



Publicaciones: Problemas Inversos y Cuantificación de la Incertidumbre.

- Estimation and SVM classification of glucose-insulin model parameters from OGTT data: a comparison with the ADA criteria: Estimation and SM classification of glucose- insulin, P Vargas, MA Moreles, J Pena, A Monroy, S Alavez International Journal of Diabetes in Developing Countries 41, 54-62, 2021
- Thermal uncertainty analysis of a single particle model for a Lithium-Ion cell MA Capistrán, JA Infante, ÁM Ramos Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie 2023
- Filtering and improved Uncertainty Quantification in the dynamic estimation of effective reproduction numbers MA Capistrán, A Capella, JA Christen Epidemics 40, 100624, 2022
- Bayesian sequential data assimilation for COVID-19 forecasting ML Daza-Torres, MA Capistrán, A Capella, JA Christen Epidemics 39, 100564, 2022
- Error control of the numerical posterior with Bayes factors in Bayesian uncertainty quantification MA Capistrán, JA Christen, ML Daza-Torres, H Flores-Arguedas, ... Bayesian Analysis 17 (2), 381-403, 2022
- Inference for stochastic kinetic models from multiple data sources for joint estimation of infection dynamics from aggregate reports and virological data OA Chkrebtii, YE García, MA Capistrán, DE Noyola The Annals of Applied Statistics 16 (2), 959-981, 2022
- Transient wave imaging with limited-view data H Ammari, M Asch, LG Bustos, V Jugnon, H Kang SIAM Journal on Imaging Sciences 4 (4), 1097-1121, 2011
- Transient elasticity imaging and time reversal H Ammari, LG Bustos, H Kang, H Lee Proceedings of the Royal Society of Edinburgh Section A: Mathematics 141 (6) 2011
- On the Green function in visco-elastic media obeying a frequency power-law E Bretin, LG Bustos, A Wahab Mathematical Methods in the Applied Sciences 34 (7), 819-830, 2011
- Transient wave imaging of anomalies: a numerical study S Gdoura, L Guadarrama- Bustos Mathematical and Statistical Methods for Imaging, Contemporary Mathematics, 2011 Elasticity Imaging L Guadarrama Mathematical Sciences with Multidisciplinary Applications, 2016
- Forecasting hospital demand in metropolitan areas during the current COVID-19 pandemic and estimates of lockdown-induced 2nd waves MA Capistran, A Capella, JA Christen PloS one 16 (1), e0245669, 2021





- Error control in the numerical posterior distribution in the Bayesian UQ analysis of a semilinear evolution PDE ML Daza-Torres, JC Montesinos-López, MA Capistrán, JA Christen, ... International Journal for Uncertainty Quantification 11 (4)
- Estimating a pressure dependent thermal conductivity coefficient with applications in food technology MA Capistrán, JA Infante del Rio Inverse Problems in Science and Engineering 28 (2), 277-293, 2020
- Reliability assessment and data inversion using a surrogate model of wave propagation in functionally graded materials MA Capistrán, P Chi Vinh, T Thanh Tuan Inverse Problems in Science and Engineering, 1-23 2019

