

Miguel A Luengo-Oroz

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,784
citations

643344

15
h-index

425179

34
g-index

54
all docs

54
docs citations

54
times ranked

3090
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Epidemiological modelling in refugee and internally displaced people settlements: challenges and ways forward. <i>BMJ Global Health</i> , 2022, 7, e007822. | 2.0 | 5 |
| 2 | Telemedicine for international travelers through a Smartphone-based monitoring platform (Trip) Tj ETQq0 0 0 rgBT JOverlock, 10 Tf 50 70 | 1.5 | 3 |
| 3 | Remote analysis of sputum smears for mycobacterium tuberculosis quantification using digital crowdsourcing. <i>PLoS ONE</i> , 2022, 17, e0268494. | 1.1 | 1 |
| 4 | AI reflections in 2020. <i>Nature Machine Intelligence</i> , 2021, 3, 2-8. | 8.3 | 7 |
| 5 | From Artificial Intelligence Bias to Inequality in the Time of COVID-19. <i>IEEE Technology and Society Magazine</i> , 2021, 40, 71-79. | 0.6 | 11 |
| 6 | Mobile microscopy and telemedicine platform assisted by deep learning for the quantification of <i>Trichuris trichiura</i> infection. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009677. | 1.3 | 24 |
| 7 | 3D-Printed Portable Robotic Mobile Microscope for Remote Diagnosis of Global Health Diseases. <i>Electronics (Switzerland)</i> , 2021, 10, 2408. | 1.8 | 8 |
| 8 | Operational response simulation tool for epidemics within refugee and IDP settlements: A scenario-based case study of the Coxâ€™s Bazar settlement. <i>PLoS Computational Biology</i> , 2021, 17, e1009360. | 1.5 | 11 |
| 9 | Combining collective and artificial intelligence for global health diseases diagnosis using crowdsourced annotated medical images. , 2021, 2021, 3344-3348. | | 4 |
| 10 | From plague to coronavirus: vessel trajectory data from ship automatic identification systems for epidemic modeling. <i>Journal of Travel Medicine</i> , 2020, 27, . | 1.4 | 2 |
| 11 | Stitching Methodology for Whole Slide Low-Cost Robotic Microscope Based on a Smartphone. , 2020, , . | | 3 |
| 12 | Artificial intelligence cooperation to support the global response to COVID-19. <i>Nature Machine Intelligence</i> , 2020, 2, 295-297. | 8.3 | 80 |
| 13 | Solidarity should be a core ethical principle of AI. <i>Nature Machine Intelligence</i> , 2019, 1, 494-494. | 8.3 | 17 |
| 14 | Data Science for Social Good Chairs' Welcome. , 2019, , . | | 0 |
| 15 | Collaborative intelligence and gamification for on-line malaria species differentiation. <i>Malaria Journal</i> , 2019, 18, 21. | 0.8 | 11 |
| 16 | Call Detail Records to Obtain Estimates of Forcibly Displaced Populations. , 2019, , 29-52. | | 3 |
| 17 | Crowdsourcing Visual Search in the real world: Applications to Collaborative Medical Image Diagnosis. <i>Journal of Vision</i> , 2019, 19, 8c. | 0.1 | 0 |
| 18 | Using big data for non-communicable disease surveillance. <i>Lancet Diabetes and Endocrinology</i> , the, 2018, 6, 595-598. | 5.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Data Fusion to Describe and Quantify Search and Rescue Operations in the Mediterranean Sea. , 2018, , . | | 4 |
| 20 | Mobile based surveillance platform for detecting Zika virus among Spanish Delegates attending the Rio de Janeiro Olympic Games. PLoS ONE, 2018, 13, e0201943. | 1.1 | 15 |
| 21 | Real-time incidence of travel-related symptoms through a smartphone-based app remote monitoring system: a pilot study. Journal of Travel Medicine, 2018, 25, . | 1.4 | 6 |
| 22 | Identifying seasonal mobility profiles from anonymized and aggregated mobile phone data. Application in food security. PLoS ONE, 2018, 13, e0195714. | 1.1 | 23 |
| 23 | Humanitarian applications of machine learning with remote-sensing data: review and case study in refugee settlement mapping. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170363. | 1.6 | 59 |
| 24 | Plasmodium species differentiation by non-expert on-line volunteers for remote malaria field diagnosis. Malaria Journal, 2018, 17, 54. | 0.8 | 18 |
| 25 | Sequences of purchases in credit card data reveal lifestyles in urban populations. Nature Communications, 2018, 9, 3330. | 5.8 | 55 |
| 26 | On the privacy-conscious use of mobile phone data. Scientific Data, 2018, 5, 180286. | 2.4 | 94 |
| 27 | Social Media Monitoring of Discrimination and HIV Testing in Brazil, 2014â€”2015. AIDS and Behavior, 2017, 21, 114-120. | 1.4 | 19 |
| 28 | Counting malaria parasites with a two-stage EM based algorithm using crowdsourced data. , 2017, 2017, 2283-2287. | | 2 |
| 29 | The International Postal Network and Other Global Flows as Proxies for National Wellbeing. PLoS ONE, 2016, 11, e0155976. | 1.1 | 8 |
| 30 | A Digital Framework to Build, Visualize and Analyze a Gene Expression Atlas with Cellular Resolution in Zebrafish Early Embryogenesis. PLoS Computational Biology, 2014, 10, e1003670. | 1.5 | 22 |
| 31 | Flooding through the lens of mobile phone activity. , 2014, , . | | 38 |
| 32 | Wavelet-based image fusion in multi-view three-dimensional microscopy. Bioinformatics, 2012, 28, 238-245. | 1.8 | 29 |
| 33 | Spatio-temporal filtering with morphological operators for robust cell migration estimation in ”in-vivo” images. , 2012, , . | | 1 |
| 34 | <formula formulatype="inline"><tex Notation="TeX">\$3D+t\$</tex></formula> Morphological Processing: Applications to Embryogenesis Image Analysis. IEEE Transactions on Image Processing, 2012, 21, 3518-3530. | 6.0 | 15 |
| 35 | Methodology for Reconstructing Early Zebrafish Development From In Vivo Multiphoton Microscopy. IEEE Transactions on Image Processing, 2012, 21, 2335-2340. | 6.0 | 15 |
| 36 | Crowdsourcing Malaria Parasite Quantification: An Online Game for Analyzing Images of Infected Thick Blood Smears. Journal of Medical Internet Research, 2012, 14, e167. | 2.1 | 93 |

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|----|--|-----|-----------|
| 37 | Image analysis for understanding embryo development: a bridge from microscopy to biological insights. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 630-637. | 1.5 | 33 |
| 38 | Processing pipeline for digitalizing the lineage tree of early zebrafish embryogenesis from multiharmonic imaging. , 2011, , . | | 1 |
| 39 | Image processing challenges in the creation of spatiotemporal gene expression atlases of developing embryos. , 2011, 2011, 6841-4. | | 2 |
| 40 | Robust iris segmentation on uncalibrated noisy images using mathematical morphology. <i>Image and Vision Computing</i> , 2010, 28, 278-284. | 2.7 | 70 |
| 41 | Towards a digital model of zebrafish embryogenesis. Integration of cell tracking and gene expression quantification. , 2010, 2010, 5520-3. | | 4 |
| 42 | Cell Lineage Reconstruction of Early Zebrafish Embryos Using Label-Free Nonlinear Microscopy. <i>Science</i> , 2010, 329, 967-971. | 6.0 | 327 |
| 43 | Combining sea urchin embryo cell lineages by error-tolerant graph matching. , 2009, 2009, 5918-21. | | 1 |
| 44 | Cyclic Mathematical Morphology in Polar-Logarithmic Representation. <i>IEEE Transactions on Image Processing</i> , 2009, 18, 1090-1096. | 6.0 | 13 |
| 45 | An automatic quantification and registration strategy to create a gene expression atlas of zebrafish embryogenesis. , 2009, 2009, 1469-72. | | 9 |
| 46 | Cell tracking in fluorescence images of embryogenesis processes with morphological reconstruction by 4D-tubular structuring elements. , 2009, 2009, 970-3. | | 5 |
| 47 | Standardized evaluation methodology and reference database for evaluating coronary artery centerline extraction algorithms. <i>Medical Image Analysis</i> , 2009, 13, 701-714. | 7.0 | 295 |
| 48 | Can voronoi diagram model cell geometries in early sea-urchin embryogenesis?. , 2008, , . | | 12 |
| 49 | Twister Segment Morphological Filtering. A New Method for Live Zebrafish Embryos Confocal Images Processing. , 2007, , . | | 4 |
| 50 | Mathematical Morphology in Polar-Logarithmic Coordinates. Application to Erythrocyte Shape Analysis. <i>Lecture Notes in Computer Science</i> , 2005, , 199-206. | 1.0 | 17 |
| 51 | Mapping the landscape of Artificial Intelligence applications against COVID-19. <i>Journal of Artificial Intelligence Research</i> , 0, 69, 807-845. | 7.0 | 275 |