

CV Date

21/05/2024

Part A. PERSONAL INFORMATION

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1. RESEARCH, KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.1. PROJECTS AND CONTRACTS FOR RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE

1.1.1. Projects

- Project.** QuieterRail. (Europe's Rail). 01/10/2024-30/09/2026. 200.000 €.
- Project.** Desarrollo de modelos integrales para la simulación de la interacción dinámica vehículo-desvío (PID2020-118013RB-C21). (Ministerio de Ciencia e Innovación). 01/09/2021-31/08/2024. 102.487 €.
- Project.** The science and analytical tools to design long life, low noise railway track systems. (The Engineering and Physical Sciences Research Council (EPSRC)). 01/09/2017-31/05/2020. 5.842.505 €.
- Project.** Joint research into key technologies for controlling noise and vibration of high-speed railways under extremely complicated conditions. (National key research and development program of China). 01/01/2018-30/11/2018. 127.725 €.
- Project.** Innovative running gear solutions for new dependable, sustainable, intelligent and comfortable rail vehicles (777564). F. D. Denia. (SHIFT2RAIL Joint Undertaking). From 14/02/2019. 51.125 €.
- Project.** Modelado numérico avanzado en Ingeniería Mecánica(PROMETEO/2016/007). Fuenmayor Fernández, Francisco-Javier. (Generalitat Valenciana). From 01/01/2016. 237.401 €.
- Project.** Modelos dinámicos avanzados del eje ferroviario y de la vía en el rango de alta frecuencia para abordar problemas acústicos de ruido de rodadura (sp20140659). Martínez Casas, José. (Universidad Politécnica de Valencia). From 01/01/2015. 3.140 €.
- Project.** Desarrollo de nuevas tecnologías destinadas a reducir el impacto acústico del transporte ferroviario en entornos urbanos (tra2013-45596-c2-1-r). F. D. Denia; Baeza González, Luis. (Ministerio de Economía y Empresa). From 01/01/2014. 108.900 €.

1.1.2. Contracts

- Contract.** Desarrollo de técnicas de monitorización a través de medida en eje montado Construcciones y Auxiliar de Ferrocarriles Investigación y Desarrollo, S.L.. 12/05/2023-11/11/2023. 100.000 €.
- Contract.** Desarrollo de sistemas embarcados de diagnóstico de vía – modelo dinámico de la interacción vía/vehículo (ON-BOARD1) Construcciones y Auxiliar de Ferrocarriles Investigación y Desarrollo, S.L.. 01/12/2020-01/06/2021. 24.000 €.
- Contract.** Realización actividades en el marco del proyecto STEFAN ArcelorMittal Innovación Investigación e Inversión S.L.. 01/03/2020-01/03/2022. 108.500 €.
- Contract.** Development of a methodology for railway wheel design optimisation – Shift2Rail PIVOT CAF R&D. 30/09/2018-30/09/2019. 80.000 €.
- Contract.** Licencia exclusiva derechos de patente ES2436346: placa para soportar dos carriles ferroviarios sobre traviesas polivalentes RAILTECH SUFETRA, S.A.U.. 17/07/2015-17/07/2019. 3.500 €.

- 6 **Contract.** Colaboración proyecto investigación sobre subsistemas integrados en una plataforma de ensayos de trenes de muy alta velocidad Patentes TALGO, S.L.. 15/04/2015-15/06/2016. 15.689 €.
- 7 **Contract.** Colaboración proyecto sistema de medida de fuerzas de interacción pantógrafo-catenaria Patentes TALGO, S.L.. 26/05/2014-26/09/2016. 220.000 €.
- 8 **Contract.** Ensayo en banco estático y de fatiga del rodal del AVRIL G3 proyecto: F057 Patentes TALGO, S.L.. 03/09/2012-02/12/2013. 85.962,65 €.

1.2. RESULTS AND DISSEMINATION OF RESEARCH AND KNOWLEDGE TRANSFER AND EXCHANGE ACTIVITIES

1.2.1. Research activity

AC: corresponding author. (nº x / nº y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper.** Knuth, C.; Squicciarini, G.; Thompson, D.; Baeza, L.2024. Effects of rotation on the rolling noise radiated by wheelsets in high-speed railways. *Journal of Sound and Vibration*. 572.
- 2 **Scientific paper.** Giner-Navarro, J.; Gómez-Bosch, J.; Alonso, A.; Baeza, L.2023. A fast version of 'CONTACT' for normal problem calculations. *Wear*. 530-531.
- 3 **Scientific paper.** Baeza, Luis; Bruni, Stefano; Giner-Navarro, Juan; Liu, Binbin. 2023. A linear non-Hertzian unsteady tangential wheel-rail contact model. *Tribology International*. 181, pp.108345-108345. ISSN 0301-679X.
- 4 **Scientific paper.** Baeza, L.; Giner-Navarro, J.; Knuth, C.; Thompson, D.J.2023. Comprehensive model of a rotating flexible wheelset for high-frequency railway dynamics. *Mechanical Systems and Signal Processing*. 200.
- 5 **Scientific paper.** Gómez-Bosch, J.; Giner-Navarro, J.; Carballeira, J.; Baeza, L.2022. A direct method for the extension of FastSim under non-Hertzian contact conditions. *Vehicle System Dynamics*.
- 6 **Scientific paper.** Li, H.; Thompson, D.; Squicciarini, G.; et al; Moreno García-Loygorri, J.2021. A framework to predict the airborne noise inside railway vehicles with application to rolling noise. *Applied Acoustics*. 179.
- 7 **Scientific paper.** Xie, G.; Rissmann, M.; Bouvet, P.; et al; Arteaga, I.L.2021. Virtual Test Method of Structure-Borne Sound for a Metro Bogie. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*. 150, pp.186-193.
- 8 **Scientific paper.** Giner-Navarro, J.; Martínez-Casas, J.; Denia, F.D.; Baeza, L.2020. Efficient decoupling technique applied to the numerical time integration of advanced interaction models for railway dynamics. *Mathematical Methods in the Applied Sciences*. 43-14, pp.7915-7933.
- 9 **Scientific paper.** Baeza, L.; Giner-Navarro, J.; Thompson, D.J.2020. Reply to "Discussion on 'Eulerian models of the rotating flexible wheelset for high frequency railway dynamics' [J. Sound Vib. 449 (2019) 300-314]". *Journal of Sound and Vibration*. 489.
- 10 **Scientific paper.** Baeza, L.; Giner-Navarro, J.; Thompson, D.J.; Monterde, J.2019. Eulerian models of the rotating flexible wheelset for high frequency railway dynamics. *Journal of Sound and Vibration*. 449, pp.300-314.
- 11 **Scientific paper.** Sánchez-Orgaz, E.M.; Denia, F.D.; Baeza, L.; Kirby, R.2019. Numerical mode matching for sound propagation in silencers with granular material. *Journal of Computational and Applied Mathematics*. 350, pp.233-246.
- 12 **Scientific paper.** Giménez, J.G.; Alonso, A.; Baeza, L.2019. Precision analysis and dynamic stability in the numerical solution of the two-dimensional wheel/rail tangential contact problem. *Vehicle System Dynamics*. 57-12, pp.1822-1846.
- 13 **Scientific paper.** Thompson, D.J.; Squicciarini, G.; Ding, B.; Baeza, L.2018. A state-of-the-art review of curve squeal noise: Phenomena, mechanisms, modelling and mitigation. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*. 139, pp.3-41.
- 14 **Scientific paper.** Pieringer, A.; Torstensson, P.T.; Giner, J.; Baeza, L.2018. Investigation of railway curve squeal using a combination of frequency- and time-domain models. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*. 139, pp.83-95.

- 15 **Scientific paper.** Baeza, L.; Thompson, D.J.; Squicciarini, G.; Denia, F.D.2018. Method for obtaining the wheel–rail contact location and its application to the normal problem calculation through ‘CONTACT’. *Vehicle System Dynamics*. 56-11, pp.1734-1746.
- 16 **Scientific paper.** Giner-Navarro, J.; Martínez-Casas, J.; Denia, F.D.; Baeza, L.2018. Study of railway curve squeal in the time domain using a high-frequency vehicle/track interaction model. *Journal of Sound and Vibration*. 431, pp.177-191.
- 17 **Scientific paper.** Martínez-Casas, J.; Giner-Navarro, J.; Baeza, L.; Denia, F.D.2017. Improved railway wheelset–track interaction model in the high-frequency domain. *Journal of Computational and Applied Mathematics*. 309, pp.642-653.
- 18 **Scientific paper.** Giner, J.; Baeza, L.; Vila, P.; Alonso, A.2017. Study of the Falling Friction Effect on Rolling Contact Parameters. *Tribology Letters*. 65-1.
- 19 **Scientific paper.** Denia, F.D.; Sánchez-Orgaz, E.M.; Baeza, L.; Kirby, R.2016. Point collocation scheme in silencers with temperature gradient and mean flow. *Journal of Computational and Applied Mathematics*. 291, pp.127-141.
- 20 **Scientific paper.** Shaltout, R.; Ulianov, C.; Baeza, L.2015. Development of a simulation tool for the dynamic analysis of railway vehicle - Track interaction. *Transport Problems*. 10, pp.47-58.
- 21 **Scientific paper.** Pieringer, A.; Baeza, L.; Kropp, W.2015. Modelling of railway curve squeal including effects of wheel rotation. *Notes on Numerical Fluid Mechanics and Multidisciplinary Design*. 126, pp.417-424.
- 22 **Scientific paper.** Tur, M.; Baeza, L.; Fuenmayor, F.J.; García, E.2015. PACDIN statement of methods. *Vehicle System Dynamics*. 53-3, pp.402-411.
- 23 **Scientific paper.** Sánchez-Orgaz, E.M.; Denia, F.D.; Martínez-Casas, J.; Baeza, L.2014. 3D acoustic modelling of dissipative silencers with nonhomogeneous properties and mean flow. *Advances in Mechanical Engineering*. 2014.
- 24 **Scientific paper.** Tur, M.; García, E.; Baeza, L.; Fuenmayor, F.J.2014. A 3D absolute nodal coordinate finite element model to compute the initial configuration of a railway catenary. *Engineering Structures*. 71, pp.234-243.
- 25 **Scientific paper.** Martínez-Casas, J.; Di Gialleonardo, E.; Bruni, S.; Baeza, L.2014. A comprehensive model of the railway wheelset-track interaction in curves. *Journal of Sound and Vibration*. 333-18, pp.4152-4169.
- 26 **Scientific paper.** Giner, J.; Vila, P.; Alonso, A.; Baeza, L.2014. A study of the falling friction effect on contact parameters through exact contact models. *Civil-Comp Proceedings*. 104.
- 27 **Scientific paper.** Vila, P.; Baeza, L.; Martínez-Casas, J.; Carballeira, J.2014. Rail corrugation growth accounting for the flexibility and rotation of the wheel set and the non-Hertzian and non-steady-state effects at contact patch. *Vehicle System Dynamics*. 52-SUPPL. 1, pp.92-108.
- 28 **Scientific paper.** Alonso, A.; Guiral, A.; Baeza, L.; Iwnicki, S.2014. Wheel-rail contact: Experimental study of the creep forces-creepage relationships. *Vehicle System Dynamics*. 52-SUPPL. 1, pp.469-487.
- 29 **Congress.** Erdozain; Blanco; Baeza; Alonso. Operational Wheel Flat Detector in Railway Vehicles. Annual Conference of the Prognostics and Health Management Society, PHM. Prognostics and Health Management Society. 2023. United States of America.
- 30 **Congress.** Giner-Navarro; Baeza; Bruni; Liu. An exact linear tangential contact theory for railway rolling noise modelling in curves. 27th International Symposium on Dynamics of Vehicles on Roads and Tracks (IAVSD 2021). IAVSD. 2023. Canada.
- 31 **Congress.** Baeza; Giner-Navarro; Knuth; Squicciarini; Thompson. Influence of wheel rotation on instrumented wheelset measurements. 27th International Symposium on Dynamics of Vehicles on Roads and Tracks (IAVSD 2021). IAVSD. 2023. Canada.
- 32 **Congress.** Gomez-Bosch; Giner-Navarro; Navarro-Serrano; Baeza. A Fast Version of "CONTACT" for Normal Problem Calculations. 12th International Conference on Contact Mechanics and Wear of Rail/Wheel Systems (CM 2022). 2022. Australia.
- 33 **Congress.** Denia; Gutiérrez-Gil; Sanchez-Orgaz; Martinez-Casa; Baeza. An acoustic optimization approach for exhaust systems including multifarious devices. 28th International Congress on Sound and Vibration (ICSV28). International Institute of Acoustics and Vibration (IIAV). 2022. Singapore.

- 34 **Congress.** (p.o. de firma): F. D. Denia; Sánchez Orgaz, Eva María; Ferrándiz-Catalá, Borja; Martínez Casas, José; Baeza González, Luis. Efficient finite element modelling of sound propagation in after treatment devices with arbitrary cross section. Mathematical Modelling in Engineering & Human Behaviour 2020 (. 2020.
- 35 **Congress.** (p.o. de firma): Giner Navarro, Juan; Martínez Casas, José; F. D. Denia; Baeza González, Luis. Técnica de diagonalización para la mejora computacional de la integración numérica en dinámica ferroviaria. Congreso de Métodos Numéricos en Ingeniería (CMN 2019) (. Universidade do Minho. 2019.
- 36 **Congress.** (p.o. de firma): D.J. Thompson; Baeza González, Luis; F. D. Denia; et al; I. Lopez-Arteaga. Virtual test method of structure borne sound for a metro bogie. 13th International Workshop on Railway Noise (IWRN13). 2019.
- 37 **Congress.** (p.o. de firma): Giner Navarro, Juan; Martínez Casas, José; F. D. Denia; Baeza González, Luis. Analysis of railway curve squeal through improved models of the wheelset and the track. 4th International Conference on Railway Technology: Research, Development and Maintenance (RAILWAYS 2018). 2018.
- 38 **Congress.** (p.o. de firma): Giner Navarro, Juan; Martínez Casas, José; F. D. Denia; Baeza González, Luis. Efficient decoupling technique applied to the numerical time integration of advanced interaction models for railway dynamics. Mathematical Modelling in Engineering & Human Behaviour 2018. 20th Edition of the Mathematical Modelling Conference Series at the Institute for Multidisciplinary Mathematics (. Instituto Universitario de Matemática Multidisciplinar, L. Jódar, J. C. Cortés y L. Acedo (editores. 2018.
- 39 **Congress.** (p.o. de firma): Carballeira, Javier; Martínez Casas, José; F. D. Denia; Giner Navarro, Juan; Baeza González, Luis. How have recent developments on vehicle-track interaction models helped us to better understand wheel-rail rolling noise and squeal?. World Metro & Light Rail Congress & Expo 2018. 2018.
- 40 **Congress.** (p.o. de firma): García-Andrés, Francesc Xavier; F. D. Denia; Martínez Casas, José; Baeza González, Luis. Cálculo 3D de la potencia acústica radiada por una rueda ferroviaria a partir de la respuesta temporal con efectos giroscópicos y comportamiento no lineal. Congreso de Métodos Numéricos en Ingeniería (CMN 2017) (. International Center for Numerical Methods in Engineering (CIMNE). 2017.
- 41 **Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; F. D. Denia; Martínez Casas, José; Baeza González, Luis. Efficient approaches for the acoustic modelling of automotive exhaust devices. Application to configurations incorporating granular materials and monoliths. 24th International Congress on Sound and Vibration (. International Institute of Acoustics and Vibration (IIAV). 2017.
- 42 **Congress.** (p.o. de firma): Vila Tortosa, María Paloma; Giner Navarro, Juan; Martínez Casas, José; Baeza González, Luis. Estudio del crecimiento de la corrugación en carriles en vía curva utilizando un modelo de eje montado flexible rotatorio. Congreso de Métodos Numéricos en Ingeniería (CMN 2017) (. International Center for Numerical Methods in Engineering (CIMNE). 2017.
- 43 **Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; F. D. Denia; Martínez Casas, José; Baeza González, Luis. Modelado numérico eficiente del comportamiento acústico de silenciadores de escape con material absorbente granular. Congreso de Métodos Numéricos en Ingeniería (CMN 2017) (. International Center for Numerical Methods in Engineering (CIMNE). 2017.
- 44 **Congress.** (p.o. de firma): Martínez Casas, José; Carballeira, Javier; F. D. Denia; Baeza González, Luis. Modelo integral de interacción vehículo-vía que contempla la dinámica de baja y alta frecuencia para circulación en vía recta, transición y curva. Congreso de Métodos Numéricos en Ingeniería (CMN 2017) (. International Center for Numerical Methods in Engineering (CIMNE). 2017.
- 45 **Congress.** (p.o. de firma): Martínez Casas, José; Carballeira, Javier; F. D. Denia; et al; Baeza González, Luis. Modelos avanzados de simulación dinámica de la interacción vehículo-vía y pantógrafo-catenaria. 9 Congreso de Innovación Ferroviaria. 2017.

- 46 Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; F. D. Denia; Baeza González, Luis; Kirby, Raymond. Numerical mode matching for sound propagation in silencers with granular material. Mathematical Modelling in Engineering & Human Behaviour 2017. 19th Edition of the Mathematical Modelling Conference Series at the Institute for Multidisciplinary Mathematics (. Universitat Politècnica de València. 2017.
- 47 Congress.** (p.o. de firma): Martínez Casas, José; Carballeira, Javier; F. D. Denia; et al; Fuenmayor Fernández, Francisco Javier. Capacidades científico-técnicas del Grupo de Dinámica Ferroviaria del Centro de Investigación en Ingeniería Mecánica (CIIM) de la Universitat Politècnica de València (UPV). VIII Congreso de Innovación Ferroviaria. 2016.
- 48 Congress.** (p.o. de firma): Giner Navarro, Juan; Martínez Casas, José; Baeza González, Luis; F. D. Denia; Carballeira, Javier. Improved railway train-track interaction model in curves in the high-frequency domain. Mathematical Modelling in Engineering & Human Behaviour 2016. 18th Edition of the Mathematical Modelling Conference Series at the Institute for Multidisciplinary Mathematics (. Edited by Lucas Jódar, Juan Carlos Cortés and Luis Acedo. 2016.
- 49 Congress.** (p.o. de firma): Giner Navarro, Juan; A. Pieringer; Peter T. Torstensson; Baeza González, Luis. Investigation of railway curve squeal using a combination of frequency- and time-domain models. 12th International Workshop on Railway Noise (IWRN12). 2016.
- 50 Congress.** (p.o. de firma): Vila Tortosa, María Paloma; Baeza González, Luis; Martínez Casas, José; Giner Navarro, Juan. Prediction of rail corrugation growth in curves using a flexible and rotating wheelset model. 12th International Workshop on Railway Noise (IWRN12). 2016.
- 51 Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; F. D. Denia; Martínez Casas, José; Baeza González, Luis. Comparison of numerical approaches for the acoustic modelling of dissipative silencers with temperature gradients and mean flow. 44th International Congress and Exposition on Noise Control Engineering (Inter-noise 2015). International Institute on Noise Control Engineering. 2015.
- 52 Congress.** (p.o. de firma): Martínez Casas, José; Egidio; Baeza González, Luis; Stefano. Dynamic model of the track-railway vehicle interaction on curves. 24th International Symposium on Dynamics of Vehicles on Roads and Tracks (IAVSD 2015). 2015.
- 53 Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; Denia Guzmán, Francisco David; Martínez Casas, José; Baeza González, Luis. Comparación de técnicas basadas en colocación puntual y ajuste modal para la caracterización acústica de silenciadores disipativos con gradientes transversales de temperatura y flujo medio. IX Congreso Iberoamericano de Acústica (FIA 2014) (. Universidad Austral de Chile. 2014.
- 54 Congress.** (p.o. de firma): Sánchez Orgaz, Eva María; Denia Guzmán, Francisco David; Baeza González, Luis; Raymond. Numerical mode matching in dissipative silencers with temperature gradients and mean flow. 7th Forum Acusticum 2014. European Acoustics Association. 2014.
- 55 Congress.** (p.o. de firma): Denia Guzmán, Francisco David; Sánchez Orgaz, Eva María; Baeza González, Luis; Raymond. Point collocation scheme in silencers with temperature gradient and mean flow. Mathematical Modelling in Engineering & Human Behaviour 2014. 16th Edition of the Mathematical Modelling Conference Series at the Institute for Multidisciplinary Mathematics (. 2014.
- 56 Congress.** (p.o. de firma): Giner Navarro, Juan; Vila Tortosa, María Paloma; Alonso Pazos, Asier; Baeza González, Luis. Study of the falling friction effect on contact parameters through exact contact models. 2nd International Conference on Railway Technology: Research, Development and Maintenance (RAILWAYS 2014) (. Civil-Comp Press. 2014.
- 57 Congress.** (p.o. de firma): Peter T. Torstensson; A. Pieringer; Baeza González, Luis. Towards a model for prediction of railway tread brake noise. 26th International Conference on Noise and Vibration Engineering (ISMA 2014) (. KU Leuven. 2014.

1.2.2. Transfer and exchange of knowledge and professional activity

- 1 Vibration damper for railway tracks and a method of manufacturing Reg 01/10/2021
- 2 Método de determinación de las fuerzas en el contacto rueda-carril en vehículos ferroviarios Reg 29/06/2012

- 3 Conjunto, banco y procedimiento de calibración Reg 19/06/2012
- 4 Placa para soportar dos carriles ferroviarios sobre traviesas polivalentes Reg 09/03/2012

3. LEADERSHIP

3.2. SUPERVISION OF DOCTORAL THESES AND MASTER'S THESES

- 1 : Modelado del crecimiento del desgaste ondulatorio en carriles ferroviarios. 11/12/2015.
- 2 : Advanced techniques for time-domain modelling of high-frequency train/track interaction. 07/11/2015.
- 3 : Modelos Dinámicos Avanzados de Ejes Ferroviarios. 22/11/2013.
- 4 : Multibody Approach for Railway Dynamic Analysis. 11/03/2013.
- 5 : Modelado y simulación del comportamiento dinámico a baja frecuencia de trenes articulados. 23/07/2012.
- 6 : Modelado del contacto rueda-carril para aplicaciones de simulación de vehículos ferroviarios y estimación del desgaste en el rango de baja frecuencia. 27/01/2012.
- 7 : Dinámica estructural de cuerpos de revolución rotatorios: aplicación al eje de un vehículo ferroviario.. 09/05/2008.
- 8 : Modelo dinámico de la interacción vía-vehículo basado en subestructuración. 30/06/2006.

3.3. LEADERSHIP IN UNIVERSITY AND SCIENTIFIC MANAGEMENT AND ADMINISTRATION

- 1 **Profesor Titular de Escuela Universitaria:** Universitat Politècnica de València. 14/04/2000.
- 2 **Profesor Titular Interino de Escuela Universitaria:** Universitat Politècnica de València. 07/05/1999.
- 3 **Profesor Asociado tipo II:** Universitat Politècnica de València. 01/01/1998.
- 4 **Profesor Asociado tipo I:** Universitat Politècnica de València. 20/10/1995.

3.4. RECOGNITION AND RESPONSIBILITY IN SCIENTIFIC ORGANISATIONS AND SCIENTIFIC-TECHNICAL

- 1 **International Scientific Committee of the 27th IAVSD Symposium on Dynamics of Vehicles on Roads and Tracks:** International Association for Vehicle System Dynamics. 16/08/2021-20/08/2021
- 2 **Comité Científico del congreso "The First International Conference on Railway Technology: Research, Development and Maintenance":** Civil-Comp Press, Computational Technology Conferences and Publications. From 2020.
- 3 **Comité Científico del 9º Congreso Iberoamericano de Ingeniería Mecánica:** Federación Iberoamericana de Ingeniería Mecánica.. From 2017.
- 4 **Comité Científico del congreso "The Tenth International Conference on Computational Structures Technology":** Civil-Comp Press, Computational Technology Conferences and Publications. From 2014.
- 5 **Comité Científico del congreso "The Second International Conference on Railway Technology: Research, Development and Maintenance":** Civil-Comp Press, Computational Technology Conferences and Publications. From 08/2011.
- 6 **Comité Científico del congreso "The Twelfth International Conference on Computational Structures Technology (CST2014).":** Civil-Comp Press, Computational Technology Conferences and Publications Lugar y. From 2002.
- 7 **Editorial Board de la revista Advances in Mechanical Engineering (índice impacto JCR 1.062):** Hindawi Web: <http://www.hidawi.com/journals/ame/editors>.