

**PUBLICACIONES DERIVADAS DE LAS TESIS DEFENDIDAS
EN EL PROGRAMA DE DOCTORADO EN CIENCIAS EN EL AÑO 2016**

Doctorando	Borja Rodríguez Cuenca
Tesis	Detection, Classification and Postclassification of Urban Features From Multispectral Images and Mobile Lidar Point Clouds
Director/es	M. Concepción Alonso Rodríguez / Silverio García Cortés
Fecha lectura	19/02/2016
<p>RODRÍGUEZ CUENCA, B.; GARCÍA CORTÉS, S.; ORDÓÑEZ , C.; ALONSO RODRÍGUEZ, M. C. Automatic detection and classification of pole-like objects in urban point cloud data using an anomaly detection algorithm. Remote sensing. 2015, 7: 12680-12703. doi: 10.3390/rs71012680 (2015).</p> <p>RODRÍGUEZ CUENCA, B.; GARCÍA-CORTÉS, S; ORDÓÑEZ, C.; ALONSO RODRÍGUEZ, M. C. An approach to detect and delineate street curbs from MLS 3D point cloud data. Automation in Construction. 51:103-112. doi: 10.1016/j.autcon.2014.12.009 (2105).</p> <p>RODRÍGUEZ CUENCA, B.; MALPICA VELASCO, J. A.; ALONSO RODRÍGUEZ, M. C. A spatial contextual postclassification method for preserving linear objects in multispectral imagery. IEEE Transactions on Geoscience and Remote Sensing. 51 174-183. doi: 10.1109/TGRS.2012.2197756 (2016)</p> <p>RODRÍGUEZ CUENCA, B., GARCÍA-CORTÉS, Silverio; ORDÓÑEZ, Celestino; ALONSO RODRÍGUEZ, María Concepción. Morphological Operations to Extract Urban Curbs in 3D MLS Point Clouds. International Journal of Geo-Information. 68: 222-235. doi: 10.3390/ijgi5060093 (2016).</p> <p>RODRÍGUEZ CUENCA, B.; ALONSO RODRÍGUEZ, M. C.; DOMENECH , E.; VALCÁRCEL , N.; DELGADO HERNÁNDEZ, J.; PECES MORERA, J. J.; AROZARENA , A. Procedure to detect impervious surfaces using satellite images and light detection and ranging (LIDAR) data. Image and Signal Processing for Remote Sensing XX. 9244, 9244141-9244149. doi:10.1117/12.2067259. (2014).</p> <p>RODRÍGUEZ CUENCA, B.; ALONSO RODRÍGUEZ, M. C. Semi-automatic detection of swimming pools from aerial high-resolution images and lidar data. Remote sensing. 6:2628-2646 doi: 10.1007/s00382-016-3129-0. (2014).</p>	

Doctorando	Miriam Alvarez-Gallego
Tesis	Variabilidad de la Concentración de Radón-222 Como Gas Trazador de Procesos Geodinámicos en Ambientes Subterráneos
Director/es	Soledad Cueva Robleño / Ángel Fernández Cortés / Sergio Sánchez Moral
Fecha lectura	26/02/2016

FERNANDEZ-CORTES A., CUEZVA S., CAÑAVERAS J.C., **ALVAREZ-GALLEGO M**, GARCÍA-ANTON E, SOLER V, SANCHEZ-MORAL S. Effect of water vapour condensation on the radon content in subsurface air in a hypogean inactive-volcanic environment in Galdar cave, Spain. Atmospheric Environment 75:15–23. doi:10.1016/j.atmosenv.2013.04.030. (2013)

J GARCIA-GUINEA, A FERNANDEZ-CORTES, **M ALVAREZ-GALLEGO**, E GARCIA-ANTÓN, M CASAS-RUIZ, D BLÁZQUEZ-PÉREZ, O TEIJÓN, S CUEZVA, V CORRECHER, S SANCHEZ-MORAL. Leaching of uranyl-silica complexes from the host meatpellite rock favoring high radon activity of subsoil air: case of Castañar cave (Spain). Journal of Radioanalytical and Nuclear Chemistry, 3: 1567-1585. doi: 10.1007/s10967-013-2587-7 (2013)

ALVAREZ-GALLEGO M., GARCIA-ANTON E., FERNANDEZ-CORTES A., CUEZVA S., SANCHEZ-MORAL S. High radon levels in subterranean environments: monitoring and technical criteria to ensure human safety (case of Castañar cave, Spain). Journal of Environmental radioactivity 145, 19-29. (2015).

FERNANDEZ-CORTES A., CUEZVA S., **ALVAREZ-GALLEGO M.**, GARCIA-ANTON E., PLA C., BENAVENTE D., JURADO V. , SAIZ-JIMENEZ C. , SANCHEZ-MORAL S. Subterranean atmospheres may act as daily methane sinks. Nature communications 6, 7003. 2015.

FERNANDEZ-CORTES A., CUEZVA S., GARCIA-ANTON E., **ALVAREZ-GALLEGO M.**, PLA C., BENAVENTE D.; CAÑAVERAS J.C., CLAFORRA J.M., PATERSON MATTEY D., SANCHEZ-MORAL S. Changes in the storage and sink of carbon dioxide in subsurface atmospheres controlled by climate-driven processes: the case of the Ojo Guareña karst system. , Environmental Earth Sciences, 74, 7715–7730. doi: 10.1007/s12665-015-4710-2. 2015.

GARCÍA-ANTON E, CUEZVA S., FERNANDEZ-CORTES A., **ALVAREZ-GALLEGO M.** , PLA C., BENAVENTE D., CAÑAVERAS J.C., SANCHEZ-MORAL S. Abiotic and seasonal control of soil-produced CO2 efflux in karstic ecosystems located in Oceanic and Mediterranean climates. Atmospheric Environment 164:31–49. (2017)

Doctorando	Giovanni Liguori
Tesis	Regional Climate Modeling of the Mediterranean and the Iberian Peninsula Climate Variability
Director/es	William David Cabos Narváez
Fecha lectura	25/11/2016
<p>DOMÍNGUEZ , M.; ROMERA , R.; FITA , L.; FERNANDES , J.; GIMENEZ GUERRERO, P.; MONTALVEZ, J.P.; LIGUORI , G.; CABOS NARVAEZ, W. D.; GAERTNER , M. A. Present climate precipitation and temperature extremes over Spain from a set of high resolution RCMs. Doi: 10.3354/cr01186. Climate Research. 2013</p> <p>GIMENEZ GUERRERO, P.; MONTAVEZ , J. P.; DOMÍNGUEZ , M.; ROMERA , R.; FERNANDES , J.; LIGUORI , G.; CABOS NARVAEZ, W. D.; GAERTNER , M. A. "Description of mean fields and interannual variability in an ensemble of RCM evaluation simulations over Spain: results from the ESCENA project" Climate Research. Doi: 10.3354/cr01165. 2013</p> <p>LIGUORI , G.; DI LORENZO , E.; CABOS NARVAEZ, W. D. "An ensemble view of heat flux dynamics and dipole mode in the Mediterranean Sea during winter" (ISSN:0930-7575). Climate Dynamics. 2017</p>	