
Tertiary (UNESCO code): 120311 - Computer software
Performed tasks: Secretario del Departamento Tecnologías y Sistemas de la Información

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Castilla - La Mancha	Secretario del Departamento de Tecnologías y Sistemas de Información	01/05/2014
2	Universidad de Castilla-La Mancha	Profesor Contratado Doctor	30/04/2008



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CURRÍCULUM VITAE NORMALIZADO

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	Employing entity	Professional category	Start date
3	Universidad de Castilla-La Mancha	Profesor Asociado a Tiempo Completo	01/10/2001
4	Universidad de Castilla-La Mancha	Ayudante de Escuela Universitaria	28/10/2000
5	Colegio Nuestra Señora de la Merced (Miguelturra)	Profesor ESO	05/09/2000
6	CIM Internet S.L.	Desarrollador Web	27/03/1998
7	CIM Internet S.L.	Desarrollador Web	11/03/1998

- 1** **Employing entity:** Universidad de Castilla - La Mancha **Type of entity:** University
Department: Departamento de Tecnologías y Sistemas de Información, Escuela Superior de Informática
City employing entity: Ciudad Real, Castile-La Mancha, Spain
Professional category: Secretario del Departamento de Tecnologías y Sistemas de Información **Leadership and management (Y/N):** Yes
Start-End date: 01/05/2014 - 30/04/2021 **Duration:** 7 years
Dedication regime: Full time
Area of leadership and/or management activity: University
- 2** **Employing entity:** Universidad de Castilla-La Mancha **Type of entity:** University
Professional category: Profesor Contratado Doctor
Start-End date: 30/04/2008 - 04/12/2009
- 3** **Employing entity:** Universidad de Castilla-La Mancha **Type of entity:** University
Professional category: Profesor Asociado a Tiempo Completo
Start-End date: 01/10/2001 - 29/04/2008
- 4** **Employing entity:** Universidad de Castilla-La Mancha **Type of entity:** University
Professional category: Ayudante de Escuela Universitaria
Start-End date: 28/10/2000 - 30/09/2001
- 5** **Employing entity:** Colegio Nuestra Señora de la Merced (Miguelturra)
Professional category: Profesor ESO
Start-End date: 05/09/2000 - 26/10/2000
- 6** **Employing entity:** CIM Internet S.L. **Type of entity:** Business
Professional category: Desarrollador Web
Start-End date: 27/03/1998 - 30/09/1998
- 7** **Employing entity:** CIM Internet S.L. **Type of entity:** Business
Professional category: Desarrollador Web
Start-End date: 11/03/1998 - 24/03/1998



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 Name of qualification:** Ingeniero Informático
Degree awarding entity: Universidad de Castilla-La Mancha **Type of entity:** University
Date of qualification: 25/09/2000
- 2 University degree:** Middle degree
Name of qualification: Ingeniero Técnico en Informática de Sistemas
Degree awarding entity: Universidad de Castilla - La Mancha **Type of entity:** University
Date of qualification: 28/07/1998

Doctorates

- 1 Doctorate programme:** Doctor en Informática
Degree awarding entity: Universidad de Castilla-La Mancha **Type of entity:** University
Date of degree: 03/11/2004
- 2 Doctorate programme:** Diploma de Estudios Avanzados
Degree awarding entity: Universidad de Castilla-La Mancha **Type of entity:** University
Date of degree: 04/07/2002

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Professional Scrum Master I
Awarding entity: Scrum.org
End date: 14/01/2020 **Duration in hours:** 20 hours
- 2 Training title:** GESTION DE PROYECTOS CON SCRUM MANAGER
Awarding entity: 233 Grados de TI **Type of entity:** Business
End date: 11/07/2017 **Duration in hours:** 16 hours
- 3 Training title:** COMPETISOFT - Mejora de Procesos para fomentar la competitividad de la Pequeña y Mediana Industria del Software de Iberoamérica
Awarding entity: Universidad de Castilla-La Mancha **Type of entity:** University
End date: 02/03/2006



- 4 **Training title:** Curso Sobre Mantenimiento del Software
Awarding entity: Universidad de Castilla-La Mancha **Type of entity:** University
End date: 2000 **Duration in hours:** 20 hours

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1 **Title of course/seminar:** Mindfulness para reducir el estrés y gestionar las emociones
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 20 hours
Start-End date: 02/11/2022 - 12/01/2023
- 2 **Title of course/seminar:** CIENCIA DE DATOS Y APRENDIZAJE AUTOMÁTICO EN PYTHON
Organising entity: FUNDACION GENERAL DE LA UNIVERSIDAD DE MALAGA
Duration in hours: 25 hours
Start-End date: 17/01/2022 - 10/06/2022
- 3 **Title of course/seminar:** Tratamiento de Datos con Excel
Organising entity: Universidad de Cantabria **Type of entity:** University
Duration in hours: 37 hours
Start-End date: 02/05/2022 - 03/06/2022
- 4 **Title of course/seminar:** Programación Científica con Python
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 20 hours
Start-End date: 04/04/2022 - 30/05/2022
- 5 **Title of course/seminar:** Zotero: software libre para la gestión bibliográfica, de grupos de investigación y la tutorización de estudiantes
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 20 hours
Start-End date: 14/03/2022 - 06/05/2022
- 6 **Title of course/seminar:** Taller de estrategia en Redes Sociales y Publicidad Digital
Organising entity: Comunica tu flow
Duration in hours: 5 hours
Start-End date: 12/06/2017 - 12/06/2017
- 7 **Title of course/seminar:** Presentaciones Cloud con Prezi
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 20 hours
Start-End date: 02/11/2015 - 25/01/2016
- 8 **Title of course/seminar:** Jornada de Innovación Docente
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 8 hours
Start-End date: 11/06/2015 - 11/06/2015



- 9 Title of course/seminar:** Preparación de material audiovisual de calidad para docencia on-line
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 16/01/2015 - 23/01/2015
- 10 Title of course/seminar:** Campus Virtual II
Goals of the course/seminar: Aprender aspectos avanzados de la plataforma de campus virtual de la UCLM
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 5 hours
Start-End date: 29/03/2007 - 29/03/2007
- 11 Title of course/seminar:** Campus Virtual I
Goals of the course/seminar: Aprender a usar la plataforma de campus virtual de la UCLM
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 5 hours
Start-End date: 15/03/2007 - 15/03/2007
- 12 Title of course/seminar:** Curso sobre técnicas ECTS
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
Start-End date: 13/09/2006 - 13/09/2006
- 13 Title of course/seminar:** Encuentro Intracampus de Innovación Educativa
Goals of the course/seminar: Aprender sobre la implantación de ECTS
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
Duration in hours: 5 hours
Start-End date: 31/01/2006 - 31/01/2006
- 14 Title of course/seminar:** Jornada de Experiencia ECTS
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
Duration in hours: 2 hours
Start-End date: 24/05/2005 - 24/05/2005
- 15 Title of course/seminar:** Técnicas de Comunicación dentro y fuera del aula
Goals of the course/seminar: Conocer técnicas de comunicación y de resolución de conflictos en el entorno académico y docente
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
Duration in hours: 15 hours
Start-End date: 22/02/2002 - 31/03/2002
- 16 Title of course/seminar:** Curso de Verano de Informática Educativa
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Start-End date: 26/06/1995 - 27/06/1995



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A1	A1	A1	A1	A1
French	B1	B2	A1	A1	A1
Italian	B2	B2	B2	B1	B1
English	C1	C1	C1	C1	C1

Teaching experience

General teaching experience

- Name of the course:** Fundamentos de Programación II
University degree: Graduado o Graduada en Ingeniería Informática
Start date: 2021 **End date:** 2023
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- Name of the course:** Gestión de Procesos y Servicios
University degree: Máster Universitario en Ingeniería Informática
Start date: 2019 **End date:** 2023
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
- Name of the course:** Desarrollo de Sistemas Web
University degree: Graduado o Graduada en Ingeniería Informática
Course given: 4
Start date: 2014 **End date:** 2023
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- Name of the course:** Procesos de Ingeniería del Software
University degree: Graduado o Graduada en Ingeniería Informática
Course given: 4
Start date: 2013 **End date:** 2021
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- Name of the course:** Gestión de Sistemas de Información
University degree: Graduado o Graduada en Ingeniería Informática
Start date: 2011 **End date:** 2015
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- Name of the course:** Bases de Datos
University degree: Ingeniería en Informática
Course given: 3



Start date: 2012 **End date:** 2013
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

7 Name of the course: Calidad y Medición de Sistemas de Información
University degree: Doctorado
Start date: 2004 **End date:** 2013
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

8 Name of the course: Almacenamiento y Recuperación de la Información
University degree: Ingeniería en Informática
Course given: 5
Start date: 2001 **End date:** 2013
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

9 Name of the course: Ampliación de Programación
University degree: Ingeniería en Informática
Course given: 2
Start date: 2001 **End date:** 2011
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

10 Name of the course: Bases de Datos
University degree: Ingeniería en Informática
Course given: 3
Start date: 2002 **End date:** 2009
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

11 Name of the course: Ingeniería del Software II
University degree: Ingeniería en Informática
Course given: 5
Start date: 2006 **End date:** 2007
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

12 Name of the course: Metodología y Tecnología de la Programación
University degree: Ingeniería en Informática
Course given: 1
Start date: 2001 **End date:** 2002
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

13 Name of the course: Arquitectura e Ingeniería de Computadores
University degree: Ingeniería en Informática
Course given: 2
Start date: 2000 **End date:** 2001
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática



- 14 Name of the course:** Estructura de Datos
University degree: Ingeniería en Informática
Course given: 1
Start date: 2000 **End date:** 2001
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- 15 Name of the course:** Organización de Computadores II
University degree: Ingeniería en Informática
Course given: 2
Start date: 2000 **End date:** 2001
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática
- 16 Name of the course:** Tecnología de Computadores
University degree: Ingeniería en Informática
Course given: 1
Start date: 2000 **End date:** 2001
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Faculty, institute or centre: Escuela Superior de Informática

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Methodology for Building Secure Big Data Ecosystems
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Julio Moreno García-Nieto
Date of reading: 27/07/2020
- 2 Project title:** I25K: Environment for the Evaluation and Certification of Data Products Quality
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Jorge Merino García
Date of reading: 30/05/2017
- 3 Project title:** Adaptación I8K para soporte a Big Data
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Bibiano García Rivas
Date of reading: 16/07/2015
- 4 Project title:** Aplicación geosocial - GeoMe
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Javier García Ceca
Date of reading: 16/07/2015
- 5 Project title:** Patrones de Diseño en Big Data
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Iván Jiménez Utiel
Date of reading: 16/07/2015



- 6 Project title:** An Application of Peer Group Analysis in Online Banking Fraud detection
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Javier Nieto León
Date of reading: 10/2014
- 7 Project title:** Repositorio Web de Aplicaciones Docentes
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Irene Mora López
Date of reading: 09/2014
- 8 Project title:** ECoDQ: Entorno de soporte al Control de Calidad de Datos
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Jorge Merino García
Date of reading: 26/06/2014
- 9 Project title:** Rails Eshop Generator And Manager
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Mario Barraión Silva
Date of reading: 06/2014
- 10 Project title:** Sistema para la Gestión de Proyectos basados en SCRUM
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Jesús Cárdenas González
Date of reading: 06/2014
- 11 Project title:** Sistema de Recuperación de Información basado en Documentos XML
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Rocío Coral López García
Date of reading: 14/09/2012
- 12 Project title:** Herramienta extensible para la conversión de documentos de texto
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: David Velasco Martín
Date of reading: 07/2012
- 13 Project title:** Herramienta de ayuda para Refactorización de bases de datos
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Agustín Crespo Valencia
Date of reading: 16/09/2011
- 14 Project title:** Características de Calidad de Datos de los Almacenes de Datos
Type of project: Work leading to an ASD
Co-director of thesis: Coral Calero Muñoz
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Arnulfo Hernández González
Date of reading: 2010
- 15 Project title:** Sistema de Supervisión y Control de Producción de una Mina
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Juan Ramón Ruiz Pachón
Date of reading: 2009



- 16 Project title:** Herramienta de Visualización de Soporte a la Refactorización de Almacenes de Datos
Type of project: End of course project
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Student: Ramón Coloma Mozos
Obtained qualification: Sobresaliente
Date of reading: 09/2008

Student tutorials

- 1 Name of the programme:** Mobility programme
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
- 2 Name of the programme:** Tutorías Personalizadas
Entity: Universidad de Castilla-La Mancha **Type of entity:** University

Courses and seminars given

Type of event: Seminar
Name of the event: Presentación en Internet
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Hours of teaching: 20
Teaching date: 2002

Participation in innovative teaching projects

- 1 Project title:** SmartFeedBack: Smart Audience Response System for Classroom Feedback
Type of participation: Principal investigator
Time of working relationship: For an undetermined time
Funding entity: Universidad de Castilla-La Mancha **Type of entity:** University
Start-End date: 30/10/2019 - 15/03/2021 **Duration:** 1 year - 5 months - 15 days
- 2 Project title:** Sistema de Apoyo a la dirección de centros universitarios para la evaluación temprana del rendimiento académico y riesgo de abandono
Type of participation: Principal investigator
Time of working relationship: For an undetermined time
Funding entity: Universidad de Castilla-La Mancha **Type of entity:** University
Start-End date: 30/11/2017 - 15/03/2019 **Duration:** 1 year - 3 months - 15 days
- 3 Project title:** Aseguramiento y Mejora de la calidad y Acreditación Internacional del Grado Bilingüe y del Máster Semipresencial de Ingeniería Informática
Type of participation: Others
Name of the main researcher: David García Rosado
Number of participants: 13
Funding entity: Universidad de Castilla La Macha
Start-End date: 01/10/2013 - 30/09/2014



- 4 Project title:** Formación de grupos de trabajo para la realización de proyectos en el contexto del nuevo grado adaptado al EEES: Aplicación a asignaturas relacionadas con las bases de datos.
Type of participation: Others
Name of the main researcher: Marcela Genero y José Antonio Cruz
Number of participants: 8
Amount awarded: 490 €
Funding entity: Universidad de Castilla La Mancha
Start-End date: 01/11/2010 - 31/10/2011
- 5 Project title:** Implantación y Orquestación de los contenidos de Seguridad en el Grado en Ingeniería Informática que favorezca el acercamiento a las principales certificaciones profesionales de Seguridad y Auditoría
Type of participation: Others
Dedication regime: Full time
Name of the main researcher: David G. Rosado
Number of participants: 6
Amount awarded: 1.250 €
Funding entity: Universidad de Castilla La Mancha
Start-End date: 01/11/2010 - 31/10/2011
- 6 Project title:** profESlionalízate: Fortalecimiento de las competencias profesionales
Type of participation: Team member
Time of working relationship: For an undetermined time
Funding entity: Universidad de Castilla - La Mancha **Type of entity:** University
Start date: 12/05/2015

Participation in conferences with talks focused on teacher training

- 1 Name of the event:** XXII Jornadas de Enseñanza Universitaria de la Informática (JENUI 2016)
Type of event: Conference
City of event: Almería, Andalusia, Spain
Date of presentation: 06/07/2016
Lecciones aprendidas tras varias convocatorias de un programa para el Fortalecimiento y Mejora de las competencias de empleabilidad de los graduados en Informática.
- 2 Name of the event:** XXI Jornadas de Enseñanza Universitaria de la Informática (JENUI 2015)
Type of event: Conference
City of event: Andorra La vella, Andorra
Date of presentation: 08/07/2015
Organising entity: Open University La Salle **Type of entity:** University
Proyecto profESlionalízate: Mejorando la empleabilidad a través de la mejora de las competencias profesionales..
- 3 Name of the event:** X Jornadas de Enseñanza Universitaria de la Informática (JENUI 2004)
Type of event: Conference
City of event: Alicante, España,
Dar a conocer las experiencias obtenidas a través de la enseñanza y la realización de experimentación en asignaturas relacionadas con la Ingeniería del Software, con el objetivo de fomentar la necesidad de la "evidencia" para contribuir a la madurez de la Ingeniería del Software. - Profesores de universidades de carreras relacionadas con la informática..



- 4 Name of the event:** Simposio Nacional de Docencia en la Informática, SINDI, 2005 (AENUI) (celebrado dentro del I CONGRESO ESPAÑOL DE INFORMÁTICA (CEDI 2005))
Type of event: Conference
City of event: Granada, España,
 Presentar el trabajo "Experiencias en la relaización de Estudios Emíricos en Cursos de Ingeniería del Software". - Profesores universitarios de carreras relacionadas con la Informática..

Scientific and technological experience

Research and development groups/teams

Name of the group: ALARCOS

Aims of the group: Líneas de Investigación Calidad en Desarrollo y Mantenimiento de Sistemas de Información: Metodologías, Técnicas, Entornos y Métricas para Diferentes Tipos de Tecnologías. Proceso Software, Desarrollo Software, Auditoría.

Name of principal investigator: Mario Gerardo Piattini Velthuis

City of group: Ciudad Real,

Affiliation entity: Universidad de Castilla-La Mancha **Type of entity:** University

Start date: 2000

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Di4SPDS (Inteligencia distribuida para mejorar la seguridad y la privacidad de los sistemas descentralizados y distribuidos)

Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University

Name principal investigator (PI, Co-PI....): Eduardo Fernández-Medina Patón; Antonio Santos-Olmo

Funding entity or bodies:
CHIST-ERA (European Union)

Ministerio de Ciencia e Innovación

Type of entity: Body, others

Type of participation: Team member

Name of the programme: CHIST-ERA

Code according to the funding entity: PCI2023145980-2

Start-End date: 01/01/2024 - 31/12/2026

Total amount: 191.180 €

- 2 Name of the project:** AETHER (A smart data holistic approach for context-aware data analytics)

Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University

City of entity: Castile-La Mancha, Spain

Name principal investigator (PI, Co-PI....): José Antonio Cruz Lemus; Eduard Fernández-Medina Patón

Start-End date: 01/01/2021 - 31/12/2024

Total amount: 220.583 €



- 3 Name of the project:** ALBA: Mejora de la ciberseguridad y su sostenibilidad en beneficio de la sociedad y de las personas
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University
City of entity: Castile-La Mancha, Spain
Name principal investigator (PI, Co-PI....): David García Rosado; Eduardo Fernández-Medina Patón
N° of researchers: 8
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Ministerio
Start-End date: 01/12/2022 - 01/12/2024
Total amount: 210.105 €
- 4 Name of the project:** QSALUD: Farmacogenómica cuántica aplicada al envejecimiento
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University
City of entity: Ciudad Real, Castile-La Mancha, Spain
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
N° of researchers: 6
Funding entity or bodies: Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business
Start-End date: 01/09/2020 - 31/12/2023
Total amount: 195.000 €
- 5 Name of the project:** GENESIS: Security Government of Big Data and Cyber Physics Systems
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University
City of entity: Castile-La Mancha, Spain
Name principal investigator (PI, Co-PI....): David García Rosado; Eduardo Fernández-Medina Patón
N° of researchers: 14
Start-End date: 01/09/2018 - 31/12/2021
Total amount: 154.000 €
- 6 Name of the project:** ECLIPSE: Enhancing Data Quality and Security for Improving Business Processes and Strategic Decisions in Cyber Physical Systems
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University
City of entity: Ciudad Real, Castile-La Mancha, Spain
Name principal investigator (PI, Co-PI....): Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patón
N° of researchers: 9
Funding entity or bodies: Ministerio de Ciencia, Innovación y Universidades **Type of entity:** Ministerio
City funding entity: Spain
Start-End date: 01/01/2019 - 30/06/2021
Total amount: 85.246 €
- 7 Name of the project:** SEQUOIA: Security and Quality in processes with big data and Analytics (TIN2015-63502-C3-1-R)
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University



City of entity: Ciudad Real, Castile-La Mancha, Spain

Name principal investigator (PI, Co-PI....): Marcela Genero Bocco; Eduardo Fernández-Medina Patón

Funding entity or bodies:

Ministerio de Economía y Sostenibilidad

Type of entity: State agency

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2016 - 31/12/2018

Total amount: 133.221 €

- 8 Name of the project:** SDGear (Software Development Governance as a Service)
Entity where project took place: Universidad de Castilla-La Mancha **Type of entity:** University
Name principal investigator (PI, Co-PI....): Aurora Vizcaino Barceló
Nº of researchers: 70
Start-End date: 2014 - 2016
Total amount: 187.447 €
- 9 Name of the project:** GEODAS-BC (GEestiOn para el Desarrollo globAl del Software, mediante ingeniería de negocio y entornos avanzados de colaboración)
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
Nº of researchers: 36
Funding entity or bodies:
Ministerio de Economía y Competitividad (TIN2012-37493-C03-01)
Start-End date: 01/01/2013 - 31/12/2015 **Duration:** 3 years
Participating entity/entities: Universidad de Alicante (subproyecto GEODAS-BI); Universidad de Castilla-La Mancha (coordinadora proyecto GEODAS y subproyecto GEODAS-BC); Universidad de Murcia (subproyecto GEODAS-RE)
Total amount: 308.800 €
- 10 Name of the project:** SISTEMAS: Marco para el Desarrollo Semi-Automático y la Ingeniería Inversa de Sistemas de Información Seguros mediante un Enfoque de Desarrollo Dirigido por Modelos
Name principal investigator (PI, Co-PI....): Eduardo Fernández-Medina Patón
Nº of researchers: 12
Funding entity or bodies:
FEDER y la Consejería de Educación y Ciencia de la Junta de Comunidades de Castilla-La Mancha. (PII2I09-0150-3135)
Start-End date: 01/04/2009 - 31/03/2012
Total amount: 174.025 €
- 11 Name of the project:** EECCOO (Entorno para la Evaluación Continua de la Calidad de artefactOs sOftware)
Name principal investigator (PI, Co-PI....): Marcela Genero Bocco
Nº of researchers: 8
Funding entity or bodies:
Ministerio de Ciencia e Innovación (TRACE) (TRA2009_0074)
Start-End date: 01/03/2010 - 29/02/2012 **Duration:** 2 years
Participating entity/entities: AQC
Total amount: 102.245 €



- 12 Name of the project:** PEGASO/MAGO (Proyecto Coordinado, PEGASO: Procesos para la mejora del desarrollo Global del Software/MAGO: Mejora Avanzada de procesos software Globales)
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
N° of researchers: 50
Funding entity or bodies:
Ministerio de Ciencia e Innovación. Investigación (TIN2009-13718-C02-01)
Start-End date: 2009 - 2012 **Duration:** 3 years
Participating entity/entities: Universidad de Castilla-La Mancha; Universidad de Murcia
Total amount: 724.306 €
- 13 Name of the project:** QUASIMODO: Quality and Security in Model Driven Data Warehouse Development
Name principal investigator (PI, Co-PI....): Manuel Ángel Serrano
N° of researchers: 8
Funding entity or bodies:
FEDER y la Consejería de Educación y Ciencia de la Junta de Comunidades de Castilla-La Mancha
Referencia: PAC08-0157-0668
Start-End date: 01/2008 - 12/2010
Total amount: 144.060 €
- 14 Name of the project:** ESFINGE (Evolución de Software Factories mediante Ingeniería del Software Empírica)
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
N° of researchers: 26
Funding entity or bodies:
Ministerio de Educación y Ciencia (TIN 2006-15175-C05-05)
Start-End date: 12/2006 - 12/2009 **Duration:** 3 years
Participating entity/entities: European Software Institute; Universidad Politécnica de Valencia; Universidad de Cartagena; Universidad de Castilla-La Mancha; Universidad de Murcia
Total amount: 441.408 €
- 15 Name of the project:** INCOME, Indicators for Component Enhancement. Subproyecto de VICTRESS: Gestión de la calidad de aplicaciones software basadas en componentes mediante técnicas de visualización
Name principal investigator (PI, Co-PI....): Coral Calero
N° of researchers: 6
Funding entity or bodies:
Ministerio de Educación y Ciencia (PET2006_0682_01)
Start-End date: 2007 - 2009
Participating entity/entities: Procedimientos-Uno S.L.; Universidad de Castilla-La Mancha; Universidad de Málaga
Total amount: 39,4 €
- 16 Name of the project:** MECENAS (Mejora Basada en Evidencia de la Capacidad EN Actividades de Software)
Name principal investigator (PI, Co-PI....): García Rubio, Félix Óscar
N° of researchers: 14
Funding entity or bodies:
Consejería de Educación y Ciencia **Type of entity:** Body, others
Junta de comunidades de Castilla - La Mancha (PBI-06-0024)
Start-End date: 09/05/2006 - 12/2008 **Duration:** 3 years



Participating entity/entities: Universidad de Castilla-La Mancha
Total amount: 169.000 €

17 Name of the project: COMPETISOFT (Mejora de Procesos para Fomentar la Competitividad de la Pequeña y Mediana Industria del Software de Iberoamérica)

Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis

Nº of researchers: 104

Funding entity or bodies:
CYTED

Start-End date: 01/2006 - 12/2008

Duration: 3 years

Participating entity/entities: Argentina: Univ. Nacional de La Matanza, IRAM, Universidad Nacional del Comahue, Poder Judicial de la Provincia de Neuquén; Brasil: Laboratorio de Proceso de Software, PRO-EPUSP; Chile: Universidad Técnica Federico Santamaría, Universidad Católica del Maule; Colombia: Informática y Sistemas, Universidad del Cauca, PARQUESOFT POPAYAN; Costa Rica: Escuela de Ingeniería en Computación -Sede San Carlos, SIRZEE; Ecuador: Universidad de ESPOL, MV Systems; España: Sistemas Técnicos de Loterías, Enxenio, UCLM; México: Universidad Nacional Autónoma de México, Perú: PUCP, Portugal: Universidad Nova de Lisboa; Uruguay: Inco; Venezuela: Universidad de Los Andes.

Total amount: 120.000 €

18 Name of the project: DIMENSIONS (Diseño y MEDición de Sistemas de InformaciON Seguros)

Name principal investigator (PI, Co-PI....): Eduardo Fernández-Medina Patón

Nº of researchers: 23

Funding entity or bodies:

FEDER y Consejería de Educación y Ciencia de la Junta de Castilla - La Mancha

Start-End date: 06/2005 - 06/2008

Duration: 3 years

Participating entity/entities: Universidad de Alicante; Universidad de Castilla-La Mancha; Universidad de Murcia

Total amount: 129.600 €

19 Name of the project: CALIA. Calidad de Almacenes de Datos

Name principal investigator (PI, Co-PI....): Manuel Ángel Serrano

Nº of researchers: 6

Funding entity or bodies:
UCLM

Start-End date: 01/01/2006 - 31/12/2007

Total amount: 6.000 €

20 Name of the project: CALIPO (Calidad en Portales)

Name principal investigator (PI, Co-PI....): Coral Calero Muñoz

Nº of researchers: 10

Funding entity or bodies:

Ministerio de Ciencia y Tecnología (TIC 2003-07804-C05-03)

Start-End date: 12/2003 - 12/2006

Duration: 3 years

Participating entity/entities: Universidad Carlos III de Madrid; Universidad Politécnica de Valencia; Universidad de Cartagena; Universidad de Castilla-La Mancha; Universidad de Murcia

Total amount: 172.000 €



- 21 Name of the project:** MESSENGER (Mejora de los Sistemas Electrónicos de Gestión de Relaciones)
Name principal investigator (PI, Co-PI....): Marcela Genero Bocco
Nº of researchers: 10
Funding entity or bodies:
JCCM (PCC-03-003-1)
Start-End date: 10/2003 - 12/2005 **Duration:** 2 years - 2 months
Participating entity/entities: Universidad de Alicante; Universidad de Castilla-La Mancha; VarNet
Total amount: 115.900 €
- 22 Name of the project:** CALDEA (Calidad de Almacenes de Datos)
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
Nº of researchers: 10
Funding entity or bodies:
MCyT TIC-2000-0024-P4-02
Start-End date: 01/07/2001 - 31/12/2003 **Duration:** 2 years - 6 months
Participating entity/entities: Cronos Ibérica, S.A.U.; Universidad de Castilla La Mancha
Total amount: 156.503,55 €
- 23 Name of the project:** CALDEA: Calidad de Almacenes de Datos (Datawarehouses)
Geographical area: National
Name principal investigator (PI, Co-PI....): Piattini Velthuis, Mario Gerardo
Nº of researchers: 10
Funding entity or bodies:
Ministerio de Educación, Cultura y Turismo (TIC-2000-0024-P04-02)
Start-End date: 01/07/2001 - 31/12/2003 **Duration:** 2 years - 5 months
Participating entity/entities: Cronos Ibérica S.A.; Universidad de Castilla-La Mancha
Total amount: 156.000 €
- 24 Name of the project:** MEDEO: Mejora en el Desarrollo de Objetos
Name principal investigator (PI, Co-PI....): Piattini Velthuis, Mario Gerardo
Funding entity or bodies:
Ministerio de Comercio y Turismo (TIC-2000-1673-C06-06)
Start-End date: 01/12/2000 - 31/12/2003 **Duration:** 3 years
Participating entity/entities: Universidad Politécnica de Valencia; Universidad de Castilla-La Mancha; Universidad de Granada; Universidad de Murcia; Universidad de Sevilla; Universidad de Valladolid
Total amount: 89.075 €
- 25 Name of the project:** MANTIS (Entorno para el Mantenimiento Integral del Software)
City of entity: Real, Atos-Ods,
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
Nº of researchers: 7
Funding entity or bodies:
CICYT-FEDER (1FD97-1608 TIC)
Start-End date: 01/01/2000 - 31/12/2001 **Duration:** 1 year - 11 months - 30 days
Participating entity/entities: Atos-Ods; Diputación de Ciudad Real; Universidad de Castilla-La Mancha
Total amount: 57.456,76 €



- 26 Name of the project:** MANTICA (Definición de un Conjunto de Métricas para la Mantenibilidad de Bases de Datos Objeto-Relacionales)
Name principal investigator (PI, Co-PI....): Mario Piattini Velthuis
N° of researchers: 7
Funding entity or bodies:
CICYT-FEDER (1FD97-0168 TIC)
Start-End date: 01/01/1999 - 31/12/2001 **Duration:** 3 years
Participating entity/entities: Atos-Ods; Plataforma Solar de Almeria; Universidad de Castilla-La Mancha
Total amount: 89.088,02 €

R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** ESEDM: Evaluación de Sistemas de Explotación de Datos Maestros
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Manuel Ángel Serrano Martín
N° of researchers: 1
Funding entity or bodies:
DATA QUALITY TEAM S.L. **Type of entity:** Business
City funding entity: Castile-La Mancha, Spain
Start date: 15/11/2022 **Duration:** 4 months
Total amount: 42.350 €
- 2 Name of the project:** D2CR: Despoblamiento y Despoblación en la Provincia de Ciudad Real
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Francisco Ruiz González; Ángel Raúl Ruiz Pulpón
N° of researchers: 3
Funding entity or bodies:
Diputación de Ciudad Real **Type of entity:** Diputación
City funding entity: Ciudad Real, Castile-La Mancha, Spain
Start date: 01/06/2021 **Duration:** 1 year
Total amount: 9.000 €
- 3 Name of the project:** SPSE: Software Product Security Evaluation
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Ricardo Pérez del Castillo; Manuel Ángel Serrano Martín
N° of researchers: 2
Funding entity or bodies:
AQCLAB SOFTWARE QUALITY S.L. **Type of entity:** Business
City funding entity: Castile-La Mancha, Spain
Start date: 08/03/2021 **Duration:** 8 months - 27 days
Total amount: 20.570 €
- 4 Name of the project:** QSALUD: Farmacogenómica Cuántica en el Envejecimiento
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): Ricardo Pérez del Castillo; Manuel Ángel Serrano Martín
N° of researchers: 6
Funding entity or bodies:
Alhambra System S.A. **Type of entity:** Business



City funding entity: Madrid, Community of Madrid, Spain

Start date: 01/09/2020

Duration: 3 years - 4 months - 1 day

Total amount: 235.950 €

- 5 Name of the project:** D2CR: Mantenimiento y Actualización del Sistema Web de Despoblamiento y Despoblación en la provincia de Ciudad Real

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Francisco Ruiz González; Ángel Raúl Ruiz Pulpón

Nº of researchers: 3

Funding entity or bodies:

Diputación de Ciudad Real

Type of entity: Diputación

City funding entity: Ciudad Real, Castile-La Mancha, Spain

Start date: 29/11/2019

Duration: 2 years

Total amount: 18.634 €

- 6 Name of the project:** eurekaDQIoT: Development of the framework of data quality management for vitalization of IoT products - a case of gas turbines

Degree of contribution: Researcher

Nº of researchers: 6

Start date: 01/09/2017

Duration: 3 years

Total amount: 234.869 €

- 7 Name of the project:** DQC: Data Quality Certification

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Ismael Caballero Muñoz-Reja; Jorge Merino; Manuel Angel Serrano Martin

Nº of researchers: 3

Start date: 27/02/2016

Duration: 1 year - 6 months

Total amount: 14.000 €

- 8 Name of the project:** ASESORÍA PARA LA EVALUACIÓN Y CERTIFICACIÓN DEL GOBIERNO Y LA CALIDAD DE DATOS

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Ismael Caballero Muñoz Reja; Felix Oscar Garcia Rubio; Aurora Vizcaino Barcelo; Manuel Angel Serrano Martin

Nº of researchers: 4

Funding entity or bodies:

ALARCOS QUALITY CENTER

City funding entity: Spain

Start date: 01/12/2014

Duration: 14 months

Total amount: 30.000 €

- 9 Name of the project:** LPS-BIGGER: Línea de Productos para BIG data a partir de aplicaciones innovadoras en Entornos Reales

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI...): Mario Piattini Velthuis

Nº of researchers: 7

Participating entity/entities: INDRA SOFTWARE LABS SL; Universidad de Alicante; Universidad de Castilla-La Mancha; Universidad de La Coruña

Start date: 10/07/2014

Duration: 3 years



Total amount: 200.000 €

- 10 Name of the project:** ORIGIN (ORganizaciones Inteligentes Globales Innovadoras)
Name principal investigator (PI, Co-PI...): Mario Piattini Velthuis
N° of researchers: 22
Participating entity/entities: Universidad de Castilla-La Mancha
Funding entity or bodies:
INDRA SOFTWARE LABS S.L.
Start date: 06/04/2012
Total amount: 800.000 €
- 11 Name of the project:** ORIGIN (ORganizaciones Inteligentes Globales Innovadoras)
Name principal investigator (PI, Co-PI...): Mario Piattini Velthuis
N° of researchers: 6
Participating entity/entities: Universidad de Castilla-La Mancha
Funding entity or bodies:
SIGTEL GEOMATICA S.L.
Start date: 06/04/2010
Total amount: 125.000 €
- 12 Name of the project:** EECCOO (Entorno para la Evaluación Continua de la Calidad de artefactOs sOftware)
Name principal investigator (PI, Co-PI...): Marcela Genero Bocco
N° of researchers: 2
Participating entity/entities: Universidad de Castilla-La Mancha
Funding entity or bodies:
ALARCOS QUALITY CENTER
Start date: 17/03/2010
Total amount: 18.000 €
- 13 Name of the project:** MEDUSAS (Mejora y Evaluación del Diseño, Usabilidad, Seguridad y Mantenimiento de Software)
Name principal investigator (PI, Co-PI...): Félix O. García Rubio
N° of researchers: 6
Participating entity/entities: Universidad de Castilla-La Mancha
Funding entity or bodies:
AUDISEC, Seguridad de la Información S.L.
Start date: 06/05/2009
Total amount: 60.000 €



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CURRÍCULUM VITAE NORMALIZADO

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Results

Industrial and intellectual property

- Title registered industrial property:** DQMeter: Herramienta para la Medición de Calidad de Datos de un Producto Software
Inventors/authors/obtainers: Jorge Merino García; Ismael Caballero Muñoz-Reja; Manuel Angel Serrano Martín; Mario Gerardo Piattini Velthuis
N° of application: 00/2014/448
Country of inscription: Spain, Castile-La Mancha
Date of register: 18/02/2014
- Title registered industrial property:** QUPROVIS3D
Inventors/authors/obtainers: María de los Ángeles Moraga de la Rubia; José Domingo López López; Félix Óscar García Rubio; Manuel Ángel Serrano Martín; Mario Gerardo Piattini Velthuis; Ramón Luis Tabaco Rubio
N° of application: 00/2013/4873
Country of inscription: Spain, Castile-La Mancha
Date of register: 04/10/2013

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- Luis Enrique Sánchez Crespo; Antonio Santos-Olmo; David García Rosado; Carlos Blanco; Manuel A. Serrano Martín; Haralambos Mouratidis; Eduardo Fernández-Medina Patón. MARISMA: A modern and context-aware framework for assessing and managing information cybersecurity risks. Computer Standards and Interfaces. 92, Elsevier, 2025.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- Elena Desdentado; Coral Calero; M^a Ángeles Moraga de la Rubia; Manuel Angel Serrano Martín; Félix García. Exploring the trade-off between computational power and energy efficiency: An analysis of the evolution of quantum computing and its relation to classical computing. Journal of Systems and Software. 217, Elsevier, 2024.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- Ricardo Pérez del Castillo; Manuel Ángel Serrano Martín; José Antonio Cruz Lemus; Mario Piattini Velthuis. Guidelines to use the ICSM for developing quantum-classical systems. Quantum Information & Computation. 24 - 1&2, Rinton Press, 2024. ISSN 1533-7146
DOI: 10.26421/QIC24.1-2-4
Type of production: Scientific paper **Format:** Journal
Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee



Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 1,2

Position of publication: 87

Corresponding author: No

Category: COMPUTER SCIENCE, THEORY & METHODS

Journal in the top 25%: No

No. of journals in the cat.: 111

- 4 Manuel Angel Serrano Martin; Luis Enrique Sanchez Crespo; Antonio Santos-Olmo; David Garcia Rosado; Carlos Blanco Bueno; Vita Santa Barletta; Danilo Caivano; Eduardo Fernández-Medina Patón. Minimizing incident response time in real-world scenarios using quantum computing. Software Quality Journal. Springer, 2024. ISSN 0963-9314

DOI: 10.1007/s11219-023-09632-6

Type of production: Scientific paper

Position of signature: 1

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Category: COMPUTER SCIENCE, SOFTWARE ENGINEERING

Journal in the top 25%: No

No. of journals in the cat.: 110

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1,813

Position of publication: 69

- 5 Antonio Santos-Olmo; Luis Enrique Sánchez Crespo; David García Rosado; Manuel Angel Serrano Martin; Carlos Blanco Bueno; Haralambos Mouratidis; Eduardo Fernández-Medina Patón. Towards an integrated risk analysis security framework according to a systematic analysis of existing proposals. Frontiers of Computer Science. Frontiers Journals, 2024. Available on-line at: <<https://journal.hep.com.cn/fcs/EN/abstract/article/2095-2228/34207>>. ISSN 2095-2228

DOI: 10.1007/s11704-023-1582-6

Type of production: Scientific paper

Position of signature: 4

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: COMPUTER SCIENCE, SOFTWARE ENGINEERING

Journal in the top 25%: No

No. of journals in the cat.: 110

Total no. authors: 7

Impact source: SCOPUS

Impact index in year of publication: 2,669

Position of publication: 44

- 6 Maria I. Ortega; Julio Moreno García-Nieto; Manuel A. Serrano Martín; Eduardo Fernandez-Medina Patón. A Systematic Analysis of Security in Blockchain. J. Inf. Sci. Eng.39 - 1, pp. 197 - 222. 2023. Available on-line at: <http://jise.iis.sinica.edu.tw/JISESearch/pages/View/PaperView.jsf?keyId=191_2581>. ISSN 1016-2364

DOI: 10.6688/JISE.202301_39(1).0012

Type of production: Scientific paper

Position of signature: 3

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Category: COMPUTER SCIENCE, INFORMATION SYSTEMS

Journal in the top 25%: No

No. of journals in the cat.: 164

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 1,142

Position of publication: 147



- 7 David E Ruiz de Gauna; Luis E Sánchez; Almudena Ruiz-Iniesta; Claudia Villalonga; Manuel A Serrano. Towards an integrated swarm intelligence framework for urban mobility: A systematic review and proposed theoretical model. *Journal of King Saud University-Computer and Information Sciences*. pp. 101836 - 101836. Elsevier, 2023. ISSN 1319-1578
DOI: 10.1016/j.jksuci.2023.101836
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 8 Vita Santa Barletta; Danilo Caivano; Mirko De Vincentiis; Azzurra Ragone; Michele Scalera; Manuel Ángel Serrano Martín. V-SOC4AS: A Vehicle-SOC for Improving Automotive Security. *Algorithms*. 16 - 2, pp. 112 - 112. 2023. Available on-line at: <<https://www.mdpi.com/1999-4893/16/2/112>>. ISSN 1999-4893
DOI: 10.3390/a16020112
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 6
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 9 David García Rosado; Antonio Santos-Olmo; Luis Enrique Sánchez; Manuel Ángel Serrano Martín; Carlos Blanco Bueno; Haris Mouratidis; Eduardo Fernández-Medina Patón. Managing Cybersecurity Risks of Cyber-Physical Systems: The MARISMA-CPS pattern. *Computers in Industry*. (aceptado), 2022. ISSN 0166-3615
DOI: 10.1016/j.compind.2022.103715
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 7
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 10 Manuel Ángel Serrano Martín; José Antonio Cruz Lemus; Ricardo Pérez del Castillo; Mario Gerardo Piattini Velthuis. Quantum Software Components and Platforms: Overview and Quality Assessment. *ACM Computing Surveys*. 55 - 8, ACM, 2022. ISSN 0360-0300
DOI: 10.1145/3548679
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 11 David García Rosado; Julio Moreno García-Nieto; Luis Enrique Sánchez Crespo; Antonio Santos-Olmo Parra; Manuel Ángel Serrano Martín. MARISMA-BiDa pattern: Integrated risk analysis for big data. *Computers & Security*. 102, Elsevier, 03/2021. ISSN 0167-4048
DOI: 10.1016/j.cose.2020.102155
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 12 Mario Piattini Velthuis; Manuel Ángel Serrano Martín; Ricardo Pérez del Castillo; Guido Peterssen; José Luis Hevia. Toward a Quantum Software Engineering. *IT Professional*. 23, 01/01/2021. ISSN 1520-9202
DOI: 10.1109/MITP.2020.3019522
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No



- 13** Ricardo Pérez del Castillo; Manuel Ángel Serrano Martín; Mario Piattini Velthuis. Software modernization to embrace quantum technology. *Advances in Engineering Software*. 151, 01/2021. ISSN 0965-9978
DOI: 10.1016/j.advensoft.2020.102933
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 14** Julio Moreno Nieto; David García Rosado; Luis Enrique Sánchez Crespo; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patín. Security Reference Architecture for Cyber-Physical Systems (CPS). *Journal of Universal Computer Science*. 27 - 6, J.UCS Consortium, 2021. ISSN 0948-695X
DOI: 10.3897/jucs.68539
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 15** Julio Moreno García-Nieto; Javier Gómez; Manuel Ángel Serrano Martín; Eduardo B. Fernández; Eduardo Fernández-Medina Patón. Application of security reference architecture to Big Data ecosystems in an industrial scenario. *Software - Practice and Experience*. 50 - 8, 08/2020. ISSN 0038-0644
DOI: 10.1002/spe.2829
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 16** Julio Moreno García-Nieto; Manuel Ángel Serrano Martín; Eduardo B. Fernández; Eduardo Fernández-Medina Patón. Improving Incident Response in Big Data Ecosystems by Using Blockchain Technologies. *Applied Sciences*. 10 - 2, 01/2020. ISSN 2076-3417
DOI: 10.3390/app10020724
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 4
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 17** Julio Moreno García-Nieto; Eduardo B Fernández; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patón. Secure Development of Big Data Ecosystems. *IEEE Access*. 7, pp. 96604 - 96619. IEEE, 2019. ISSN 2169-3536
DOI: 10.1109/ACCESS.2019.2929330
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 4
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 18** Bibiano Rivas García; Jorge Merino García; Ismael Caballero Muñoz-Reja; Manuel Ángel Serrano Martín; Mario Piattini Velthuis. Towards a service architecture for master data exchange based on ISO 8000 with support to process large datasets. *Computer Standards & Interfaces*. 2017 - 54, pp. 94 - 104. Elsevier, 2017. ISSN 0920-5489
DOI: 10.1016/j.csi.2016.10.004
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No



- 19** Jorge Merino; Ismael Caballero Muñoz-Reja; Bibiano Rivas García; Manuel Ángel Serrano Martín; Mario Gerardo Piattini Velthuis. A Data Quality in Use model for Big Data. Future Generation Computer Systems. 63 - 2016, pp. 123 - 130. Elsevier, 2016. ISSN 0167-739X
DOI: 10.1016/j.future.2015.11.024
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 20** Alejandro Maté; Juan Carlos Trujillo Mondéjar; Félix Óscar García Rubio; Manuel Ángel Serrano Martín; Mario Gerardo Piattini Velthuis. Empowering global software development with business intelligence. Information and Software Technology. 76, pp. 81 - 91. Elsevier, 2016. ISSN 0950-5849
DOI: 10.1016/j.infsof.2016.04.011
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 21** Julio Moreno García-Nieto; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patín. Main Issues in Big Data Security. Future Internet. 8, pp. 44 - 60. MDPI, 2016. ISSN 1999-5903
DOI: 10.3390/fi8030044
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 3
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 22** Felix Garcia Rubio; Maria de los Angeles Moraga de la Rubia; Manuel Angel Serrano Martin; Mario Piattini Velthuis. Visualisation environment for global software development management. IET Software. 9 - 2, pp. 51 - 64. IET, 04/2015. ISSN 1751-8806
DOI: 10.1049/iet-sen.2013.0193
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 4
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 23** García, F.; Serrano, M.; Cruz-Lemus; Genero, M.; Calero, C.; Piattini, M.. Empirical Studies in Software Engineering Courses: Some Pedagogical Experiences. International Journal of Engineering Education (IJEE). 24 (4), pp. 761 - 771. (United States of America): 2008. ISSN 0949-149X
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 6
Impact source: ISI
Impact index in year of publication: 0.356
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 24** Serrano, M.A.; Calero, C.; Sahraoui, H.; Piattini, M.. Empirical Studies to Assess the Understandability of Data Warehouse Schemas using Structural Metrics. Software Quality Journal. 16(1), pp. 79 - 106. (United States of America): 2008. ISSN 0963-9314
DOI: 10.1007/s11219-007-9030-7
Type of production: Scientific paper
Position of signature: 1
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0.974

Corresponding author: No

- 25** García, F.; Serrano, M.; Cruz-Lemus, J.; Ruiz, F.; Piattini, M.. Managing Software Process Measurement: A Metamodel-based Approach. Information Sciences. 177 (12), pp. 2570 - 2586. (United States of America): 2007. ISSN 0020-0255

DOI: 10.1016/j.ins.2007.01.018

Type of production: Scientific paper

Position of signature: 2

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: No

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.147

- 26** Serrano, M.; Trujillo, J.C; Calero, C.; Piattini, M. Metrics for data warehouse conceptual models understandability. Information and Software Technology. 49(8), pp. 851 - 870. 2007. ISSN 0950-5849

DOI: 10.1016/j.infsof.2006.09.008

Type of production: Scientific paper

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 0.581

- 27** Serrano, M.; Calero, C.; Piattini, M.. An Experimental Replication With Data Warehouse Metrics. International Journal of Data Warehousing and Mining,. 1(4), pp. 95 - 104. 2005. ISSN 1548-3924

DOI: 10.4018/jdwm.2005100101

Type of production: Scientific paper

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 3

Impact source: ISI

- 28** Serrano, M.; Calero, C.; Piattini, M.. Validating Metrics for Datawarehouses. IEE Proceedings SOFTWARE. 149 (5), pp. 923 - 941. (United Kingdom): 2002. ISSN 1462-5970

DOI: 10.1049/ip-sen:20020697

Type of production: Scientific paper

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 0.400

- 29** Serrano, M; Calero, C.; Piattini, M.. Metrics for Data Warehouse Quality. Encyclopedia of Information Science and Technology. pp. 1939 - 1944. Idea Group Inc, 2005.

Type of production: Book chapter

Position of signature: 1

Degree of contribution: Author or co-author of chapter in book



- Total no. authors:** 3 **Corresponding author:** Yes
- 30** Serrano, M.; Calero, C.; Trujillo, J.; Luján, S; Piattini, M.. Metrics for Datawarehouses Conceptual Models. Metrics for Software Conceptual Models. pp. 207 - 235. Imperial Collage Press, 2005.
Type of production: Book chapter
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 5 **Corresponding author:** Yes
- 31** Serrano, M.; Calero, C.; Piattini, M.. Metrics for Datawarehouse Quality. Effective Databases for Text & Document Management. pp. 156 - 173. IRM Press, 2003.
Type of production: Book chapter
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 3 **Corresponding author:** Yes
- 32** Serrano, M.; Caballero, I; Calero, C.; Piattini, M.. Calidad de los Almacenes de Datos. Calidad en el desarrollo y mantenimiento del software. pp. 215 - 234. Ra-ma, 2002.
Type of production: Book chapter
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 4 **Corresponding author:** Yes
- 33** Genero, M.; Piattini, M.; Calero, C.; Serrano, M.. Measures to get better quality databases. Enterprise Information Systems II.pp. 49 - 55. Kluwer Academic Publishers, 2001.
Type of production: Book chapter
Position of signature: 4 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 4 **Corresponding author:** No
- 34** Manuel Ángel Serrano Martín; Ricardo Pérez del Castillo; Mario Gerardo Piattini Velthuis. Quantum Software Engineering. Quantum Software Engineering. Springer, 2022. ISBN 978-3-031-05323-8
DOI: 10.1007/978-3-031-05324-5
Type of production: Scientific book or monograph **Format:** Book
Position of signature: 1 **Degree of contribution:** Editor or co-editor
Total no. authors: 3 **Corresponding author:** Yes
- 35** Fernández-Medina, E; Piattini, M; Serrano, M.. Seguridad en Bases de Datos. pp. 1 - 300. Madrid(Spain): Fundación Dintel, 2001. ISBN 84-931933-9-9
Type of production: Scientific book or monograph
Position of signature: 3 **Degree of contribution:** Editor or co-editor
Total no. authors: 3 **Corresponding author:** No

Works submitted to national or international conferences

- 1 Title of the work:** BlockBD: a security pattern to incorporate blockchain in big data ecosystems
Name of the conference: EuroPLOP 2019
Corresponding author: No
City of event: Kloster Isee, Germany
Date of event: 2019
Julio Moreno García-Nieto; Eduardo B. Fernández; Eduardo Fernández-Medina Patón; Manuel Ángel Serrano Martín.
- 2 Title of the work:** Towards a Security Reference Architecture for Big Data
Name of the conference: 20th International Workshop On Design, Optimization, Languages and Analytical Processing of Big Data (DOLAP 2018)
Corresponding author: No
City of event: Viena, Austria
Date of event: 26/03/2018
Organising entity: TU Wien
City organizing entity: Viena, Austria
Type of contribution: Scientific book or monograph
Julio Moreno; Manuel A. Serrano; Eduardo Fernández-Medina; Eduardo B. Fernández. "Proceedings of the 20th International Workshop on Design, Optimization, Languages and Analytical Processing of Big Data co-located with 10th {EDBT/ICDT} Joint Conference {(EDBT/ICDT} 2018), Vienna, Austria, March 26-29, 2018.". 2018. Available on-line at: <<http://ceur-ws.org/Vol-2062/paper04.pdf>>.
- 3 Title of the work:** Uso de técnicas Big Data para evaluar seguridad
Name of the conference: XIV Reunión Española sobre Criptología y Seguridad de la Información (RECSI 2016)
Corresponding author: No
City of event: Mahón, Balearic Islands, Spain
Date of event: 26/10/2016
End date: 28/10/2016
Julio Moreno García-Nieto; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patón. "Uso de técnicas Big Data para evaluar seguridad".
- 4 Title of the work:** Infrastructure-Aware Functional Testing of MapReduce Programs
Name of the conference: 4th IEEE International Conference on Future Internet of Things and Cloud Workshops (FiCloud Workshops 2016)
Corresponding author: No
City of event: Viena, Austria
Date of event: 22/08/2016
End date: 24/08/2016
Jesús Morán; Bibiano Rivas García; Claudio de la Riva; Javier Tuya; Ismael Caballero Muñoz-Reja; Manuel Ángel Serrano Martín. "Infrastructure-Aware Functional Testing of MapReduce Programs".
- 5 Title of the work:** Securing Databases Using Big Data Technology
Name of the conference: 21st International Conference on Information Quality (ICIQ 2016)
Corresponding author: No
City of event: Ciudad Real, Castile-La Mancha, Spain
Date of event: 22/06/2016
End date: 23/06/2016



Julio Moreno García-Nieto; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patón. "Securing Databases Using Big Data Technology".

- 6 Title of the work:** Towards a Security Model for Big Data
Name of the conference: VIII Congreso Iberoamericano de Seguridad Informática (CIBSI 2015)
Corresponding author: No
City of event: SanGolqui (Quito), Ecuador
Date of event: 10/11/2015
End date: 12/11/2015
Julio Moreno García-Nieto; David García Rosado; Ismael Caballero Muñoz-Reja; Manuel Ángel Serrano Martín; Eduardo Fernández-Medina Patón. "Towards a Security Model for Big Data".
- 7 Title of the work:** I8K|DQ-BigData: I8K Architecture Extension for Data Quality in Big Data
Name of the conference: The fourth International Workshop on Modeling and Management of Big Data (MoBiD)
City of event: Estocolmo, Sweden
Date of event: 19/10/2015
End date: 22/10/2015
Bibiano Rivas Garcia; Jorge Merino Garcia; Manuel Angel Serrano Martin; Ismael Caballero Muñoz-Reja; Mario Piattini Velthuis.
- 8 Title of the work:** I8K|DQ-BigData: Extensión Arquitectura I8K para Calidad de Datos en Big Data
Name of the conference: XX Jornadas de Ingeniería del Software y Bases de Datos
City of event: Santander, Spain
Date of event: 15/09/2015
End date: 17/09/2015
Organising entity: SISTEDES
Bibiano Rivas García; Jorge Merino; Manuel Angel Serrano Martín; Ismael Caballero Muñoz-Reja; Mario Piattini Velthuis.
- 9 Title of the work:** A Quality in Use Model for Big Data
Name of the conference: 2nd International Workshop on Modeling and Management of Big Data
City of event: Atlanta, United States of America
Date of event: 10/2014
Ismael Caballero Muñoz-Reja; Mario Piattini Velthuis; Manuel Ángel Serrano Martín.
- 10 Title of the work:** Métricas de Calidad para Almacenes de Datos
Name of the conference: VI Jornadas de Ingeniería del Software y Bases de Datos JISBD '2001
City of event: Ciudad Real,
Date of event: 11/2011
End date: 11/2011
Manuel A. Serrano; C. Pascual; Coral Calero; Mario Piattini. ISBN 84-699-6275-2
- 11 Title of the work:** Tailoring Data Quality Models Using Social Network Preferences.
Name of the conference: Database Systems for Advanced Applications, DASFAA 2009
City of event: Brisbane, Australia,,
Date of event: 20/04/2009
End date: 23/04/2009
Organising entity: Springer
Ismael Caballero; Eugenio Verbo; Manuel A. Serrano; Coral Calero; Mario Piattini. pp. 152 - 166. ISBN 978-3-642-04204-1



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CURRÍCULUM VITAE NORMALIZADO

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- 12 Title of the work:** Una propuesta de un modelo conceptual de calidad de almacenes de datos
Name of the conference: XII Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2007)
City of event: Zaragoza,
Date of event: 11/09/2007
End date: 14/09/2007
Organising entity: Thomson Editorial
Manuel A. Serrano; Rafael Romero; Jose-Norberto Mazón; Juan Trujillo; Mario Piattini. pp. 297 - 306. ISBN 978-84-9732-595-0
- 13 Title of the work:** A Proposal for a Conceptual Data Warehouse Quality Model
Name of the conference: Nineteenth International Conference on Software Engineering & Knowledge Engineering (SEKE 2007)
City of event: Boston, Massachusetts, USA,,
Date of event: 09/07/2007
End date: 11/07/2007
Manuel A. Serrano.; Rafael Romero.; Jose-Norberto Mazón.; Juan Trujillo; Mario Piattini. pp. 477 - 482. ISBN 1-891706-20-9
- 14 Title of the work:** Estimating the performance and capacity of software processes according to ISO/IEC 15504
Name of the conference: International Conference on Software Process and Product Measurement (MENSURA 2006)
City of event: Cádiz, España,
Date of event: 06/11/2006
End date: 08/11/2006
Francisco Pino; Félix O. Garcia; Manuel Serrano; Mario Piattini. ISBN 978-84-9828-101-9
- 15 Title of the work:** Improving the Development of Data Warehouses by Enriching Dimension Hierarchies with WordNet
Name of the conference: Ontologies-Based Databases and Information Systems, First and Second VLDB Workshops, (ODBIS 2005)
City of event: Seoul, Korea,,
Date of event: 11/09/2006
End date: 11/09/2006
Jose-Norberto Mazón; Juan Trujillo; Manuel A. Serrano; Mario Piattini. pp. 85 - 101. ISBN 978-3-540-75473-2
- 16 Title of the work:** Applying MDA to the development of data warehouses
Name of the conference: 8th International Workshop on Data Warehousing and OLAP (DOLAP 2005)
City of event: Bremen, Germany,,
Date of event: 31/10/2005
End date: 05/11/2005
Organising entity: ACM
Jose-Norberto Mazón; Juan Trujillo; Manuel A. Serrano; Mario Piattin. pp. 55 - 66. ISBN 1-59593-162-7
- 17 Title of the work:** Diagramas de casos de uso para el análisis de requisitos en almacenes de datos
Name of the conference: X Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2005)
City of event: Granada,
Date of event: 14/09/2005
End date: 16/09/2005
Organising entity: Thomson



Jose-Norberto Mazón; Juan Trujillo; Manuel A. Serrano; Mario Piattini. pp. 289 - 284. ISBN 84-9732-434-X

- 18 Title of the work:** Especificación de jerarquías de dimensión en un almacén de datos usando WordNet

Name of the conference: X Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2005)

City of event: Granada,

Date of event: 14/09/2005

End date: 16/09/2005

Organising entity: Thomson

Jose-Norberto Mazón; Juan Trujillo; Manuel A. Serrano; Mario Piattini. pp. 295 - 300. ISBN 84-9732-434-X

- 19 Title of the work:** Using WordNet Ontology to automatically enrich dimension hierarchies in a data warehouse

Name of the conference: VLDB Workshop on Ontologies-based techniques for DataBases and Information Systems (OBDIS 2005)

City of event: Trondheim, Noruega,

Date of event: 02/09/2005

End date: 03/09/2005

Jose-Norberto Mazón; Juan Carlos Trujillo; Manuel A. Serrano; Mario Piattini.

- 20 Title of the work:** Designing Data Warehouses: From Business Requirement Analysis to Mutidimensional Modelling

Name of the conference: International Workshop on Requirements Engineering for Business Need and IT Alignment (REBNITA 2005)

City of event: Paris, Francia,

Date of event: 29/08/2005

End date: 30/08/2005

Jose-Norberto Mazón; Juan Calors Trujillo; Manuel A. Serrano; Mario Piattini.

- 21 Title of the work:** A Set of Quality Indicators and Their Corresponding Metrics for Conceptual Models of Data Warehouses

Name of the conference: Data Warehousing and Knowledge Discovery, 7th International Conference, DaWaK 2005

City of event: Copenhagen, Denmark,

Date of event: 22/08/2005

End date: 26/08/2005

Organising entity: Springer, Lecture Notes in Computer Science

Gema Berenguer; Rafael Romero; Juan Trujillo; Manuel A. Serrano; Mario Piattini. pp. 95 - 104.

- 22 Title of the work:** The advisability of using packages in data warehouse design

Name of the conference: 9th ECOOP Workshop on Quantitative Approaches in Object-Oriented Software Engineering (QAOOSE '05)

City of event: Glasgow, Reino Unido,

Date of event: 25/07/2005

End date: 25/07/2005

Manuel A.Serrano; R. Romero; Juan Calos Trujillo; Mario Piattini. ISBN 2-89522-065-4

- 23 Title of the work:** Empirical Validation of Metrics for Conceptual Models of Data Warehouse

Name of the conference: 16th International Conference on Advanced Information Systems Engineering (CAISE'04)

City of event: Riga, Letonia,

Date of event: 07/06/2004

End date: 11/06/2004



Manuel A. Serrano; Coral Calero; Juan Carlos Trujillo; S. Lujan; Mario Piattini. ISBN 3-540-22151-4

- 24 Title of the work:** Datawarehouses design: effectivity of the star schema
Name of the conference: International Conference on Software Engineering and Knowledge Engineering (SEKE 2004).
Type of participation: Participatory - oral communication
City of event: Banff, Alberta (Canada),
Date of event: 06/2004
Calero, C.,; Serrano, M.,; Piattini, M.pp. 392 - 395. ISBN 1-891706-14-4
- 25 Title of the work:** Empirical Validation of Metrics for Datawarehouses
Name of the conference: 4th ASERC Workshop on Quantitative and Soft Computing Based Software Engineering (QSSE 2004)
City of event: Banff, Alberta, Canada,
Date of event: 16/02/2004
End date: 17/02/2004
Manuel A. Serrano; Coral Calero; Juan Carlos Trujillo; S. Lujan; Mario Piattini.
- 26 Title of the work:** Towards a metric suite for conceptual models for datawarehouses
Name of the conference: Software Audits and Metrics (SAM 2004)
City of event: Porto (Portugal),
Date of event: 2004
Serrano. M.,; Calero, C.,; Trujillo, J.,; Luján, S.,; Piattini, M.
- 27 Title of the work:** Propuesta de métricas para almacenes de datos a nivel conceptual
Name of the conference: VIII Jornadas Ingeniería del Software y Bases de Datos (JISBD 2003)
City of event: Alicante,
Date of event: 12/11/2003
End date: 14/11/2003
Manuel A. Serrano; Coral Calero; Juan Trujillo; Sergio Luján-Mora; Mario Piattini. pp. 665 - 674.
- 28 Title of the work:** Experimental validation of multidimensional data models metrics
Name of the conference: Thirty-Sixth IEEE Hawaii International Conference on System Sciences (HICSS-36)
Type of participation: Participatory - oral communication
City of event: Hawai, Estados Unidos,
Date of event: 06/01/2003
End date: 09/01/2003
Organising entity: IEEE Computer Society
Manuel Serrano,; Coral Calero,; Mario Piattini, . pp. 327 - 327. ISBN 0-7695-1875-5
- 29 Title of the work:** An Empirical Study with Datawarehouse Design Methods
Name of the conference: Workshop On Empirical Studies (In collaboration with PROFES 2002)
City of event: Rovaniemi,
Date of event: 12/2002
End date: 12/2002
Manuel A. Serrano; Coral Calero; Mario Piattini.
- 30 Title of the work:** Estudio Empírico sobre Métodos de Diseño de Almacenes de Datos
Name of the conference: Taller sobre Integración Semántica de Fuentes de Datos Distribuidas y Heterogéneas (REDBD 2002) asociado a JISBD 2002



City of event: El Escorial (Madrid),
Date of event: 20/11/2002
End date: 20/11/2002
Manuel Serrano; Coral Calero; Mario Piattini.

- 31 Title of the work:** : Un método para la definición de métricas de software
Name of the conference: Métodos de Investigación y Fundamentos Filosóficos en Ingeniería del Software y Sistemas de Información (MIFISIS'2002) asociado a JISBD 2002
City of event: El Escorial (Madrid),
Date of event: 18/11/2002
End date: 18/11/2002
Manuel Serrano; Mario Piattini; Coral Calero; Marcela Genero; Daniela Miranda.
- 32 Title of the work:** Validating metrics for data warehouses
Name of the conference: Evaluation and Assessment in Software Engineering (EASE 2002).
City of event: Keele,
Date of event: 08/04/2002
End date: 10/04/2002
- 33 Title of the work:** Secure Object Constraint Language
Name of the conference: 35th Annual IEEE International Carnahan Conference on Security Technology
City of event: Londres (Gran Bretaña),
Date of event: 10/2001
End date: 10/2001
Organising entity: IEEE
Fernández-Medina, Eduardo; Mario Piattini; Manuel A. Serrano. pp. 228 - 237. ISBN 0-7803-6636-0
- 34 Title of the work:** Towards data warehouse quality metrics
Name of the conference: 3rd International Workshop on Design and Management of Data Warehouses (DMDW'2001), at CAISE'2001
City of event: Interlaken (Suiza),
Date of event: 04/06/2001
Coral Calero,; Mario Piattini,; Carolina Pascual,; Manuel A. Serrano. pp. 2.1 - 2.8. ISSN 1424-4691
- 35 Title of the work:** MANTICA: Una herramienta de métricas para modelos de datos
Name of the conference: VI Congreso Argentino de Ciencias de la Computación (CACIC 2000)
City of event: Ushuaia, Tierra de Fuego (Argentina),
Date of event: 02/10/2000
End date: 07/10/2000
Marcela Genero; Mario Piattini; Rincón-Cinca, J; Manuel A. Serrano.
- 36 Title of the work:** Measures to get better quality databases
Name of the conference: 2nd International Conference on Enterprise and Information Systems (ICEIS 2000).
Type of participation: Participatory - oral communication
City of event: Stafford (UK),
Date of event: 04/07/2000
End date: 07/07/2000
Marcela Genero,; Mario Piattini,; Coral Calero,; Manuel A. Serrano. pp. 49 - 55. ISBN 972-98050-1-6



- 37 Title of the work:** Applying metrics to Oracle databases
Name of the conference: 18th European Oracle User Group (EOUG,2000)
City of event: Madrid,
Date of event: 21/06/2000
End date: 23/06/2000
Coral Calero; Mario Piattini; Manuel A. Serrano; Marcela Genero.
- 38 Title of the work:** Metrics for relational database maintainability
Name of the conference: United Kingdom Academy for Information Systems (UKAIS2000)
Type of participation: Participatory - oral communication
City of event: Cardiff(UK),
Date of event: 26/04/2000
End date: 28/04/2000
Coral Calero; Mario Piattini,; Marcela Genero,; Manuel A. Serrano,; Ismael Caballero. pp. 109 - 119. ISBN 0-07-709755-6

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- Committee title:** UNE-CTN 071/SC 14 "TECNOLOGÍAS CUÁNTICAS"
Affiliation entity: AENOR
City affiliation entity: Spain
Start date: 2021
- Committee title:** ISO/IEC JTC1/WG9 BigData
Affiliation entity: ISO e IEC
Start date: 2015

Organization of R&D activities

- Title of the activity:** VI Jornadas Nacionales de Investigación en Ciberseguridad
Type of activity: Jornadas
Geographical area: National
Convening entity: Universidad de Castilla-La Mancha
Type of entity: University
City convening entity: Ciudad Real, Castile-La Mancha, Spain
Start-End date: 09/06/2021 - 10/06/2021
Duration: 2 days
- Title of the activity:** 21st International Conference on Information Quality (ICIQ 2016)
Type of activity: Congreso internacional
Geographical area: Non EU International
Convening entity: Universidad de Castilla-La Mancha
Type of entity: University
City convening entity: Ciudad Real, Castile-La Mancha, Spain
Start-End date: 22/06/2016 - 23/06/2016
Duration: 2 days
- Title of the activity:** ISO/IEC WG13 Meeting
Type of activity: Reunión del Grupo de trabajo 13 para la creación del estándar ISO 8000
Convening entity: European Space Astronomy Centre
Type of entity: Associations and Groups



Start-End date: 17/02/2015 - 19/07/2015

Duration: 3 days

- 4 Title of the activity:** 10th International Conference on Global Software Engineering (ICGSE 2015)
Type of activity: Comité organizador
Start-End date: 13/07/2015 - 16/07/2015
- 5 Title of the activity:** ISO/IEC WG9 2nd Meeting
Type of activity: Reunión del Grupo de trabajo 9 para la creación del estándar ISO de arquitectura de Big Data
Convening entity: European Space Astronomy Centre
Type of entity: Associations and Groups
Start-End date: 07/07/2015 - 09/07/2015
Duration: 3 days
- 6 Title of the activity:** 1st International Workshop on Data Quality and Security (DQS 2009)
Type of activity: Miembro del comité de organización
Start-End date: 11/2009 - 11/2009
- 7 Title of the activity:** 1st International Workshop on Data Quality for Software Engineering (DQ4SE 2009)
Type of activity: Miembro del comité de organización
Start-End date: 08/2009 - 08/2009
- 8 Title of the activity:** 1st International Workshop on Software Audit and Metrics (SAM 2004)
Type of activity: Miembro del comité de organización
Start-End date: 04/2004 - 04/2004
- 9 Title of the activity:** 4th International Conference on Enterprise Information Systems (ICEIS 2002)
Type of activity: Miembro del comité de organización
Start-End date: 04/2002 - 04/2002
- 10 Title of the activity:** VI Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2001)
Type of activity: Miembro del comité de organización
Start-End date: 21/11/2001 - 23/11/2001
- 11 Title of the activity:** II Jornadas de Bibliotecas Digitales (JbiDi 2001)
Type of activity: Miembro del comité de organización
Start-End date: 19/11/2001 - 20/11/2001
- 12 Title of the activity:** I Jornadas de Información Geográfica (JSIG 2001)
Type of activity: Miembro del comité de organización
Start-End date: 11/2001 - 11/2001
- 13 Title of the activity:** I Jornadas sobre Lenguajes de Programación (PROLE 2001)
Type of activity: Miembro del comité de organización
Start-End date: 11/2001 - 11/2001
- 14 Title of the activity:** Curso-Taller Iberoamericano de Tecnologías Interactivas (CTiTi '98)
Type of activity: Miembro del comité de Organización
Start-End date: 1998 - 1998



15 Title of the activity: I Jornada de Auditoría Informática (JAI '98)
Type of activity: Miembro del comité de organización
Start-End date: 1998 - 1998

R&D management

Name of the activity: Secretario del Departamento de Tecnologías y Sistemas de Información
Type of management: Management of body
Performed tasks: Secretario del departamento
Entity: Universidad de Castilla-La Mancha **Type of entity:** University
Start date: 02/05/2014 **Duration:** 4 years - 10 months

Other achievements

Stays in public or private R&D centres

- 1 **Entity:** Università degli studi di Bari **Type of entity:** University
Faculty, institute or centre: Dipartimento di Informatica
City of entity: Bari, Italy
Start-End date: 20/05/2021 - 20/12/2021 **Duration:** 7 months
Goals of the stay: Post-doctoral
- 2 **Entity:** Universidad de Alicante
City of entity: Alicante, España,
Start-End date: 2005 - 2005 **Duration:** 4 months - 15 days
Goals of the stay: Post-doctoral
Provable tasks: Métricas para esquemas conceptuales de Almacenes de Datos
- 3 **Entity:** Universidad de Alicante
City of entity: Alicante, España,
Start-End date: 2004 - 2004 **Duration:** 6 months
Goals of the stay: Doctorate
Provable tasks: Diseño esquemas conceptuales de Almacenes de Datos utilizando UML
- 4 **Entity:** Université de Montreal
City of entity: Montreal, Canada,
Start-End date: 06/2003 - 07/2003 **Duration:** 1 month
Goals of the stay: Doctorate
Provable tasks: Cognitive Complexity of Datawarehouse Schemas using Structural Metrics



Editorial councils

- 1 **Name of the editorial council:** IET Software
Affiliation entity: IET **Type of entity:** Business
City affiliation entity: United Kingdom
Start date: 2018
- 2 **Name of the editorial council:** International Journal of Information Quality
Start date: 12/05/2014
- 3 **Name of the editorial council:** Revista de Experimentación y Medición en Ingeniería del Software
Start date: 2007

Co-operation networks

- 1 **Name of the network:** Red de Excelencia de Big Data
Start date: 2016 **Duration:** 2 years
- 2 **Name of the network:** IQMNet (Red para la Gestión de la Calidad de la Información)
Identification of the network: TIN2010-09809-E **Nº of researchers:** 40
Participating entity/entities: Universidad de Sevilla, Universidad de Huelva, Universidad de Oviedo, Universidad de Granada, Universidad del Bio Bio (Chile), Universidad Politécnica de San Luis Potosí (Méjico), INDRA, DEYDE
Start date: 01/01/2011 **Duration:** 2 years
- 3 **Name of the network:** DQNet (Red para la Promoción de la Calidad de Datos en Sistemas de Información Empresarial)
Identification of the network: TIN2008-0495-E **Nº of researchers:** 54
Participating entity/entities: Universidad del Bío-Bío (Chile), Universidad Politécnica de San Luis Potosí (Méjico), Indra Software Labs, DEYDE, Informática Corporation, SCHOBBER GROUP, Habber Tec, Synergie Partners
Start date: 01/01/2009 **Duration:** 2 years
- 4 **Name of the network:** RETISTRUST (Red Temática Española de Investigación en el Campo de la Seguridad y Confianza para los Sistemas de Información en una Sociedad conectada)
Identification of the network: TIN2006-26885-E **Nº of researchers:** 73
Participating entity/entities: Universidad de Castilla-La Mancha, Diputación de Ciudad Real, IEE - Informáticos Europeos Expertos, Sicaman Nuevas Tecnologías S.L., Universidad Católica de Maule (Chile).....
Start date: 01/11/2006 **Duration:** 1 year
- 5 **Name of the network:** Red DSDM (Red de desarrollo de software dirigido por modelos)
Identification of the network: TIN2005-25866-E
Participating entity/entities: Universidad de Castilla-La Mancha, Universidad de Málaga
Start date: 01/07/2006 **Duration:** 2 years



- 6 Name of the network:** RETISBD (Red Temática Española de Investigación en el Campo de la Seguridad de las Bases de Datos)
N° of researchers: 35
Participating entity/entities: Universidad Rey Juan Carlos de Madrid, Escuela Superior de Informática de Ciudad Real, Banco Uno-E, Universidad Politécnica de Cataluña, Universidad de Deusto, Atos-Ods S.A., Universidad de Murcia
Start date: 2001 **Duration:** 1 year
- 7 Name of the network:** RIS: red de ingeniería del software
Participating entity/entities: Univ. de Sevilla, Univ. de Oviedo, Univ. de Salamanca, Univ. de Granada, Univ. Politécnica de Valencia, Univ. del País Vasco, Univ Politécnica de Cataluña, Univ de Murcia y Univ. de Castilla la Mancha
Start date: 01/12/2000 **Duration:** 1 year

Prizes, mentions and distinctions

Description: Premio al Grupo Alarcos a la Calidad en Proyectos I+D+I, de la IV edición de Premios a la Calidad en Informática
Awarding entity: Colegio Oficial en Ingenieros en Informática de Castilla-La Mancha
Conferral date: 2008

Periods of research activity and knowledge transfer

- 1 Certifying entity:** CNEAI - Comisión Nacional Evaluadora de la Actividad Científica **Type of entity:** State agency
City certifying entity: Spain
Date of recognition: 05/05/2023
- 2 Certifying entity:** CNEAI - Comisión Nacional Evaluadora de la Actividad Científica
City certifying entity: Madrid, Spain
Date of recognition: 19/06/2017
- 3 Certifying entity:** CNEAI - Comisión Nacional Evaluadora de la Actividad Científica
Date of recognition: 13/10/2010

