

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS EN EL PROGRAMA DE
DOCTORADO EN TECNOLOGÍAS DE LA INFORMACIÓN Y LAS COMUNICACIONES EN
EL AÑO 2018**

Doctorando	Hector Adrián Sánchez Hevia
Tesis	Efficient Multichannel Algorithms for Impulsive Sound Source Analysis
Directores	Roberto Gil Pita y Manuel Rosa Zurera
Fecha lectura	8/06/2018
Calificación	Sobresaliente cum laude
<ol style="list-style-type: none"> 1. Héctor Sánchez-Hevia, David Ayllon, Roberto Gil-Pita, Manuel Rosa-Zurera, "Indoor Self-Localization and Orientation Estimation of Smartphones Using Acoustic Signals", <i>Wireless Communications and Mobile Computing</i>, Article ID 3534829, 11 páginas, 2017. JCR: 0.869 (2017 Impact Factor), posición 216 de 260 en Engineering, Electrical and Electronic (Q4). 2. Hector Sanchez-Hevia, David Ayllon Álvarez, Roberto Gil-Pita, Manuel Rosa Zurera, "Maximum Likelihood Decision Fusion for Weapon Classification in Wireless Acoustic Sensor Networks", <i>IEEE-ACM Transactions on Audio Speech and Language Processing</i>, 25 issue 6, pp. 1172-1182, 2017. JCR: 2,950 (2017 Impact Factor), posición 5 de 31 en Acoustics (Q1). 3. David Ayllón Álvarez, Hector Adrián Sánchez Hevia, Roberto Gil-Pita, Manuel Utrilla Manso, Manuel Rosa Zurera, "Indoor Blind Localization of Smartphones by means of Sensor Data Fusion", <i>IEEE Transactions on Instrumentation and Measurement</i>, 65 no. 4, pp. 783-794. JCR: 2.456 (2016 Impact Factor) Posición 14 de 58 en Instruments and Instrumentation (Q1). 7 citas en ResearcherID, 6 citas en WoS (JCR), 1 cita en Chinese Science Citation Index, 	

Doctorando	Laura Cornejo Bueno
Tesis	New Hybrid Neuro-Evolutionary Algorithms for Renewable Energy and Facilities Management Problems.
Director	Sancho Salcedo Sanz
Fecha lectura	3/04/2018
Calificación	Sobresaliente <i>cum laude</i>

1. **L. Cornejo-Bueno**, J.C. Nieto Borge, E. Alexandre, K. Hessner, S. Salcedo-Sanz, "Accurate Estimation of Significant Wave Height with Support Vector Regression Algorithms and Marine Radar Images", *Coastal Engineering*, vol. 114, pp. 233-243, 2016 (JCR 2017: 3.221).
2. **L. Cornejo-Bueno**, J.C. Nieto Borge, P. García-Díaz, G. Rodríguez, S. Salcedo-Sanz, "Significant wave height and energy flux prediction for marine energy applications: A grouping genetic algorithm – Extreme Learning Machine approach", *Renewable Energy*, vol. 97, pp. 380-389, 2016 (JCR 2017: 4.357).
3. A. Aybar-Ruiz, S. Jiménez-Fernández, **L. Cornejo-Bueno**, C. Casanova-Mateo, J. Sanz-Justo, P. Salvador-González, S. Salcedo-Sanz, "A novel Grouping Genetic Algorithm – Extreme Learning Machine Approach for Global Solar Radiation Prediction from Numerical Weather Models Inputs", *Solar Energy*, vol. 132, pp. 129-142, 2016 (JCR 2017: 4.018).
4. M. Dorado-Moreno, **L. Cornejo-Bueno**, P.A. Gutiérrez, L. Prieto, C. Hervás-Martínez, S. Salcedo-Sanz, "Robust estimation of wind power ramp events with reservoir computing", *Renewable Energy*, vol. 11, pp. 428-437, 2017 (JCR 2017: 4.357).
5. **L. Cornejo-Bueno**, C. Casanova-Mateo, J. Sanz-Justo, E. Cerro-Prada, S. Salcedo-Sanz, "Efficient Low-Visibility Event Prediction at Airports using Machine-Learning Regression Techniques", *Boundary-Layer Meteorology*, vol. 165, no. 2, pp. 349-370, 2017 (JCR 2017: 2.573).
6. **L. Cornejo-Bueno**, E.C. Garrido-Merchán, D. Hernández-Lobato, S. Salcedo-Sanz, "Bayesian Optimization of a Hybrid System for Robust Ocean Wave Features Prediction", *Neurocomputing*, vol. 275, pp. 818-828, 2017 (JCR 2017: 3.317).
7. Z.M. Yaseena, R.C. Deo, A. Hilald, A.M. Abde, **L. Cornejo-Bueno**, S. Salcedo-Sanz, M.L. Nehdig, "Predicting compressive strength of lightweight foamed concrete using extreme learning machine model", *Advances in Engineering Software*, vol. 115, pp. 112-125, 2017 (JCR 2017: 3.000).
8. S. Salcedo-Sanz, R.C. Deo, **L. Cornejo-Bueno**, C. Camacho-Gómez, S. Ghimire, "An efficient neuro-evolutionary hybrid modelling mechanism for the estimation of daily global solar radiation in Sunshine State of Australia", *Applied Energy*, vol. 209, pp. 79-94, 2017 (JCR 2017: 7.182).

9. **L. Cornejo-Bueno**, L. Cuadra, S. Jiménez-Fernández, J. Acevedo-Rodríguez, L. Prieto, S. Salcedo-Sanz, "Wind Power Ramp Events Prediction with Hybrid Machine Learning", *Energies*, vol. 10, no. 11, pp. 1784-1811, 2017 (JCR 2017: 2.262).
10. S. Salcedo-Sanz, **L. Cornejo-Bueno**, L. Prieto, D. Paredes, R. García-Herrera, "Feature Selection in Machine Learning Prediction Systems for Renewable Energy Applications", *Renewable & Sustainable Energy Reviews*, vol. 90, pp. 728-741, 2018 (JCR 2017: 8.050).
11. **L. Cornejo-Bueno**, P. Rodríguez-Mier, M. Mucientes, J.C. Nieto-Borge, S. Salcedo-Sanz, "Significant Wave Height and Energy Flux Estimation with a Genetic Fuzzy System for Regression", *Ocean Engineering*, vol. 160, pp. 33-44, 2018 (JCR 2017: 1.894).

Doctorando	Carlos Camacho Gómez
Tesis	Contributions to the Development of the CRO-SL Algorithm: Engineering Applications Problems
Directores	Sancho Salcedo Sanz y Silvia Jiménez Fernández
Fecha lectura	10/07/2018
Calificación	Sobresaliente <i>cum laude</i>

1. **C. Camacho-Gómez**, X. Wang, E. Pereira, IM. Díaz, S. Salcedo-Sanz, "Active vibration control design using the Coral Reefs Optimization with Substrate Layer algorithm," *Engineering Structures*, vol. 157, pp. 14-26, 2018, (JCR 2016: 2.258).
2. S. Salcedo-Sanz, **C. Camacho-Gómez**, R. Mallol-Poyato, S. Jiménez-Fernández, J. Del Ser, "A novel Coral Reefs Optimization algorithm with substrate layers for optimal battery scheduling optimization in micro-grids," *Soft Computing*, vol. 20, no. 11, pp. 4287-4300, 2016, (JCR 2016: 2.472).
3. S. Salcedo-Sanz, **C. Camacho-Gómez**, A. Magdaleno, E. Pereira, A. Lorenzana, "Structures vibration control via Tuned Mass Dampers using a co-evolution Coral Reefs Optimization algorithm," *Journal of Sound and Vibration*, vol. 393, pp. 62-75, 2017, (JCR 2016: 2.593).
4. S. Salcedo-Sanz, A. Aybar-Ruíz, **C. Camacho-Gómez**, E. Pereira, "Efficient fractal-based mutation in evolutionary algorithms from iterated function systems," *Communications in Nonlinear Science and Numerical Simulation*, vol. 56, pp. 434-446, 2018, (JCR 2016: 2.784).
5. S. Salcedo-Sanz, **C. Camacho-Gómez**, L. Carro-Calvo, F. Jaume-Santero, E. AlexandreCortizo, "Near-Optimal Selection of Representative Measuring Points for Robust Temperature Field Reconstruction with the CRO-SL and Analogue Methods," *International Journal of Climatology*, accepted with minor revision (JCR 2016: 3.76).
6. R. Sánchez-Montero, **C. Camacho-Gómez**, P. López-Espí, S. López-Ruiz, S. Salcedo-Sanz, "Optimal Design of a Planar Textile Antenna for RFID Systems with the CRO-SL Algorithm,"

Sensors, vol. 18, 2018(JCR 2016: 2.957).

7. S. Salcedo-Sanz, **C. Camacho-Gómez**, A. Aybar-Ruiz, E. Alexandre-Cortizo, "Wind Power Field Reconstruction from a Reduced Set of Representative Measuring Points," Applied Energy, accepted, (JCR 2016: 7.182).
8. **C. Camacho-Gómez**, I. Marsá-Maestre, J. M. Giménez-Guzmán, S. Salcedo-Sanz, "A Coral Reefs Optimization Algorithm with Substrate Layer for Robust Wi-Fi Channel Assignment," Applied Soft Computing, under review, (JCR 2016: 3.541).

Doctorando	Lucas Cuadra Rodríguez
Tesis	Soft Computing approaches in ocean wave height prediction for marine energy applications.
Director	Juan Miguel del Pino González
Fecha lectura	22/05/2018
Calificación	Sobresaliente

1. **Cuadra, L.**, Pino, M. D., Nieto-Borge, J. C., & Salcedo-Sanz, S. (2017). Optimizing the Structure of Distribution Smart Grids with Renewable Generation against Abnormal Conditions: A Complex Networks Approach with Evolutionary Algorithms. *Energies*, vol. 10, issue 8 (2017) p. 1097. 1784. JCR: 2.676.
2. Alexandre, E., **Cuadra, L.**, Nieto-Borge, J. C., Candil-García, G., Del Pino, M., & Salcedo-Sanz, S. (2015). A hybrid genetic algorithm—extreme learning machine approach for accurate significant wave height reconstruction. *Ocean Modelling*, 92, 115-123. JCR = 3.337.