

# Abelardo Pardo

Electrical Engineering J03, The University of Sydney 2006 NSW Australia

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## 1. Education

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- Ph.D. in Computer Science, University of Colorado at Boulder 1997  
Dissertation: Automatic Abstraction Techniques for Formal Verification of Digital Systems
- BSc, MSc, Computer Science, Polytechnic University of Catalonia, Spain 1991

## 2. Professional Appointments

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- Senior Lecturer, School of Electrical and Information Eng., The University of Sydney 2015 - present
  - Director of the Learning and Affect Technologies (LATTE) laboratory.
  - Research interest: learning analytics, software for collaborative and personalized learning, technology to improve the student experience and teaching practice.
- Lecturer, School of Electrical and Inf. Engineering, The University of Sydney 2012 - 2014
  - Co-director of the Learning and Affect Technologies (LATTE) laboratory.
- Associate Professor, Department of Telematic Eng., University Carlos III of Madrid 2002 -2012
- Member of the Gradient Research Lab
- Assistant Professor, Department of Telematic Eng., University Carlos III of Madrid 2000 -2002
- Member of the Gradient Research Lab
- Adjunct Professor, Department of Electrical Engineering, Tufts University, USA Fall 1999
- Member of research staff, Mentor Graphics Inc., USA 1997 -2000
- Member of research staff, AT&T Bell Laboratories, USA. Summer 1994
- Member of research staff, AT&T Bell Laboratories, USA. Summer 1993

## 3. Research Grants

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### Current Grants

- Integrated STEM activities in Indigenous and Low SES Communities
  - Principal investigator: Abelardo Pardo
  - Microsoft Inc.
  - Duration: 2016
- Development of an analytics package to integrate with WorkspaceX and other personalised learning platforms
  - Principal investigator: Abelardo Pardo
  - Telstra, Australia
  - Duration: 2015
- Embedded System Design Challenge
  - Principal investigators: Abelardo Pardo
  - Australian Maths and Science Partnership Program, Department of Education, Australian Government.
  - Duration: 2015 - 2016.
- Enabling connected learning via open source analytics in the wild: Learning Analytics beyond the LMS
  - Principal investigators: Kirsty Kitto
  - Office for Learning and Teaching, Australia
  - Duration: 2015 - 2016.
- Tracking Transition Project

- Principal investigator: Abelardo Pardo
- The Children's Hospital at Westmead
- Duration: 2013-2015

### **Completed Grants**

- Using video annotation software to develop student self-regulated learning. Principal investigators: Prof. Shane Dawson, Abelardo Pardo. Office for Learning and Teaching, Australia Duration: 2013 - 2015.
- Radical transformation: re-imagining engineering education through the classroom in a global learning partnership. Principal investigator: A/Prof Carl Reidsema. Office for Learning and Teaching, Australia. Duration: 2013 - 2015.
- Research and development for Elearning Technologies in the Madrid Region. Principal investigator: Prof Carlos Delgado Kloos. National project, Spanish Government. Duration: 2010 - 2013.
- Adaptation of learning scenarios in the .LRN platform based on Contextualized Attention Metadata (CAM). Principal investigator: Abelardo Pardo. International project to capture information about student behavior and adapt learning scenarios. Duration: 2010 - 2011.
- Learn3: Towards Learning of the Third Kind. Principal investigator: Prof. Carlos Delgado Kloos. Project to deploy 3D animations, semantic web technologies and orchestration technology in real-life learning experiences. Duration: 2009 - 2011.
- Competency Development in ICT Programs: Alignment of Teaching-Learning Methodologies with Assessment. Principal investigator: Davinia Hernandez Leo. National project to analyze how to align assessment with competencies in ICT related Degrees. Duration: 2010 - 2010.
- Virtual Spain. Principal investigator: Prof. Carlos Delgado Kloos. National project, Spanish Government. Duration: 2008 - 2011.
- Flexo: Development of adaptive and accessible learning scenarios with open source systems. Principal investigator: Abelardo Pardo. National project to design and deploy a personal learning assistant providing access to a federated set of courses hosted in heterogeneous learning management systems. Duration: January 2008 - March 2010.
- ICOPER: Interoperable Content for Performance in a Competency-driven Society. Principal investigator: Prof. Carlos Delgado Kloos. European Community eContentplus Programme. International project to detect and promote best practices among European educational institutions. Duration: September 2008-March 2011
- Generation of semantic annotations in elearning resources. Principal investigator: Prof. Carlos Delgado Kloos. Regional project. Madrid Region. Duration: 2007 – 2008.
- MosaicLearning: Mobile, open-source, standards-based and secure context-aware, individualized, collaborative eLearning. Principal investigator. Project to use mobile devices combined with open source tools to provide individualized and collaborative learning experiences. Duration: January 2006 - December 2008.
- ELANE: European and Latin American New Education. Principal investigator: Prof. Carlos Delgado Kloos. Project to deploy learning experiences in challenging scenarios in Latin America. Duration: November 2003 - May 2007.
- GENIUS: Generic E-Learning Environments and Paradigms for the New Pan-European Information and Communication Technologies Curricula. Principal investigator: Prof. Carlos Delgado Kloos. International project to define the most effective paradigms for the ICT curricula in Europe. Duration: Nov. 2001 - Sept. 2003.
- SIEMPRE: Intelligent and extensive tracking to model learning practices. Principal investigator: Prof. Carlos Delgado Kloos. National project, Spanish Government. Duration: Nov. 2003 - May 2007

- Integrated Distant Learning System. Principal investigator: Prof. Carlos Delgado Kloos. National project, Spanish Government. Duration: Jan. 2006 - March 2007

## 4. Teaching Duties

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### Graduate Courses

- Software Quality Engineering, Master of Engineering, The University of Sydney, 2013-2015.
- Platforms for Networked Communities, Master in Telematic Engineering, University Carlos III of Madrid, 2006 - 2012. Use of collaborative learning to support and encourage creativity in engineering projects. Intense use of technology to support collaborative learning.
- Scientific Reasoning and Writing, Master online in Elearning and Social Networks, International University of La Rioja, 2011 - 2012. Use of social network tools to improve student engagement.
- Development of Scientific Publications and Presentations, Master online in Educational Neuropsychology, International University of La Rioja, 2012. Use of social network tools to improve student engagement.
- Elearning Tools, Master in Elearning Production and Management, University Carlos III of Madrid, 2008 - 2010. Dean of studies.
- Tools and Services on Last Generation Web Platforms. Master in Telematic Engineering. University Carlos III of Madrid, 2004 - 2005.
- Design of Ecommerce sites. Master in Electronic Commerce. University Carlos III of Madrid, 2000 – 2001.
- Electronic payment and security. Master in Network Centered Computing. University of Reading, United Kingdom, 2000.

### Master Theses (Recent)

- Analysis of data from an active learning environment using machine learning. Imran Khan, 2015.
- Improved bug triage system. Carlos Valencia. Sept. 2011.
- Bringing Accessibility to IMS Learning Design RTEs. Derick Leony. Sept. 2010.
- A Peer Review Method for Students. Aurora Avils. May 2010.

### Doctoral Theses (Recent)

- Orchestration of learning activities through the integration of third-party services in IMS Learning Design. Luis de la Fuente Valentín, 2011.
- Sequencing Learning Activities for Reuse and Automatic-organization in Intelligent Tutoring, Sergio Gutiérrez Santos, 2007.
- Adaptive methodology for collaborative evaluation processes in learning environments. Raquel M. Crespo García, 2007.
- EPM: A model for the characterization and diagnosis of educational processes. M. Carmen Fernández Panadero, 2004.

### Undergraduate Studies

- Fundamentals of Computer Systems, Bachelor of Engineering, The University of Sydney, 2013-present. Coordinator and lecturer. Course design includes flipped learning, active learning and the use of learning analytics to provide real-time feedback to the students.
- Systems Architecture, Third semester, University Carlos III of Madrid, 2009 - 2012. Coordinator and lecturer. Responsible for the course design and deployment. Obtained university distinction for the student evaluation results in all course editions. Active learning, collaboratively methodology. Intensive use of technology to support students and instructors.

- Computer Architecture, Second semester, University Carlos III of Madrid, 2000 - 2007. Primary instructor. Responsible for the course design and deployment. Obtained university distinction for the student evaluation results in all course editions.
- Operating Systems, Seventh semester, University Carlos III of Madrid, 2001 - 2008. Coordinator and lecturer. Responsible for the course design and deployment. Use of digital board, class recording and streaming. Obtained university distinction for the student evaluation results in several course editions.
- Computer Fundamentals, Third semester, University Carlos III of Madrid, 2002 -2008. Published in major conference. Obtained university distinction for the student evaluation results in several course editions.
- Concurrent Systems, Sixth semester, University Carlos III of Madrid, 2000 - 2001.
- System programming, Second semester, University Carlos III of Madrid, 2000 - 2001.
- Advanced technologies in telematic applications. Fourth semester, University Carlos III of Madrid, 2001 - 2003.
- Operating Systems, Seventh semester, Tufts University, Fall 1999.

## 5. Scholarship Work

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### Publication Impact (Obtained with Harzing's PoP, December 2015)

Papers:	165	Cites/Papers:	18.34	h-index:	21
Citations:	3026	Cites/author:	880.51	g-index:	53
Years:	24	Papers/author:	57.94	hI-norm:	14
Cites/year:	126.08	Authors/paper:	3.35	hI, annual:	0.568

### Edited Books

- [1] A. Pardo and S. Teasley, Eds., *Proceedings of the Fourth International Conference on Learning Analytics And Knowledge*. Indianapolis, IN, USA: ACM New York, NY, USA, 2014.
- [2] C. Delgado Kloos and A. Pardo, Eds., *EDUTECH: Computer-aided design meets computer-aided learning*, vol. 12, no. 2. Boston: Springer, 2004.

### Book Chapters

- [1] A. Pardo and S. Dawson, "Learning Analytics. How can Data be used to Improve Learning Practice?" in *Measuring and visualising learning in the information-rich classroom*, P. Reimann, S. Bull, M. Kickmeier-Rust, and B. Wasson, Eds. Routledge, 2015, pp. 41–55.
- [2] A. Pardo, "Designing Learning Analytics Experiences," in *Learning Analytics. From Research to Practice*, J. A. Larusson and B. White, Eds. Springer, 2014, pp. 15–38.
- [3] V. A. Romero Zaldívar, D. Burgos, and A. Pardo, "Meta-rule based Recommender Systems for Educational Applications," in *Educational Recommender Systems and Technologies: Practices and Challenges*, O. C. Santos and J. G. Boticario, Eds. IGI Publishing, 2012, pp. 211–231.
- [4] L. De-la-Fuente-Valentín, M. Pérez-Sanagustín, P. Santos, D. Hernández-Leo, A. Pardo, C. Delgado Kloos, and J. Blat, "System orchestration support for a collaborative blended learning flow," in *Intelligent Adaptation and Personalization Techniques in Computer-Supported Collaborative Learning*, vol. 408, T. Daradoumis, S. N. Demetriadis, and F. Xhafa, Eds. Springer, 2012, pp. 29–46.
- [5] S. Gutiérrez-Santos and A. Pardo, "Swarm-based techniques in e-learning: methodologies and experiences," in *Advances in E-Learning: Experiences and Methodologies*, Francisco José García-Peñalvo, Ed. IGI Publishing, 2008, pp. 199–212.

- [6] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Standards in Asynchronous E-Learning Systems," in *Encyclopedia of Internet Technologies and Applications*, Information Science Reference, 2007, pp. 568–574.
- [7] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Swarm Intelligence Applications for the Internet," in *Encyclopedia of Internet Technologies and Applications*, IGI Global, 2007, pp. 600–605.

### Refereed Journal Articles

- [1] I. Estévez-Ayres, C. Alario-Hoyos, M. Pérez-Sanagustín, A. Pardo, R. M. Crespo-García, D. Leony, H. A. Parada G., and C. Delgado-Kloos, "A methodology for improving active learning engineering courses with a large number of students and teachers through feedback gathering and iterative refinement," *International Journal of Technology and Design Education*, vol. 25, no. 3, pp. 387–408, Aug. 2015.
- [2] L. De-la-Fuente-Valentín, A. Pardo, F. López Hernández, and D. Burgos, "A Visual Analytics Method for Score Estimation in Learning Courses," *Journal of Universal Computer Science*, vol. 21, no. 1, pp. 134–155, 2015.
- [3] D. Leony, P. J. Muñoz-merino, J. A. Ruipérez-Valiente, A. Pardo, and C. Delgado Kloss, "Detection and Evaluation of Emotions in Massive Open Online Courses," *Journal of Universal Computer Science*, vol. 21, no. 5, pp. 638–655, 2015.
- [4] P. J. Muñoz-Merino, C. Delgado Kloos, M. Muñoz-Organero, and A. Pardo, "A software engineering model for the development of adaptation rules and its application in a hinting adaptive e-learning system," *Computer Science and Information Systems*, vol. 12, no. 1, pp. 203–231, 2015.
- [5] M. Liu, R. A. Calvo, A. Pardo, and A. Martin, "Measuring and Visualizing Students' Behavioral Engagement in Writing Activities," *IEEE Transactions on Learning Technologies*, vol. 8, no. 2, pp. 215–224, 2015.
- [6] A. Pardo and G. Siemens, "Ethical and privacy principles for learning analytics," *British Journal of Educational Technology*, vol. 45, no. 3, pp. 438–450, Apr. 2014.
- [7] L. P. Macfadyen, S. Dawson, A. Pardo, and D. Gašević, "Embracing Big Data in Complex Educational Systems: The Learning Analytics Imperative and the Policy Challenge," *Research & Practice in Assessment*, vol. 9, no. Winter, pp. 17–28, 2014.
- [8] L. De-la-Fuente-Valentín, M. Pérez-Sanagustín, D. Hernández-Leo, A. Pardo, J. Blat, and C. Delgado Kloos, "Technological support for the enactment of collaborative scripted learning activities across multiple spatial locations," *Future Generation Computer Systems*, vol. 31, May 2014.
- [9] A. Pardo and S. Teasley, "Learning Analytics Research, Theory and Practice: Widening the Discipline," *Journal of Learning Analytics*, vol. 1, no. 3, pp. 4–6, 2014.
- [10] J. Arias Fisteus, A. Pardo, and N. Fernández García, "Grading multiple choice exams with low-cost and portable computer-vision techniques," *Journal of Science Education and Technology*, vol. 22, no. 4, pp. 560–571, 2013.
- [11] D. Hernández-leo, V. Moreno, J. M. Doderó, A. Pardo, M. C. Romero-Ternero, Y. Dimitriadis, S. Member, J. I. Asensio-pérez, D. Hernandez-Leo, and V. M. Oliver, "Applying Recommendations to Align Competences, Methodology and Assessment in Telematics, Computing and Electronic Engineering Courses," *IEEE Journal of Latin-American Learning Technologies*, vol. 8, no. 1, pp. 15–22, Feb. 2013.

- [12] D. Leony, H. A. Parada Gélvez, P. J. Muñoz-Merino, Abelardo Pardo, and C. Delgado Kloos, "A Generic Architecture for Emotion-based Recommender Systems in Cloud Learning Environments," *Journal of Universal Computer Science*, vol. 19, no. 14, pp. 2075–2092, 2013.
- [13] L. De-la-Fuente-Valentin, A. Pardo, and C. Delgado Kloos, "Addressing drop-out and sustained effort issues with large practical groups using an automated delivery and assessment system," *Computers & Education*, vol. 61, no. February, pp. 33–42, 2013.
- [14] D. Leony, P. J. Muñoz-Merino, A. Pardo, and C. Delgado Kloos, "Provision of awareness of learners' emotions through visualizations in a computer interaction-based environment," *Expert Systems with Applications*, Mar. 2013.
- [15] A. Pardo, "Social learning graphs: combining social network graphs and analytics to represent learning experiences," *International Journal on Social Media and Interactive Learning Environments*, vol. 1, no. 1, pp. 43–58, 2013.
- [16] K. Verbert, X. Ochoa, M. Derntl, M. Wolpers, A. Pardo, and E. Duval, "Semi-automatic Assembly of Learning Resources," *Computers & Education*, vol. 59, no. 4, pp. 1257–1272, 2012.
- [17] R. M. Crespo García, A. Pardo, C. Delgado Kloos, K. Niemann, M. Scheffel, and M. Wolpers, "Peeking into the black box: visualising learning activities," *International Journal on Technology Enhanced Learning*, vol. 4, no. 1/2, pp. 99–120, 2012.
- [18] A. Pardo, J. A. Fisteus, and C. Delgado Kloos, "A Distributed Collaborative System for Flexible Learning Content Production and Management," *Journal of Research and Practice in Information Technology*, vol. 44, no. 2, pp. 203–221, 2012.
- [19] D. Hernández-Leo, V. Moreno, J. M. Dodero, A. Pardo, M. C. Romero-Ternero, Y. Dimitriadis, and J. I. Asensio-Pérez, "Aplicación de Recomendaciones para la Alineación de Competencias, Metodología y Evaluación en Asignaturas de Ingeniería Telemática, Informática y Electrónica," *Revista Iberoamericana de Tecnologías del Aprendizaje*, vol. 7, no. 1, pp. 13–20, 2012.
- [20] A. Pardo, "Virtualization Increases Institutional Knowledge of Student Learning Activities," *Educause Online Review*, vol. June, no. July/August 2012, 2012.
- [21] V. A. Romero Zaldívar, A. Pardo, D. Burgos, and C. Delgado Kloos, "Monitoring Student Progress Using Virtual Appliances : A Case Study," *Computers & Education*, vol. 58, no. 4, pp. 1058–1067, 2012.
- [22] C. Delgado Kloos, A. Pardo, M. Muñoz-organero, M. B. Ibáñez, P. J. Muñoz-Merino, C. Fernández-panadero, R. M. Crespo, J. J. García Rueda, L. De La Fuente Valentín, M. Pérez-sanagustín, H. A. Parada G., D. Leony, I. Gutiérrez, and D. Maroto, "Gradient , UC3M," *IE Comunicaciones. Revista Iberoamericana de Informática Educativa*, no. 15, pp. 75–84, 2012.
- [23] A. Pardo, I. Estévez-Ayres, P. Basanta-Val, and D. Fuentes-Lorenzo, "Course Quality Improvement using Mid-semester Feedback," *International Journal on Technology Enhanced Learning*, vol. 3, no. 4, pp. 366–376, 2011.
- [24] I. Gutiérrez Rojas, R. M. Crespo García, D. Leony Arreaga, A. Pardo, and C. Delgado Kloos, "Course Evaluation for Technology Enhance Learning: current status in Europe," *International Journal of Technology Enhanced Learning*, vol. 3, no. 4, pp. 389–402, 2011.
- [25] A. Pardo and C. Delgado Kloos, "SubCollaboration: Large Scale Group Management in Collaborative Learning," *Software: Practice and Experience*, vol. 41, no. 4, pp. 339–465, 2011.

- [26] L. De La Fuente Valentín, D. Leony Arreaga, A. Pardo, and C. Delgado Kloos, "User Identity Issues in Mashups for Learning Experiences using IMS Learning Design," *International Journal of Technology Enhanced Learning*, vol. 3, no. 1, pp. 80–92, 2011.
- [27] L. De-La-Fuente-Valentín, A. Pardo, and C. D. Kloos, "Generic Service Integration in Adaptive Learning Experiences using IMS Learning Design," *Computers & Education*, vol. 57, no. 1, pp. 1160–1170, Jan. 2011.
- [28] D. Leony Arreaga, L. De La Fuente Valentín, A. Pardo, and C. Delgado Kloos, "Adaptación de material educativo guiada por IMS learning design: experiencias con .LRN," *RIED - Revista Iberoamericana de Educación a Distancia*, vol. 13, no. 2, pp. 209–235, 2010.
- [29] A. Pardo and C. Delgado Kloos, "Combining Web 2.0 technology and problem-based learning in a blended learning environment," *International Journal of Continuing Engineering Education and Life-Long Learning*, vol. 19, no. 2/3, pp. 222–231, 2009.
- [30] L. De La Fuente Valentín, A. Pardo, C. Delgado Kloos, J. I. Asensio-Pérez, and Y. A. Dimitriadis, "Modelos de Aprendizaje Colaborativo en Entornos a Distancia con Learning Design: Un Caso de Estudio," *IEEE Revista Iberoamericana de Tecnologías del Aprendizaje*, vol. 4, no. 2, pp. 147–154, 2009.
- [31] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Authoring Courses with Rich Adaptive Sequencing for IMS Learning Design," *Journal of Universal Computer Science*, vol. 14, no. 17, pp. 2819–2839, 2008.
- [32] L. De La Fuente Valentín, Y. Miao, A. Pardo, and C. Delgado Kloos, "A Supporting Architecture for Generic Service Integration in IMS Learning Design," in *Times of Convergence. Technologies Across Learning Contexts*, vol. 5192/2008, Springer-Verlag, 2008, pp. 467–473.
- [33] P. Prieto-Linillos, S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Guaranteeing the Correctness of an Adaptive Tutoring System," in *Adaptive Hypermedia and Adaptive Web-Based Systems*, vol. 5149/2008, Springer, 2008, pp. 329–332.
- [34] S. Gutiérrez-Santos and A. Pardo, "Sequencing in web-based education: Approaches, standards and future trends," *Evolution of Teaching and Learning Paradigms in Intelligent Environment*, vol. 62, no. Studies in Computational Intelligence, pp. 83–117, 2007.
- [35] R. Hernandez, A. Pardo, and C. Delgado Kloos, "Creating and Deploying Effective eLearning Experiences Using .LRN," *IEEE Transactions on Education*, vol. 50, no. 4, pp. 345–351, 2007.
- [36] J. P. Escobedo, L. De La Fuente Valentín, S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Implementation of a Learning Design Run-Time Environment for the .LRN Learning Management System," *Journal of Interactive Media in Education*, vol. 2007, no. 01, 2007.
- [37] C. Delgado Kloos, A. Pardo, M. Muñoz-Organero, and L. De La Fuente Valentín, "E-LANE: an e-learning initiative based on open source as a basis for sustainability," *International Journal of Continuing Engineering Education and Life-Long Learning*, vol. 17, no. 1, pp. 57 – 66, 2007.
- [38] R. M. Crespo García, A. Pardo, and C. Delgado Kloos, "Adaptive Peer Review Based on Student Profiles," in *Intelligent Tutoring Systems*, vol. 4053/2006, Springer, 2006, pp. 781–783.
- [39] R. M. Crespo García, J. P. Somolinos Pérez, A. Pardo, and C. Delgado Kloos, "An Algorithm for Peer Review Matching Using Student Profiles Based on Fuzzy Classification and Genetic Algorithms," in *Innovations in Applied Artificial Intelligence*, vol. 3533, Springer, 2005, pp. 685–694.

- [40] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, “An Adaptive Tutoring System Based on Hierarchical Graphs,” in *Adaptive Hypermedia and Adaptive Web-Based Systems*, vol. 3137, Springer Verlag, 2004, pp. 401–404.
- [41] A. Pardo and G. D. Hachtel, “Automatic abstraction techniques for propositional  $\mu$ -calculus model checking,” in *Computer Aided Verification*, vol. 1254, Springer, 1997, pp. 12–23.
- [42] R. I. Bahar, E. A. Frohm, C. M. Gaona, G. D. Hachtel, E. Macii, A. Pardo, and F. Somenzi, “Algebraic Decision Diagrams and Their Application,” *Formal Methods in System Design*, vol. 10, no. 2–3, pp. 171–206, Apr. 1997.
- [43] R. K. Brayton, G. D. Hachtel, A. L. Sangiovanni-Vincentelli, F. Somenzi, A. Aziz, S.-T. Cheng, S. A. Edwards, S. P. Khatri, Y. Kukimoto, A. Pardo, S. Qadeer, R. K. Ranjan, S. Sarwary, T. R. Shiple, G. Swamy, and T. Villa, “VIS: A system for verification and synthesis,” in *Computer Aided Verification*, vol. 1102/1996, Springer, 1996, pp. 428–432.
- [44] R. K. Brayton, G. D. Hachtel, A. L. Sangiovanni-Vincentelli, F. Somenzi, A. Aziz, S.-T. Cheng, S. A. Edwards, S. P. Khatri, Y. Kukimoto, A. Pardo, S. Qadeer, R. K. Ranjan, S. Sarwary, T. R. Shiple, G. Swamy, and T. Villa, “VIS,” in *Formal Methods in Computer Aided Design*, vol. 1166/1996, Berlin/Heidelberg: Springer Verlag, 1996, pp. 248–256.
- [45] G. D. Hachtel, E. Macii, A. Pardo, and F. Somenzi, “Markovian analysis of large finite state machines,” *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*, vol. 15, no. 12, pp. 1479–1493, 1996.
- [46] K. Ravi, A. Pardo, G. D. Hachtel, and F. Somenzi, “Modular Verification of Multipliers,” in *Formal Methods in Computer-Aided Design*, vol. 1166/1996, Springer Verlag, 1996, pp. 49–63.

#### **Refereed Articles in Premier Conferences**

- [1] R. Martínez-maldonado, A. Pardo, N. Mirriahi, K. Yacef, J. Kay, and A. Clayphan, “The LATUX Workflow : Designing and Deploying Awareness Tools in Technology-Enabled Learning Settings,” in *International Conference on Learning Analytics and Knowledge*, 2015, pp. 1–10.
- [2] A. Pardo, R. A. Ellis, and R. A. Calvo, “Combining Observational and Experiential Data to Inform the Redesign of Learning Activities,” in *International Conference on Learning Analytics and Knowledge*, 2015, pp. 305–309.
- [3] C. Fernández-Panadero, M. Pérez-Sanagustín, A. Pardo, R. M. Crespo-García, and C. Delgado Kloss, “A Framework to Design Educational Mobile-Based Games Across Multiple Spaces,” in *European Conference on Technology Enhanced Learning*, 2015, pp. 1–7.
- [4] A. Pardo, N. Mirriahi, S. Dawson, Y. Zhao, A. Zhao, and D. Gašević, “Identifying Learning Strategies Associated with Active use of Video Annotation Software,” in *International Conference on Learning Analytics and Knowledge*, 2015, pp. 255–259.
- [5] G. Lynch, A. Pardo, and S. Welsh, “Learning Analytics Special Interest Group: Recognising Outstanding Practice in Learning Analytics,” in *Globally connected, digitally enabled. Proceedings ASCILITE 2015*, 2015, p. SP:7.
- [6] D. Y.-T. Liu, T. Rogers, and A. Pardo, “Learning analytics - are we at risk of missing the point?,” in *Globally connected, digitally enabled. Proceedings ASCILITE 2015*, 2015, p. DP:33–DP:36.
- [7] Y. Zhao and A. Pardo, “A Mobile App in the 1st Year Uni-Life: A Pilot Study,” in *Globally connected, digitally enabled. Proceedings ASCILITE 2015*, 2015, p. FP:330–FP:340.



- [8] Y. Zhao, R. Calvo, H. Gunn, K. Steinbek, and A. Pardo, "What We Learned from TransitionMate: A Mobile App Designed to Support Young People with Chronic Illness," in *Proceedings of the 27th Australian Computer-Human Interaction Conference*, 2015.
- [9] M. Liu, R. A. Calvo, and A. Pardo, "Tracer: A tool to measure student engagement in writing activities," in *International Conference on Advanced Learning Technologies*, 2013.
- [10] C. Delgado Kloos, A. Pardo, P. J. Muñoz-Merino, I. Gutiérrez, and D. Leony, "Learning Analytics@UC3M," in *Global Engineering Education Conference (EDUCON)*, 2013, pp. 1232–1238.
- [11] D. Leony, A. Pardo, L. de La Fuente Valentin, D. Sánchez de Castro, and C. Delgado Kloos, "GLASS : A Learning Analytics Visualization Tool," in *International Conference on Learning Analytics and Knowledge*, 2012, no. May, pp. 162–163.
- [12] S. Govaerts, K. Verbert, E. Duval, and A. Pardo, "The Student Activity Meter for Awareness and Self-reflection," in *ACM SIGCHI International Conference on Human Factors in Computing Systems*, 2012, pp. 869–884.
- [13] M. Scheffel, K. Niemann, D. Leony, A. Pardo, H. Schmitz, M. Wolpers, and C. Delgado Kloos, "Key Action Extraction for Learning Analytics," in *European Conference on Technology Enhanced Learning*, 2012, pp. 320–333.
- [14] C. Delgado Kloos, R. M. Crespo García, C. Fernández-Panadero, M. B. Ibáñez, M. Muñoz-Organero, and A. Pardo, "m-Learning will Disrupt Educational Practices," in *IEEE Global Engineering Education Conference (EDUCON)*, 2012, pp. 1–6.
- [15] V. A. Romero Zaldívar, R. M. Crespo García, D. Burgos, C. Delgado Kloos, and A. Pardo, "Automatic Discovery of Complementary Learning Resources," in *Proceedings of the European Conference on Technology Enhanced Learning. LNCS Vol. 6964*, 2011, pp. 327–340.
- [16] A. Pardo and C. Delgado Kloos, "Stepping out of the box. Towards analytics outside the Learning Management System," in *International Conference on Learning Analytics*, 2011, pp. 163–167.
- [17] C. Delgado Kloos, C. Fernández-Panadero, M. B. Ibáñez, M. Muñoz, and A. Pardo, "Towards Parallel Educational Worlds," in *EDUCON Global Engineering Education Conference*, 2011, pp. 1–6.
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- [35] R. M. Crespo García, J. Villena Román, and A. Pardo, "Peer review to improve artificial intelligence teaching," in *Frontiers in Education Conference*, 2006, pp. 3–8.
- [36] P. Prieto-Linillos, S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, "Sequencing Parametric Exercises for an Operating System Course," in *Artificial Intelligence Applications and Innovations. IFIP International Federation for Information Processing, Volume 204/2006*, Springer, 2006, pp. 450–458.

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### **Invited Talks**

- [1] Invited Seminar at UNSW Learning Analytics & Data Science in Education Research Group, “Videos in the curriculum – What does the research tell us?” 2015.
- [2] Panel discussion at EduTECH, “Leveraging data for strategic advantage.” 2015.
- [3] Invited talk at the Digital Education Show Asia, “Will Learning Analytics Transform Higher Education?” Kuala Lumpur, Malaysia, 2015.
- [4] U. Invited Seminar at the Faculty of Engineering and IT, “Technology for Active and Personalised Engineering Education.” 2015.
- [5] Invited panel discussion at EduTECH Higher Ed, “Leveraging Data for Strategic Advantage.” 2015.
- [6] Invited seminar at Charles Sturt University, “Using Learning Analytics for Student Success.” 2015.
- [7] Invited talk at ASCILITE Webinars, “Designing Flipped Classrooms.” 2015.
- [8] Invited talk at Blended Learning Conference, “Leveraging Data on Engagement and Effectiveness of Course Design.” 2015.
- [9] Invited talk at Queensland University of Technology, “Using data to support active learning experiences.” 2015.
- [10] Gest speaker at the LINK Research Lab at the University of Texas Arlington, “Connecting Pedagogical Intent with Analytics in a Flipped Classroom.” Arlington, TX, USA, 2014.
- [11] Invited talk at the IARU EdTech Horizons Workshop, “Analytics for decision making in Learning Environments.” 2014.
- [12] Invited talk at EduTECH (together with Shane Dawson), “Learning Analytics: What capacities do IT departments need in order to cope with complexities and uncertainties and how can the university leadership team best support them.” 2014.
- [13] Workshop (co-facilitated with Negin Mirriahi) at University of New South Wales, “Flipping your classroom. Where to start.” Sydney, Australia, 2014.
- [14] Invited workshop at the Institutional Strategies for Blended Learning, “How to design a scalable flipped classroom.” 2014.
- [15] Invited Lecture at Taylor University, “Learning and Behavioral Analytics. From concept to reality.” Kuala Lumpur, Malaysia, 2014.
- [16] Invited talk at the 1st International Forum on Big Data Analysis for Learning Improvement, “The use of data and analytics to guide the improvement of learning experiences.” Seoul, Korea, 2014.
- [17] Invited talk at University of South Australia, “How to deploy a Flipped Classroom.” 2014.

- [18] Invited Workshop (co-facilitated with Negin Mirriahi) at the University of Adelaide, “Flipping your classroom. Where to start.” Adelaide, South Australia, 2014.
- [19] Invited presentation at the Learning and Teaching Forum University of New South Wales, “Using Learning Analytics to Personalize a Learning Experience.” Sydney, Australia, 2014.
- [20] Invited talk at the Universidad Complutense de Madrid, “Using Learning Analytics to deploy a Flipped Classroom.” Madrid, Spain, 2014.
- [21] Invited talk at Universidad Internacional de La Rioja, “Analítica del aprendizaje en entornos online.” Madrid, Spain, 2014.
- [22] Invited talk at the UNESCO Chair Scalable Digital Education for All, “Analítica del aprendizaje para el escalado de la participación de los estudiantes.” Madrid, Spain, 2014.
- [23] Invited lecture at the Massive Online Open Course on Learning Analytics and Knowledge, “Practical privacy issues around Learning Analytics.” 2013.
- [24] Invited talk at the Workshop on Harnessing Unobtrusive Sensing to Understand Human Behaviour for Lifelong Goals, “Learning Analytics: Sensing and making sense of Learning Activities.” The university of Sydney, Australia, 2013.
- [25] Invited talk at the Seminar on the Future of MOOCs and Digital Libraries, “Pushing the MOOC envelope with Learning Analytics.” Fukuoka, Japan, 2013.
- [26] Invited talk at the Sydney Teaching Colloquium, “Learning Analytics Data-based decision making in learning environments.” 2013.
- [27] Invited talk at the Blended Learnign Conference, “Using Learning Analytics to help flip the classroom.” 2013.
- [28] Invited talk at CUBEnet and the future of Biomedical Education, “How to use e-analytics when big is not so big.” 2013.
- [29] Invited talk at the Seminar The Sciences and Technologies of Learning, “Using Learning Analytics to Help Flip the Classroom.” University of Technology Sydney, Australia, 2013.
- [30] Invited talk at the ASCILITE Webinar series, “Using technology to support the flipped classroom.” 2013.
- [31] Invited talk at the Medicine and health E-learning network, “Learning Analytics in Medical Education.” 2013.
- [32] Keynote presentation at the International Conference on Learning Analytics and Knowledge, “Bridging the Middle Space with Learning Analytics.” Leuven, Belgium, 2013.
- [33] Invited talk at the University Analytics Forum, “Ethics and Privacy in Learning Analytics.” 2013.
- [34] Invited talk at National ICT Australia (NICTA), “Behavioral analytics. Observe, process, and act.” Sydney, Australia, 2012.
- [35] Invited talk at the Workshop on Learning Analytics and Linked Data, “Extending Course Level Learning Analytics with Linked Data.” Vancouver, Canada, 2012.
- [36] Invited lecture at the Joint European Summer School on Technology Enhanced Learning, “Let me intervene. Influencing a learning environment through analytics.” Estoril, Portugal, 2012.
- [37] Invited talk at the EMadrid Excellence Network, “Let me see... Analytics in learning environments.” Madrid, Spain, p. pages, 2012.

- [38] Invited lecture at the Master in Information and Communication Technology, “What if we could observe all events in a learning environment?” University of Valladolid, Valladolid, Spain, 2012.

### Refereed Articles in Workshops and Conferences

- [1] E. Duval, K. Verbert, J. Klerkx, M. Wolpers, A. Pardo, S. Govaerts, D. Gillet, X. Ochoa, and D. Parra, “VISLA: Visual Aspects of Learning Analytics,” in *International Conference on Learning Analytics and Knowledge*, 2015, pp. 394–395.
- [2] H. M. Gunn, Y. Zhao, A. Pardo, R. A. Calvo, and K. S. Steinbeck, “A Mobile Phone Application to Support Self-management and Transition in Young People with Chronic Illness,” in *Youth Health Conference*, 2015.
- [3] D. Leony, P. J. Muñoz-merino, J. A. Ruipérez-valiente, D. A. Martín-caro, C. D. Kloos, and A. Pardo, “Rule-based detection of emotions in the Khan Academy platform,” in *Workshop on Massive Online Open Courses*, 2014, pp. 1–6.
- [4] D. Thilakanathan, Y. Zhao, S. Chen, S. Nepal, R. A. Calvo, and A. Pardo, “Protecting and Analysing Health Care Data on Cloud,” in *International Conference on Advanced Cloud and Big Data*, 2014, pp. 143–149.
- [5] Y. Zhao, A. Pardo, R. A. Calvo, E. Klineberg, M. Lam, and K. Steinbeck, “TransitionMate: A Mobile Application for Chronic Illness Transition Support,” in *Workshop on Supporting Autonomy in Technology Design*, 2014, pp. 1–4.
- [6] R. A. Calvo, A. Pardo, and D. Peters, “Supporting Emotional Intelligence with automatic sensing of the organization’s affective state,” in *International Conference on Emotional Intelligence in the Workplace*, 2013.
- [7] R. A. Calvo, A. Pardo, Y. Zhao, E. Klineberg, M. Lam, and K. Steinbeck, “TransitionMate: a mobile application for chronic illness transition support,” in *Fifth International Workshop on Smart Healthcare and Wellness Applications (SmartHealth’13) - OzCHI 2013, Nov 25 & 26*, 2013.
- [8] M. Liu, R. A. Calvo, and A. Pardo, “Visualizing the effect of actions in personal informatics systems,” in *Proceedings of the CHI Workshop “Personal Informatics in the Wild: Hacking Habits for Health & Happiness,”* 2013.
- [9] H. Monkaresi, R. A. Calvo, A. Pardo, K. Chow, B. Mullan, M. Lam, S. M. Twigg, and D. I. Cook, “Intelligent Diabetes Lifestyle Coach,” in *Fifth International Workshop on Smart Healthcare and Wellness Applications (SmartHealth’13) - OzCHI 2013, Nov 25 & 26*, 2013, pp. 1–4.
- [10] D. Leony, R. M. Crespo, M. Perez-Sanagustín, H. A. Parada G., L. De la Fuente Valentín, and A. Pardo, “Coverage metrics for learning-event datasets based on client-side monitoring,” in *Workshop on Bootstrapping Learning Analytics*, 2012.
- [11] D. Leony, A. Pardo, L. De-La-Fuente-Valentín, I. Quiñones, and C. Delgado Kloos, “Learning analytics in the LMS: Using browser extensions to embed visualizations into a Learning Management System,” in *Workshop “Towards Theory and Practice of Teaching Analytics,”* 2012.
- [12] D. Leony, A. Pardo, H. A. Parada G., and C. Delgado Kloos, “A cloud-based architecture for an affective recommender system of learning resources,” in *International Workshop on Cloud Educational Environments, Vol. 945*, 2012, pp. 41–46.
- [13] D. Leony, A. Pardo, H. A. Parada G., and C. Delgado Kloos, “A widget to recommend learning resources based on the learner affective state,” in *Workshop on Motivational and Affective Aspects of Technology Enhanced Learning*, 2012.

- [14] A. Pardo, M. Pérez-Sanagustín, H. A. Parada G., and D. Leony, “Flip With Care,” in *SoLAR Southern Flare Conference*, 2012, vol. 2011, no. 128, pp. 1–2.
- [15] S. Webster and A. Pardo, “Towards DIY OCW: A sustainable model for producing OpenCourseWare at the Universidad Carlos III of Madrid, Spain,” in *OpenCourseware Consortium Global Meeting*, 2011.
- [16] R. M. Crespo García and A. Pardo, “A Supporting System for Adaptive Peer Review based on Learners’ Profiles,” in *Proceedings of the Workshop on Computer-Supported Peer Review in Education CSPRED-2010*, 2010, pp. 22–31.
- [17] L. De La Fuente Valentín, M. Pérez-Sanagustín, P. Santos, D. Hernández-Leo, A. Pardo, C. Delgado Kloos, and J. Blat, “System orchestration support for a flow of blended collaborative activities,” in *2nd International Workshop on Adaptive Systems for Collaborative Learning*, 2010.
- [18] A. Pardo, I. Estévez-Ayres, P. Basanta-Val, and D. Fuentes-Lorenzo, “Programación en C con aprendizaje activo, evaluación continua y trabajo en equipo: caso de estudio,” in *Jornadas de Enseñanza Universitaria de la Informática*, 2010, pp. 231–238.
- [19] Á. Agea, R. M. Crespo García, C. Delgado Kloos, I. Gutiérrez Rojas, D. Leony Arreaga, and A. Pardo, “Recommendations to improve assessment interoperability,” in *International Workshop on Search and Exchange of e-le@rning Materials*, 2009.
- [20] I. Gutiérrez Rojas, D. Leony Arreaga, R. M. Crespo García, A. Pardo, and C. Delgado Kloos, “Metamodelo de Referencia para Contenido de Evaluación,” in *ASPECT Workshop*, 2009, vol. 57, no. n, pp. 1–6.
- [21] L. De La Fuente Valentín, A. Pardo, C. Delgado Kloos, J. I. Asensio-Pérez, and Y. A. Dimitriadis, “Integrating generic services in GRAIL, the Learning Design Run-Time Environment in .LRN,” in *Mash-Up Personal Learning Environments (MUPPLE’08)*, 2008, pp. 278–282.
- [22] D. Leony, L. De, F. Valent, and A. Pardo, “Basic Resource Edition in GRAIL,” in *7th OpenACS/.LRN Conference*, 2008.
- [23] L. De La Fuente Valentín, A. Pardo, and C. Delgado Kloos, “Experiences with GRAIL: Learning Design support in .LRN,” in *TENCompetence Open workshop on current research in IMS Learning Design and lifelong competence development infrastructures*, 2007.
- [24] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, “Authoring of Adaptive Sequencing for IMS-LD,” in *Workshop on Authoring Adaptable and Adaptive*, 2007.
- [25] S. Gutiérrez-Santos, A. Pardo, and C. Delgado Kloos, “Personalized resource sequencing in digital libraries,” in *Workshop on Cross-Media and Personalized Learning Applications on top of Digital Libraries*, 2007, pp. 29–37.
- [26] L. De La Fuente Valentín, C. Delgado Kloos, and A. Pardo, “Generación de contenidos para plataformas educativas,” in *Foro Hispano de .LRN*, 2005, pp. 1–11.
- [27] C. Delgado Kloos, A. Pardo, and M. C. Fernández Panadero, “El proyecto E-LANE: E-learning de código abierto para Latinoamérica,” in *Proceedings of Online Educa Madrid*, 2005.
- [28] C. Delgado Kloos, A. Pardo, E. Pérez Ureta, and N. Pérez Pérez, “La evaluación en el contexto educativo propuesto por el proyecto E-LANE,” in *Proceedings of the Online Educa Madrid*, 2005.
- [29] M. C. Fernández Panadero, J. Fernández Panadero, A. Marín López, and A. Pardo, “Extensión del Modelo de Shanon para la caracterización y diagnóstico de problemas educativos,” in *Actas del Congreso Internacional Interacción persona-ordenador*, 2002.

- [30] J. Cortadella, E. Pastor, R. M. Badia, and A. Pardo, "Achilles: A high-level synthesis system for asynchronous circuits," in *Sixth International Workshop on High-Level Synthesis*, 1992, pp. 307–311.

## 6. Awards

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- Faculty of Engineering and IT, Outstanding Teaching Award 2015, The University of Sydney
- Teaching Activity Award 2011 given by the University Carlos III of Madrid. Second highest score among the University full-time, PhD teaching staff.
- Teaching Activity Award 2009 given by the University Carlos III of Madrid to the top 12% of its permanent staff.
- Research Activity Award 2009 at the University Carlos III of Madrid to the top 31% of its permanent staff under 40 years of age.
- Publication Award 2009 at the University Carlos III of Madrid to the top 24% of the permanent staff.
- Research Activity Award 2007 at the University Carlos III of Madrid to the top 15% of its permanent staff under 40 years of age.
- Teaching Activity Award 2007 given by the University Carlos III to the top 12% of its permanent staff.

## 7. University Service

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- Co-director of the Learning Analytics Research Group. The University of Sydney 2016 – present.
- Member of the Management Team. Center for Research on Learning and Innovation, The University of Sydney, 2016 – present.
- Director of Technology and Engineering at the STEM Teacher Enrichment Academy, The University of Sydney 2015 – present.
- School of Electrical and Information Engineering, The University of Sydney, Associate Head of Teaching and Learning, 2013 - present.
- School of Electrical and Information Engineering, The University of Sydney, Director of IT, 2013-2014.
- Department of Telematic Engineering, University Carlos III of Madrid, deputy director of ICT, 2011 - 2012.
- Quality Committee of OpenCourseware UC3M, member of the quality committee, 2011-2012.
- Degree in Telecommunication Technology Engineering, member of the academic board, 2010 - 2012.
- Master on Elearning Management and Production, University Carlos III of Madrid, Dean of studies, 2007-2010.
  - Deployment of this degree. Duties included writing the main program guidelines, coordinate the course design and content, deploy quality assurance procedures.
- Graduate School of Telematic Engineering, University Carlos III of Madrid, vice director, 2006 - 2007
- Master Erasmus Mundus on Network and E-Business Centred Computing, University Carlos III of Madrid, 2005-2006.
  - Duties included the supervision of the student acceptance procedure, coordination of all courses, deployment of quality assurance procedures.
- Graduate School of Communication Technology, University Carlos III of Madrid, Director, 2003 - 2005
  - During this period the school was awarded the "Quality Award" by the Ministry of Education for the first time.
  - Among various duties, in charge of the student selection process and design of quality assurance guidelines for the program.



## 8. Professional Service

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- Member of the Executive Committee of the Society for Learning Analytics Research, 2015 – present.
- Member of the Editorial Board, IEEE Transactions on Learning Technologies, IEEE Press, 2014 – present.
- Member of the Editorial Board, International Journal of Social Media and Interactive Learning Environments, Inderscience Publishers, 2012.
- Program co-chair, International Conference on Learning Analytics and Knowledge, 2014
- Dissemination Chair, European Conference on Technology Enhanced Learning, 2011.
- Expert Reviewer for Research Projects Reviewer:
  - European Union. Horizon 2020 Programme, 2015
  - European Union. Framework Programme 7, 2013
  - Swiss National Science Foundation, 2014
  - Spanish National Agency for Evaluation and Prospective 2006 - 2010
- Reviewer for Journals:
  - Computers and Education
  - Journal on Learning Analytics
  - Journal on Educational Data Mining
  - Computers and Applications in Engineering Education
  - Computers in Human Behavior
  - Journal of Computing in Higher Education
  - ACM Journal on Educational Resources in Computing
  - Computer Applications in Engineering Education
  - IEEE Internet Computing
  - IEEE Multimedia
  - IEEE Latin-American Learning Technologies Journal
  - IEEE Transactions on Education
  - IEEE Transactions on Knowledge and Data Engineering
  - IEEE Transactions on Learning Technologies
  - International Journal of Continuing Engineering Education and Life-Long Learning
  - International Journal of Innovative Computing, Information and Control
  - International Journal on eLearning
  - International Journal on Learning Technology
  - International Journal on Technology Enhanced Learning
  - Journal of Digital Information
  - Journal of Interactive Media on Education
- Member of the Program Committee of numerous international conferences and workshops in the area of educational technology.
- Member of the Special Interest Group on Computer Science Education (SIGCSE), Association for Computer Machinery (ACM).