



Prof. Dr. Antonio Vallecillo

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BIO

Antonio Vallecillo is Full Professor of Computer Science at the University of Málaga. His research interests include Model-based Software Engineering (MBSE), open distributed processing (ODP) and software quality. Between 1986 and 1995 he was in the Computer Industry, working for Fujitsu and ICL both in Spain (1986-1991) and in the UK (1991-1994). In 1996 he joined the University of Málaga, where he currently conducts research on software modeling and analysis. He leads the ATENEA research group (<http://atenea.lcc.uma.es>) on Software Modeling and Analysis. He has participated in 39 research project (4 European, 1 Iberoamerican, 7 National Projects, 1 PETRI, 1 FEDER, 12 Networks, 5 Integrated Actions, 4 Special Actions, 5 regional projects), being the IP of 14 of them. He is involved in several standardization activities within AENOR, ISO, ITU-T and the OMG, and having being the Spanish representative at IFIP TC2 and ISO SC7, being co-editor of ISO/IEC standard 19793, ITU-T X.906 (UML4ODP) and of the revised version of RM-ODP (ISO/IEC 10746, Parts 2 and 3, ITU-T X.902 and ITU-T X.903). He is the leader of AEN/CTN 71 Working Group on "Techniques for the specification of IT Systems" (GT19) at AENOR. He has served as reviewer for CCSDS (Consultative Committee for Space Data Systems) and for NASA/JPL on the application of RM-ODP standards to the RASDS (Reference Architecture for Space Data Systems) y Future Mars Network Architecture (2004-08) projects. He is also a certified Technical Expert at ENAC (Entidad de Acreditación Nacional), and serves since 2013 as Assessor for the Australian Research Council (ARC). He has organized several international conferences, including ECOOP'02 and TOOLS'10, and has been the General Chair for MODELS 2013 and ECOOP 2017. He will also be the co-chair of CEDI 2020 in Málaga, Spain. He has initiated and organized the International Conference on Model Transformations (ICMT) and several series of international workshops (WODPEC, MDWE, MDI and VAO). He has served as PC Chair of several international conferences (ICMT'08, IDEAS'08, TOOLS Europe 2011, ECMFA'12, QoSA'12 and ICSOC'17), and national ones (JSWEB'08, JISBD'09). He is in the Editorial Board of the Software and Systems Modeling (Sosym) journal and of the Journal of Object Technology (JOT). He was the keynote speaker for ICPE 2011. He has been Vice-President of Postgraduate and Doctoral studies at the University of Málaga (2012-2016), being responsible for all Master and PhD programmes, for the University's Lifelong-Learning (LLL) and Continuing Education (CE) courses, and for the University's MOOCs program. Between 2014 and 2018 he has been the President of the Spanish Society on Software Engineering (SISTEDES, www.sistedes.es). Since 2017 he coordinates the Computer Science and Information Technologies (INF) area of the Evaluation and Coordination Sub-division (SCE, formerly ANEP) of the Spanish Research Agency (AEI). Further information about his publications, research projects and tools developed by his research group is available at <http://www.lcc.uma.es/~av>.

EDUCATION

- BsC Mathematics, Universidad de Málaga, 1985
- PhD Informatics, Universidad de Málaga, 1999

PROFESSIONAL EXPERIENCE (Academia)

- Encargado de curso nivel C (Lecturer), Universidad de Málaga 21/10/85 – 30/09/86
- Encargado de curso nivel B (Lecturer), Universidad de Málaga 01/10/86 – 30/09/87
- Prof. Asociado (Part Time Lecturer), Universidad de Málaga 01/10/89 – 01/10/91
- Prof. Asociado (Lecturer), Universidad de Málaga 10/11/95 – 30/09/98
- Prof. Titular Esc. Univ. (Assistant Prof.), Universidad de Málaga 01/10/98 – 04/11/01
- Prof. Titular Univ. (Associate Prof.), Universidad de Málaga 05/11/01 – 16/11/09
- Catedrático Universidad (Full Prof.), Universidad de Málaga 17/11/09 – present

PROFESSIONAL EXPERIENCE (Industry)

- Técnico de Diseño, Fujitsu España S.A. 14/04/86 – 20/10/89
- Jefe de Área Software y Firmware, Fujitsu España S.A. 21/10/89 – 14/07/91
- Products Marketing Manager, ICL PLC, UK 15/07/91 – 15/05/94
- Director de Productos, IngeniA S.A., Spain 16/05/94 – 09/11/95

Participation in EU PROJECTS

- Multi-Paradigm Modelling for Cyber-Physical Systems (MPM4CPS).
EU COST Action number IC1404 http://www.cost.eu/domains_actions/ict/Actions/IC1404.
IP: Prof. Hans Vangheluwe. 25/11/2014 to 24/11/2018
- SeaClouds: Seamless adaptive multi-cloud management of service-based applications EU
Framework Programme (FP7) Ref.: EC-FP7-ICT-610531 <http://www.seaclouds-project.eu/>
IP: Ernesto Pimentel. 1/10/2013 a 30/3/2016
- European Network of Excellence on Aspect-Oriented Software Development (AOSD Europe)
EU Framework Programme (FP6) (Ref.: FP6-IST-004349).
IP: Awais Rachid (Lancaster Univ.) 01/09/2004 to 30/08/2009
- SENSORIA (Software Engineering for Service-Oriented Overlay Computers)
EU Framework Programme (FP6) (Ref.: FET-GC II IST-2005-16004)
IP: Martin Wirsing (LMU) 1/9/2005 to 31/12/2009 (Associated Researcher from 7/11/2008,
http://sensoria.fast.de/index.php?option=com_content&task=view&id=64&Itemid=98)

FUNDED PROJECTS (Last 10 years) – as IP

- POLYCIMS: Un marco dirigido por modelos para el diseño e integración de Sistemas Inalámbricos de Gestión de Infraestructuras Críticas. MICINN (TIN2014-52034-R). 2015 to 2019. **179.300 €**
- Sistemas Inalambricos de Gestión de Información Crítica. Spanish MICINN (TIN2011-23795). 1/1/2012 to 31/12/2014. **106.800 €**
- MDD-MERTS: Diseño y Monitorización Dirigido por Modelos de Sistemas Empotrados y de Tiempo Real. Spanish MICINN (TIN2008-03107). 1/1/2009 to 31/6/2012. **268.620 €**
- VIASCO: Visualización de anomalías en aplicaciones software basadas en componentes. Spanish PETRI (PET2006-0682-00). 05/12/2007 to 5/12/2009. **97.644€**
- MOVIS: Modernización y visualización de sistemas de información complejos. Junta de Andalucía. (P07-TIC-03184). 01/02/2008 to 31/1/2012 **297.668,08€**
- VILMA: VisuaLización y Medición de la cAlidad del proceso, proyecto y producto software. Junta de Castilla-La Mancha. 01-04-2011 to 31-03-2013. **140.000€**
- IVISCUS: Indicadores para la visualización de la calidad en uso de sistemas software. Junta de Castilla-La Mancha. (PAC08-0024-5991). 01/02/2008 to 31/1/2012. **166.600€**
- PICASSO: Propuesta Integrada para la CAalidad de Sistemas Software. Junta de Andalucía. Proyecto de Excelencia. (P06-TIC-02250) 01/01/2007 to 31/12/2010. **250.000€**

SOFTWARE TOOLS

- Behavioral Specification of models (e-Motions)
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/E-motions
- MagicDraw plugin for ODP:
http://www.uco.es/~in1rosaj/tool_mdplugin.html
- Choreography of ATL model transformations (Wires*)
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/Wires*
- UML and UWE model synchronization and change propagation (reSynch)
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/reSynch
- Visualización de anomalías de diseño en aplicaciones basadas en componentes (VIASCO)
<http://viasco.lcc.uma.es/> .
- Simulación de Modelos de Redes de Colas (xQNM)
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/xQNM
- Tracts tool
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/Tracts
- Tracts constraint matcher
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/Tracts-ATL
- LinTra – A Concurrent Model Transformation Platform
http://atenea.lcc.uma.es/index.php/Main_Page/Resources/LinTra

PATENTS

- **Where2Publish (W2P)** Coral Calero, M. Ángeles Moraga, Antonio Vallecillo, Manuel Fernández Bertoa. Número de asiento registral: 00/2014/1264. País: España. Núm. solicitud: CR-42-14. 20/02/2014,13:00

RESEARCH MANAGEMENT

- Assessor, Australian Research Council (<http://arc.gov.au/>), 2013-
- Coordinador AEI (former ANEP) área INF, 2017-. Adjunto ANEP área TIN, 2006-09
- Director del Centro Internacional de Posgrado y Doctorado, UMA. (Feb. 2012-Feb. 2016)
- Experto Técnico, ENAC (www.enac.es) 2014-

SELECTED PUBLICATIONS (JCR Journals – Last 5 years)

- L. Burgueño, J. Boubeta-Puig, A. Vallecillo. "Formalizing Complex Event Processing Systems in Maude". *IEEE Access* 6(1):23222-23241, 2018.
- F. Hilken, L. Burgueño, M. Gogolla, A. Vallecillo. "Testing Models and Model Transformations using Classifying Terms". *Software and Systems Modeling (Sosym)*, 17(3):885-912, 2018.
- L. Burgueño, M. Wimmer, A. Vallecillo. "A Linda-based Platform for the Parallel Execution of Out-place Model Transformations". *Information and Software Technology* 79:17-35, 2016.
- L. Burgueño, J. Troya, M. Wimmer, A. Vallecillo. "Static Fault Localization in Model Transformations". *IEEE Transactions on Software Engineering* 41(5): 490-506, 2015.
- J. Troya, A. Vallecillo. "Specification and Simulation of Queuing Network Models using Domain-Specific Languages". *Computer Standard & Interfaces* 36(5):863-879, 2014.
- H. Kilov, P. Linington, J.R. Romero, A. Tanaka, A. Vallecillo. "The Reference Model of Open Distributed Processing: Foundations, Experience and Applications" *Computer Standard & Interfaces* 35(3):247-256, 2013
- J. Troya, A. Vallecillo, F. Durán, S. Zschaler. "Model-Driven Performance Analysis of Rule-Based Domain Specific Visual Models" *Information and Software Technology* 55(1):88-110, 2013.
- J.R. Romero, J.I. Jaén, A. Vallecillo. "A Tool for the Model-Based Specification of Open Distributed Systems". *The Computer Journal*, 56 (7): 793-818, 2013.

SELECTED PUBLICATIONS (non-indexed JOURNALS – Last 5 yers)

- Antonio Vallecillo. "Los siguientes 10 años de Ingeniería de Software: Retos y Oportunidades". *Novática*, No. 245, pp.90-96, Dec. 2015.
- Antonio Vallecillo. "On the Industrial Adoption of Model Driven Engineering – Is your company ready for MDE?" *International Journal of Information Systems and Software Engineering for Big Companies (IJISEBC)* 1(1):52-68, 2015.

SELECTED PUBLICATIONS (Guest editorials – Last 5 years)

- Antonio Vallecillo, Juha-Pekka Tolvanen. Guest editorial to the special issue on "modelling-foundations and applications". *Software and System Modeling (SoSym)* 14(1): 339-341 (2015).
- Barbora Bůhnova, Antonio Vallecillo, Nenad Medvidovic, Magnus Larsson, Javier López, Jorge Cuellar. Guest editorial to the Special Issue on Component-Based Software Engineering and Software Architecture Science of Computer Programming 90:67-70, 2014.
- Judith Bishop y Antonio Vallecillo. Special Section with best papers of TOOLS Europe 2011. *Journal of Object Technology*. 2012. http://www.jot.fm/contents/issue_2012_04/tools2011.html
- Geert-Jan Houben, Nora Koch, Gustavo Rossi, A. Vallecillo. "Guest Editorial to the Theme Section on Model-Driven Web Engineering", *Software and Systems Modeling (SoSym)*, 12:11-13, 2013.
- G. Sagardui, A. Vallecillo. Special issue on *IEEE America Latina Transactions*, with selected papers from JISBD 2009. Vol. 8, No. 2, Abril 2010.
- A. Vallecillo. Sección especial en la revista *Novática* con artículos seleccionados de las XIV Jornadas de Ingeniería del Software y Bases de Datos (JISBD 2009). 2010.
- J. Grey, A. Pierantonio, A. Vallecillo. Special issue on "Theory and Practice on Model Transformation", *Software and Systems Modeling (SoSym)*, 2009.

SELECTED PUBLICATIONS (Books)

- Peter F. Linington, Zoran Milosevic, Akira Tanaka, Antonio Vallecillo. "Building Enterprise Systems with ODP. An Introduction to Open Distributed Processing" Chapman & Hall/CRC Press. September 2011. ISBN: 978-1-4398-6625-2. <http://theodpbook.lcc.uma.es>
- Jesús García Molina, Félix García López, Vicente Pelechano Ferragud, Juan Manuel Vara Mesa, Antonio Vallecillo, Cristina Vicente-Chicote (Eds.) "Desarrollo de Software Dirigido por Modelos: Conceptos, Métodos y Herramientas", RAMA, 2013. ISBN 978-84-9964-215-4.
- A. Cechich, M. Piattini, A. Vallecillo (Eds). "Component-Based Software Quality: Methods and Techniques" LNCS 2693, Springer-Verlag, June 2003. (ISBN: 3-540-40503-8, ISSN: 0302-9743)
- R. Guerequeta, A. Vallecillo. "Técnicas de Diseño de Algoritmos". SPICUM, 2000. (2 editions)

SELECTED PUBLICATIONS (conferences)

- More than 100 papers in top-notch international conferences and workshops.

SUPERVISED PHD THESIS

- Loli Bruguero "On the quality properties of Model Transformations: Performance and Correctness". (co-supervised with Manuel Wimmer) Universidad de Málaga, ETSI Informática. 28/4/2016 (Doctorado Internacional)
- Javier Troya "On the Model-Driven Performance and Reliability Analysis of Dynamic Systems." Universidad de Málaga, ETSI Informática 12/2/ 2013 (Doctorado Internacional)
- Nathalie Moreno. "WEI: Integración de aplicaciones externas en sistemas Web mediante modelos" Universidad de Málaga, ETSI Informática. 7/5/2012
- José Eduardo Rivera. "On the semantics of Real Time Domain Specific Languages" (co-supervised with F. Durán). Universidad de Málaga, ETSI Informática. 15/10/2010 (Doc. Europeo)
- José Raúl Romero. "Representación y formalización de especificaciones computacionales". Universidad de Málaga, ETSI Informática. 2/10/2007
- Manuel Fernández Bertoa. "Medidas de usabilidad para componentes software" Universidad de Málaga, ETSI Informática. 5/4/2006
- Luis F. Iribarne. "Un modelo de mediación para el desarrollo de software basado en componentes COTS". (co-supervised with J.M. Troya) Universidad de Almería. 14/7/2003

COMMUNITY SERVICE

- President of the Spanish Society of Software Engineering and Software Development Technologies (SISTEDES, www.sistedes.es)
- Steering Committee member of ECOOP (AITO), STAF, ICMT, TOOLS, ECMFA, IDEAS, JCIS, and JSWEB conferences
- AITO Secretary (www.aito.org) 2008-2010.
- General Chair of ECOOP 2017, Barcelona, Spain
- General Chair of IEEE/ACM MODELS 2013, Miami, Florida, US
- PC Chair of ICSOC 2017, ECMFA 2012, QoSA 2012, TOOLS Europe 2011, JISBD 2009, JSWEB 2008, ICMT 2008, IDEAS 2008
- Editorial Board Member of the Software and Systems Modeling (SoSym) journal (<http://www.sosym.org/>), Journal of Object Technology (<http://www.jot.fm/>) (Special Section Editor, 2009-13), and Journal of Software (<http://www.academypublisher.com/jsw/>) (2005-10)
- Spanish representative at IFIP TC2 (2011-18).
- Organizing Chair of TOOLS 2010 and ECOOP 2002
- Panels Chair of MODELS 2017, Austin, Texas.
- Tutorial Chair of MODELS 2012, Innsbruck, Austria
- Demo Chair of ICWE 2009
- Workshop Chair of EDOC 2006, EDOC 2008
- Publicity Chair of ICWE 2007
- Track/Workshop Organizer: VAO 2013@MODELS, MDI 2010@MODELS, MDWE 2010@ICWE, WODPEC 2010@EDOC, MDWE 2009@ICWE, MDWE 2008@MODELS, WODPEC 2007@EDOC, MT 2007@SAC, MDWE 2006@ICWE, MT2006@SAC, WODPEC 2005@EDOC, MDWE 2005@ICWE, WODPEC 2004@EDOC, WOI 2000@ECOOP, WOI 1999@ECOOP
- Member of jury/External reviewer of 40 PhD defenses in Spain, and 16 in other countries (UK, Canada, Italy, Netherlands, Australia, Germany, Belgium)
- Editor of International Standards on RM-ODP: ISO/IEC 10746-2:2009, 10746-3:2009 and 19793:2015 (ITU-T X.902, X.903, X.906, resp.)

AWARDS

- 4 Best Paper Awards (ICWE 2005, ICMT 2010, JISBD 2011, MODELS 2015)
- Ganador provincial y finalista nacional de la Olimpiada Matemática, 1980 (awarded by the Spanish Mathematics Society with a grant for the duration of the bachelor in Mathematics)

FURTHER INFO/REFERENCES

- 3 Research Sexenios (1996-2001, 2002-07, 2008-13), 5 Lecturing Quinquenios (-2107).
- Total cites: 1416 (WoS), 1553 (Scopus), 4682 (Google Scholar)
- h-index: 15 (WoS), 25 (Scopus), 38 (Google Scholar)
- 42 JCR journal papers (Q1: 7 | Q2: 13 | Q3: 19 | Q4: 3); 13 non-JCR journal papers.
- 47 top-notch conference papers (3 awarded as best paper) (A+: 4 | A: 5 | B: 25 | C: 11)
- See also the entries about my projects and publications at [DBLP](#), [Google Scholar](#), [Microsoft Academic Search](#), [ACM DL](#), [ArnetMiner](#) or [Researchgate](#).
- Check the information at my LinkedIn profile: <https://www.linkedin.com/in/avallecillo>
- Check the information from my ORCID: [0000-0002-8139-9986](https://orcid.org/0000-0002-8139-9986), or Scopus: AuthorID [6601908160](#)
- See my complete CV, downloadable from <http://www.lcc.uma.es/~av>

Málaga, September 2018