

Curriculum Vitae

Juan Luis Osa Amilibia	Ingeniaritza Mekanikoa Saila	Departamento de Ingeniería Mecánica	Mechanical Engineering Department
	Gipuzkoako Ingeniaritza Eskola (Eibar)	Escuela de Ingeniería de Gipuzkoa (Eibar)	Engineering School of Eibar
	Euskal Herriko Unibertsitatea UPV/EHU	Universidad del País Vasco UPV/EHU	University of the Basque Country UPV/EHU

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Ikasketak/Estudios/Education

1994-99 Industria Ingeniaritza Teknikoa, Makinagintza berezitasuna, UPV/EHU Donostia
Degree thesis: FHO Emden, Germany (Erasmus exchange program 1999/1-1999/9)
2000-02 Industri Ingeniaritza, UPV/EHU Bilbao
Practices and degree project: Ormazabal S.A., Igorre (2001/11-2002/9) ; R+D department, finite elements
2004-10 Master Engineering in Manufacturing, University of Malaya, Kuala Lumpur, Malaysia
Master thesis: A new design of a Wave Energy Converter
2008-10 Master en Diseño y Fabricación, UPV/EHU, Bilbao.
2011 (May - July) Visiting researcher at Arts et Métiers ParisTech, ENSAM Bordeaux
2013 (March-May) Visiting researcher at Aachen University RWTH, Aachen (Germany)
2017-01-13 PhD thesis: '*On the numerical modelling of the contact in grinding*', Gipuzkoako Ingeniaritza Eskola, UPV/EHU, Eibar
2017 (June) Visiting researcher at Arts et Métiers ParisTech, ENSAM Bordeaux

Lan-esperientzia eta ikerkuntza-egonaldiak/Experiencia laboral y estancias de investigación/Work experience and research stays

2000 Design Department, Urpemak, Zumaia
2003-04 Product Engineering and Applications, GKN Driveline Zumaia
2006-07 Project Engineering, Sarralle, Azpeitia
2007 – today Lecturer and assistant professor at UPV/EHU, Mechanical Engineering Department
Engineering School of Vitoria-Gasteiz (2007-09)

Engineering School of Bibao (2009-11)

Engineering School of Eibar (2011-today)

Artikulu indexatuak/Artículos indexados/Indexed papers

H. García, M. Zubizarreta, J. Cuadrado and J.L. Osa, "Sustainability Improvement in the Design of Lightweight Roofs: A New Prototype of Hybrid Steel and Wood Purlins." *Sustainability* 11.1 (2018): 1-17.

J.L. Osa, N. Ortega, G. Vidal, B. Fernandez- Gauna, A. Carballo, I. Tolosa, 'Future of the Engineering discrete element method in the modelling of grinding', *Engineering Computations* 35 (2018): 2255-2271,

B. Fernandez-Gauna, J.L. Osa, and M. Graña. "Experiments of conditioned reinforcement learning in continuous space control tasks." *Neurocomputing* 271 (2018): 38-47.

J.L. Osa, N. Ortega, I. Iordanoff, and J.L. Charles. "Discrete-element modelling of the grinding contact length combining the wheel-body structure and the surface-topography models." *International Journal of Machine Tools and Manufacture* 110 (2016): 43-54.

B. Fernandez-Gauna, J.L. Osa, and M. Graña. "Effect of initial conditioning of reinforcement learning agents on feedback control tasks over continuous state and action spaces." *Advances in Intelligent Systems and Computing*, Springer International Publishing (2014)

Artikulu ez indexatuak/Artículos no indexados/No-indexed papers

J.L. Osa, A. Boyano, B. Fernandez- Gauna, M. Larrañaga , 'Harriaren egituraren zenbakizko eredu artezketan EKAIA EHUKo Zientzia eta Teknologia Aldizkaria 2018

A. Boyano, J.L. Osa, U. Fernandez- Gamiz, L. Torre, F. Mujika, 'Laminarteko hausturaren i/ii modu mistoa aztertzeako saiakuntza konfigurazio berri bat', EKAIA EHUKo Zientzia eta Teknologia Aldizkaria, 2018

Patentea/Patente/Patent

Invention patent: 'Módulo convertidor de energía de las olas marinas sumergible'

Patent Number: ES2435090

Owner: UPV/EHU

Inventors: J.L. Osa Amilibia, E. Zulueta Guerrero,

Acceptance date: 17/03/2015,

Konferentzia zientifikoak/Conferencias científicas/Scientific conferences

J.L. Osa, I. Uriarte, C. Peña-Rodríguez, C. Rodríguez de la Calle. "Harriaren topografiaren karakterizazioa gogortasun dinamikoaren bidez artezketan". *Materialen Zientzia eta Teknologia IV. Kongresua*, Donostia (2018)

I. Uriarte, J.L. Osa, E. Zulueta. "Kautxuaren abiadura altuko konpresiozko kurben "ringing" oszilazioen kentzea, makina serbo-hidraulikoen karakterizazio modalaren bitartez ". *Materialen Zientzia eta Teknologia IV. Kongresua*, Donostia (2018)

J.L. Osa, C. Peña-Rodríguez, N. Ortega. “Artezketa-harriaren gainazal zurruntasunaren neurketa talka-saiakuntza bidez”. *Materialen Zientzia eta Teknologia III. Kongresua*, Markina-Xemein (2016)

J.L. Osa, N. Ortega, C. Peña-Rodríguez. “Diamantaketak artezketa-harrian sortutako kaltea azpigainazalean”. *Materialen Zientzia eta Teknologia II. Kongresua*, Donostia (2014)

J.L. Osa, N. Ortega, J.M. Larrañaga, I. Iordanoff. “Fracture Mechanisms and Surface Mechanical Damage induced by Dressing on Grinding Wheels”. *Proceedings of the 5th Manufacturing Engineering Society International Conference*, Zaragoza (2013)

J.L. Osa, and A. Iturregi. “Selection of a generator for a Wave Energy Converter”. *9th International Conference on Renewable Energies and Power Quality ICREPQ*, Granada (2010)

J.L. Osa, and E. Zulueta. “Modelling of the MGR Wave Energy Converter”. *8th European Wave and Tidal Energy Conference EWTEC 2009*, Uppsala (2009)

J.L. Osa, and E. Zulueta. “Hydraulic circuit description of the MGR Wave Energy Converter”. *8th European Wave and Tidal Energy Conference EWTEC 2009*, Uppsala (2009)

J.L. Osa, and E. Zulueta. “Control strategy of the MGR Wave Energy Converter (WEC)”. *8th International Conference on Renewable Energies and Power Quality ICREPQ*, Valencia (2009)

Hezkuntza kongresuak/Congresos de innovación educativa/Educational conferences

J.L. Osa, A. Iturregi, O. Abarrategi, *Actividad que combina laboratorio, aula y centro de cálculo para la comprensión del estado tensional a flexión en 'Resistencia de Materiales'*, 25 CUIEET, 2017, Badajoz

J.L. Osa, Implementation of Sustainability Concepts on the Subject 'Mechanics of Materials', 1st International Conference on Engineering Education for the XXI Century, Castello de Plana, 2017

J.L. Osa, E. Carrascal, A. Anakabe, M.I. Eguia, and A. Iturregi. “Plan de actuación tutorial en la asignatura elasticidad y resistencia de materiales”. *CIFOP'10 – I International Conference in Teaching Staff Training, Virtual conference* (2010)

A. Iturregi, O. Abarrategi, and J.L. Osa. “Espacio Europeo de Educación Superior - Connotaciones Didácticas y Culturales”. *Universidad 2012 – 7º Congreso Internacional de Educación Superior*, La Habana (2012)

Ikasliburuak/Libros de texto/Textbooks

Juan Luis Osa Amilibia, *Materialen elastikotasun eta erresistentzia*, Euskera Errektoreordetza UPV/EHU, ISBN 978-84-695-1741-3, 2012