PRODUCCIÓN CIENTÍFICA RECIENTE DEL PERSONAL INVESTIGADOR Y CONTRIBUCIONES CONJUNTAS CON INVESTIGADORAS E INVESTIGADORES EXTRANJEROS.

Ingeniería Mecánica y de Materiales
E. Carabias, J.A. Cabrera, J.J. Castillo, J. Pérez, M. Alcázar , Non-intrusive determination of shock absorber characteristic curves by means of evolutionary algorithms, Mechanical Systems and Signal Processing Volume 182, 1 January 2023, 109583 https://doi.org/10.1016/j.ymssp.2022.109583 (Q1 en Mechanical Engineering) J. P. Fernández, M. A. Vargas, J. M. V. García, J. A. C. Carrillo and J. J. C. Aguilar, "Coevolutionary Optimization of a Fuzzy Logic Controller for Antilock Braking Systems Under Changing Road Conditions," in IEEE Transactions on Vehicular Technology, vol. 70, no. 2, pp. 1255-1268, Feb. 2021, doi: 10.1109/TVT.2021.3055142. (Q1 en Electrical &Electronic Engineering) M. Simarro, S. Postigo, P. Reyes, R.J. Luque, P.V. Baćić, J.J. Castillo, A study on the dynamic response of the double pantograph interaction with rigid catenary, Engineering Structures, Volume 334, 2025,120234, https://doi.org/10.1016/j.engstruct.2025.120234. (Q1 en Civil Engineering) Javier Pérez Fernández, Manuel Alcázar Vargas, Juan A. Cabrera Carrillo, Juan J. Castillo Aguilar, Barys Shyrokau,Path-following control using spiking neural networks associative maps, Robotics and Autonomous Systems, Volume 193, 2025,105077, https://doi.org/10.1016/j.robot.2025.105077. (Q1 en Automation and Control Systems) Peña-Trabalon, A., Prado-Novoa, M., de Roy, L. et al. Impact of applying traction in indentation tests for estimating axial compressive parameters for computational modeling of sutured meniscal horns. Acta Mechanica. Sinica. 42, 624717 (2026). https://doi.org/10.1007/s10409-025-24717-x, (Q1 en Mechanical Engineering) D.M. Neto, T.A. Narciso, E.R. Sérgio, A.S. Cruces, P. Lopez-Crespo, F.V. Antunes, Fatigue crack growth due to spectrum load produced by trains in a bridge, International Journal of Fatigue,Volume 191, 2025, 108706, https://doi.org/10.1016/j.ijfatigue.2024.108706., (Q1 en Mechanical Engineering) F.J. Trujillo, S. Martín-Béjar, F. Bañón, T. Andersson, L. Sevilla, Ann-based predictive model of geometrical deviations in dry turning of AA7075 (Al-Zn) alloy, Measurement, Volume 243, 2025,116355, https://doi.org/10.1016/j.measurement.2024.116355. (Q1 en Engineering Multidisciplinary) J. González-Vega, G. Castillo-López, F. García-Sánchez, Impact properties of an end of life tires' rubber. Numerical validation considering large strain and strain rate conditions, Polymer Testing, Volume 137, 2024, 108509, https://doi.org/10.1016/j.polymertesting.2024.108509. (Q1 en Materials Science, Characterization &Testing)