

REFERENCES

- Adam, C., & Gaudou, B. (2017). Modelling Human Behaviours in Disasters from Interviews: Application to Melbourne Bushfires. *Journal of Artificial Societies and Social Simulation*, 20(3). DOI: <https://doi.org/10.18564/jasss.3395>.
- Ager, A. A., Kline J. D., Fisher, A. P. (2015). "Coupling the biophysical and social dimensions of wildfire risk to improve wildfire mitigation planning" *Risk Analysis*, 35 (8), 1393-1406. DOI: <https://doi.org/10.1111/risa.1237>
- Albini, F. (1976a). *Computer-based models of wildland fire behavior: a user's manual*.
- Albini, F. (1976b). *Estimating wildfire behavior and effects*.
- Alexander, M. E. (1985). Estimating the length-to-breadth ratio of elliptical forest fire patterns. *Proceedings of the Eighth Conference on Fire and Forest Meteorology. Vol. 29. Society of American Foresters*,
- Alexander, D. (2002). Principles of Emergency Planning and Management, Oxford University Press.
- Alexander, M. E., & Cruz, M. G. (2013). Limitations on the accuracy of model predictions of wildland fire behaviour: A state-of-the-knowledge overview. *The Forestry Chronicle*, 89(03), 372–383. DOI: <https://doi.org/10.5558/tfc2013-067>.
- Alsnih, R., Rose, J., & Stopher, P. (2005). *Understanding household evacuation decisions using a stated choice survey: case study of bush fires*.
- Alsnih, R., & Stopher, P. R. (2004). Review of Procedures Associated with Devising Emergency Evacuation Plans. *Transportation Research Record: Journal of the Transportation Research Board*, 1865(1), 89–97. DOI: <https://doi.org/10.3141/1865-13>
- Anderson, K. R., Englefield, P., Little, J. M., & Reuter, G. (2009). An approach to operational forest fire growth predictions for Canada. *International Journal of Wildland Fire*, 18(8), 893. DOI: <https://doi.org/10.1071/WF08046>
- Anderson, M. E. (1983). Predicting wind-driven fire Size and shape. *US Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station*, 305.
- ANEPC (2020). Autoridade Nacional de Emergência e Protecção Civil, "Directiva Operacional Nacional nº2 - DECIR".
- ANEPC (2013). Autoridade Nacional de Emergência e Protecção Civil, "Plano Nacional de Emergência de Protecção Civil".
- ANEPC (2016). Autoridade Nacional de Emergência e Protecção Civil, "Plano Distrital de Emergência de Protecção Civil de Coimbra".
- ANEPC (2018). Autoridade Nacional de Emergência e Protecção Civil, "Aldeia Segura, Pessoas Seguras - Guia de Apoio à Implementação".
- Ayuso, (2017). S. AYUSO, "El Pais - Brasil," [Online]. Available: https://brasil.elpais.com/brasil/2017/07/26/internacional/1501047742_019002.htm
- A LUSA (2021). A. Lusa, "SicNoticias," 2021. [Online]. Available: <https://beta.sicnoticias.pt/mundo/2021-08-31-Incendio-na-California-ja-queimou-o-equivalente-a-sete-vezes-a-cidade-de-Lisboa-092986f4>
- Arlikatti, S., Lindell, M. K., Prater, C. S., & Zhang, Y. (2006). Risk Area Accuracy and Hurricane Evacuation Expectations of Coastal Residents. *Environment and Behavior*, 38(2), 226–247. DOI: <https://doi.org/10.1177/0013916505277603>
- Asfaw, H. W., McGee, T., Christianson, A. C. (2019). The Role of Social Support and Place Attachment during Hazard Evacuation: The case of Sandy Lake First Nation, Canada. *Environ. Hazards*, 18, 361–381. DOI: <https://doi.org/10.1080/17477891.2019.1608147>

- Asfaw, H. W., McGee, T. K., Christianson, A. C. (2020). Indigenous Elders' Experiences, Vulnerabilities and Coping during Hazard Evacuation: The Case of the 2011 Sandy Lake First Nation Wildfire Evacuation. *Soc. Nat. Resour.*, 33, 1273–1291.
- Auld, J., Sokolov, V., Fontes, A., & Bautista, R. (2012). Internet-based stated response survey for no-notice emergency evacuations. *Transportation Letters*, 4(1), 41–53.
DOI: <https://doi.org/10.3328/TL.2012.04.01.41-53>
- AUTORIDADE NACIONAL DE PROTEÇÃO CIVIL (2018). Aldeia Segura Pessoas Seguras Guia de Apoio à Implementação. URL: www.procv.pt
- Barrows, J. S. (1951). *Forest fires in the northern Rocky Mountains*.
- Bardin, L. (2006). *Análise de conteúdo*, Lisboa: Edições 70.
- Beck, J. A. (2000). *Towards an operational geographic information and modelling system for fire management in Western Australia*. Curtin Univ. Tech.
- Benali, A., Russo, A., Sá, A., Pinto, R., Price, O., Koutsias, N., & Pereira, J. (2016). Determining Fire Dates and Locating Ignition Points With Satellite Data. *Remote Sensing*, 8(4), 326.
DOI: <https://doi.org/10.3390/rs8040326>
- Beyki, S. M., Santiago, A., Laím, L., & Craveiro, H. D. (2023). Evacuation Simulation under Threat of Wildfire—An Overview of Research, Development, and Knowledge Gaps. *Applied Sciences*, 13(17), 9587. DOI: <https://doi.org/10.3390/app13179587>.
- Beyki, S., Gameiro, A., Santiago, A., & Laím, L. (2025a). Wildfire Simulation Using Satellite Active Fire Data Interval Reinitialization and Rate of Spread Adjustment. *Remote Sensing Applications: Society and Environment*. DOI: <https://doi.org/https://dx.doi.org/10.2139/ssrn.5041284>
- Beyki, S. M., Lopes, A. G., Laím, L., & Santiago, A. (2025b). Comparative Analysis of Wildfire Simulation Tools: Discrepancies in Rothermel Model-Based Software under Varying Wind and Slope Conditions. *International Journal of Disaster Risk Reduction*, 105431.
DOI: <https://doi.org/10.1016/j.ijdr.2025.105431>
- Bickford, C. A., & Bruce, D. (1939). *Fire-discovery time in the longleaf pine-slash pine type*. USDA For. Serv., South. For. Exp. Stn., New Orleans, LA. Occas. Pap, 88(5).
- Blanchi, R., Whittaker, J., Haynes, K. and Leonard, J. (2018). “Surviving bushfire: the role of shelters and sheltering practices during the Black Saturday bushfires,” *Environmental Science and Policy*, 86-94.
- Bhaduri, B., Liu, C., & Franzese, O. (2006). *Oak Ridge evacuation modeling system (OREMS): A PC-based computer tool for emergency evacuation planning*.
- Borshchev, A. (2013). The Big Book of Simulation Modeling: Multimethod Modeling with AnyLogic 6. AnyLogic North America.
- Bowman, D. M., Balch, J. K., Artaxo, P., Bond, W. J., Carlson, J. M., Cochrane, M. A., ... & Pyne, S. J. (2009). Fire in the Earth System. *Science*, 324, 481–484.
- Bowman, D. M. J. S., Williamson, G. J., Abatzoglou, J. T., Kolden, C. A., Cochrane, M. A., Smith, A. M. S. (2017). Human exposure and sensitivity to globally extreme wildfire events. *Nat. Ecol. Evol.*, 1, 58.
- Bova, A. S., Mell, W. E., & Hoffman, C. M. (2016). A comparison of level set and marker methods for the simulation of wildland fire front propagation. *International Journal of Wildland Fire*, 25(2), 229.
DOI: <https://doi.org/10.1071/WF13178>.
- Bright, A. D. , Cordell, H. K , Hoover, A. P, Tarrant, M. (2003). “Human dimensions framework: guidelines for conducting social assessments” Gen. Tech. Rep. SRS-65. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.
- Brown, A., & Davis, K. P. (1973). *Forest fire: Control and use* (2nd ed.).

- Bulumulla, C., Padgham, L., Singh, D., & Chan, J. (2017). The importance of modelling realistic human behaviour when planning evacuation schedules. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems*, 446–454.
- Burgan, R. F. (1979). Burgan, Robert E. Estimating live fuel moisture for the 1978 national fire danger rating system. *Intermountain Forest and Range Experiment Station, Forest Service, US Department of Agriculture*, 226.
- Cardil, A., Monedero, S., Ramírez, J., & Silva, C. A. (2019). Assessing and reinitializing wildland fire simulations through satellite active fire data. *Journal of Environmental Management*, 231, 996–1003. DOI: <https://doi.org/10.1016/j.jenvman.2018.10.115>
- Cardil, A., Monedero, S., SeLegue, P., Navarrete, M. Á., de-Miguel, S., Purdy, S., Marshall, G., Chavez, T., Allison, K., Quilez, R., Ortega, M., Silva, C. A., & Ramirez, J. (2023). Performance of operational fire spread models in California. *International Journal of Wildland Fire*, 32(11), 1492–1502. DOI: <https://doi.org/10.1071/WF22128>
- Cardil, A., Monedero, S., Silva, C. A., & Ramirez, J. (2019). Adjusting the rate of spread of fire simulations in real-time. *Ecological Modelling*, 395, 39–44. DOI: <https://doi.org/10.1016/j.ecolmodel.2019.01.017>
- Cheney, P., & Sullivan, A. (2008). *Grassfires: Fuel, Weather and Fire Behaviour* (P. Cheney & A. Sullivan, Eds., 2nd ed.). CSIRO.
- Chiu, Y.-C., & Mirchandani, P. B. (2008). Online Behavior-Robust Feedback Information Routing Strategy for Mass Evacuation. *IEEE Transactions on Intelligent Transportation Systems*, 9(2), 264–274. DOI: <https://doi.org/10.1109/TITS.2008.922878>
- Chiu, Y.-C., Zheng, H., Villalobos, J. A., Peacock, W., & Henk, R. (2008). Evaluating Regional Contra-Flow and Phased Evacuation Strategies for Texas Using a Large-Scale Dynamic Traffic Simulation and Assignment Approach. *Journal of Homeland Security and Emergency Management*, 5(1). DOI: <https://doi.org/10.2202/1547-7355.1409>
- Chooramun, N., Lawrence, P. J., & Galea, E. R. (2012). An agent based evacuation model utilising hybrid space discretisation. *Safety Science*, 50(8), 1685–1694. DOI: <https://doi.org/10.1016/j.ssci.2011.12.022>
- Church, R. L., & Sexton, R. M. (2002). *Modeling small area evacuation: Can existing transportation infrastructure impede public safety?*
- Cohen, J. (2000). Preventing Disaster: Home Ignitability in the Wildland-Urban Interface. *J. For.*, 98, 15–21.
- Cohn, P. J., Carroll, M. S., & Kumagai, Y. (2006). Evacuation behavior during wildfires: results of three case studies. *Western Journal of Applied Forestry*, 21(1), 39–48.
- Cohn, P. J., Williams, D. R., Carroll, M. S. (2008). “Wildland-urban interface resident”s views on risk and attribution”, *Wildfire risk: Human perceptions and management implications*. Washing, Washington, D.C., Resources for the Future, RFF Press, 23–43.
- Cova, T. J., Drews, F. A., Siebeneck, L. K., & Musters, A. Musters (2009), A. Protective Actions in Wildfires: Evacuate or Shelter-in-Place? *Nat. Hazards Rev.* 2009, 10, 151–162.
- COUNCIL OF MINISTERS RESOLUTION 157-A/2017 Approves Structural Changes in Preventing and Fighting Forest Fires. Available online: <https://diariodarepublica.pt/dr/detalhe/resolucao-conselho-ministros/157-a-2017-114109966> (accessed on 10 January 2023).
- Colonna, P., Intini, P., Berloco, N., & Ranieri, V. (2016). The influence of memory on driving behavior: How route familiarity is related to speed choice. An on-road study. *Safety Science*, 82, 456–468. DOI: <https://doi.org/10.1016/j.ssci.2015.10.012>

- Copernicus DEM (2022). In *Copernicus DEM*. DOI: <https://doi.org/10.5270/ESA-c5d3d65>
- Countryman, C. M. (1972). *The fire environment concept*. USDA For. Serv., Pac. Southwest For. Range Exp. Stn.
- Countryman, C. M., & Schroeder M. J. (1960). Fire environment—The key to fire behavior. *Proceedings of the Fifth World Forestry Congress*.
- Cova, T. J. (2005). Public Safety in the Urban–Wildland Interface: Should Fire-Prone Communities Have a Maximum Occupancy? *Natural Hazards Review*, 6(3), 99–108.
DOI: [https://doi.org/10.1061/\(ASCE\)1527-6988\(2005\)6:3\(99\)](https://doi.org/10.1061/(ASCE)1527-6988(2005)6:3(99))
- Cova, T. J., Dennison, P. E., Kim, T. H., & Moritz, M. A. (2005). Setting Wildfire Evacuation Trigger Points Using Fire Spread Modeling and GIS. *Transactions in GIS*, 9(4), 603–617.
DOI: <https://doi.org/10.1111/j.1467-9671.2005.00237.x>
- Cova, T. J., & Johnson, J. P. (2002). Microsimulation of Neighborhood Evacuations in the Urban–Wildland Interface. *Environment and Planning A: Economy and Space*, 34(12), 2211–2229.
DOI: <https://doi.org/10.1068/a34251>
- Cruz, M. G., & Alexander, M. E. (2013). Uncertainty associated with model predictions of surface and crown fire rates of spread. *Environmental Modelling & Software*, 47, 16–28.
DOI: <https://doi.org/10.1016/j.envsoft.2013.04.004>
- Cruz, M. G., Alexander, M. E., Sullivan, A. L., Gould, J. S., & Kilinc, M. (2018). Assessing improvements in models used to operationally predict wildland fire rate of spread. *Environmental Modelling & Software*, 105, 54–63. DOI: <https://doi.org/10.1016/j.envsoft.2018.03.027>
- Cruz, M. G., & Gould, J. (2009, July). Field-based fire behaviour research: past and future roles. *Proceedings of the 18th World IMACS Congress and MODSIM09 International Congress on Modelling and Simulation*.
- CTI - COMISSÃO TÉCNICA INDEPENDENTE (2017). “Relatório Comunidade Independente – Análise e apuramento dos factos relativos aos incêndios que ocorreram em Pedrogão Grande, Castanheira de Pera, Ansião, Alvaiázere, Figueiró dos Vinhos, Arganil, Góis, Penela, Pampilhosa da Serra,” *Relatório Técnico*.
- CTI - COMISSÃO TÉCNICA INDEPENDENTE (2019) “Avaliação do Incêndio de Monchique”.
- CTI - COMISSÃO TÉCNICA INDEPENDENTE (2020) Comissão Técnica Independente, “Relatório Avaliação do Incêndio Vila de Rei – Mação”.
- Curry, J. R., & Fons, W. L. (1938). Rate of spread of surface fires in the ponderosa pine type of California. *Journal of Agricultural Research*, 57(4), 239–267.
- Cameron, P. A., Mitra, B., Fitzgerald, M., Scheinkestel, C. D., Stripp, A., Batey, C., ... & Cleland, H. (2009). Black Saturday: the immediate impact of the February 2009 bushfires in Victoria, Australia. *Medical Journal of Australia*, 191(1), 11–16.
- Canadas M. J., Novais, A. (2014). “Proprietários florestais, gestão e territórios rurais,” *Análise Social*, 211 XLIX (2.º), 346–381.
- Carroll, M., Cohn, P. J. (2007). Community impacts of large wildland fire events: Consequences of actions during the fire. In *People, Fire and Forests: A Synthesis of Wildfire Social Science*; Oregon State University Press: Corvallis, OR, USA, 104–123.
- Carochinho, J. A. (2011). “O conceito de «perceção do risco» : contributo da psicologia social,” *Revista Lusófona de Ciência Política, Segurança e Relações Internacionais*.
- Carvalho, A. F. F. d. S. (2010). “Bases para o Ordenamento do Povoamento,” *Dissertação para atribuição de grau mestre em Ordenamento da cidade, Universidade de Aveiro*.

- Chakraborty, J., Tobin, G.A., Montz, B. E. (2005). Population Evacuation: Assessing Spatial Variability in Geophysical Risk and Social Vulnerability to Natural Hazards. *Nat. Hazards Rev.*, 6, 23–33.
- Dhal, S., Jain, S., Gadepally, K. C., Vijaykumar, P., Braga-Neto, U., Sharma, B. H., Acharya, B. S., Nowka, K., & Kalafatis, S. (2024). Predicting large wildfires in the Contiguous United States using deep neural networks. *Journal of Applied Remote Sensing*, 18(02). DOI: <https://doi.org/10.1117/1.jrs.18.028501>
- Dias, M., Pinto, D. M., Samora-Arvela, A., & Barreiros, J. P. (2023). Adaptando políticas e programas de preparação das pessoas às realidades locais: a implementação dos programas aldeia segura, pessoas seguras no município de Góis. In *The Overarching Issues Of The European Area - Moving towards Efficient Societies and Sustainable Ecosystems*. Faculdade de Letras da Universidade do Porto, 347–363. DOI: <https://doi.org/10.21747/978-989-9082-88-5/ovea25>
- Dixit, V., & Wolshon, B. (2014). Evacuation traffic dynamics. *Transportation Research Part C: Emerging Technologies*, 49, 114–125. DOI: <https://doi.org/10.1016/j.trc.2014.10.014>
- Dow, K., & Cutter, S. L. (2002). Emerging Hurricane Evacuation Issues: Hurricane Floyd and South Carolina. *Natural Hazards Review*, 3(1), 12–18. DOI: [https://doi.org/10.1061/\(ASCE\)1527-6988\(2002\)3:1\(12\)](https://doi.org/10.1061/(ASCE)1527-6988(2002)3:1(12))
- COUNCIL OF MINISTERS RESOLUTION 157-A/2017 Approves Structural Changes in Preventing and Fighting Forest Fires. Available online: <https://diariodarepublica.pt/dr/detalhe/resolucao-conselho-ministros/157-a-2017-114109966> (accessed on 10 January 2023).
- Dennison, P. E., Cova, T. J., Mortiz, M. A. (2007). WUIVAC: A wildland-urban interface evacuation trigger model applied in strategic wildfire scenarios. *Nat. Hazards*, 41, 181–199.
- Duane, A., Aquilué, N., Gil-Tena, A., & Brotons, L. (2016). Integrating fire spread patterns in fire modelling at landscape scale. *Environmental Modelling & Software*, 86, 219–231. DOI: <https://doi.org/10.1016/j.envsoft.2016.10.001>.
- Edgeley, C.M., Paveglio, T. B. (2019). Exploring influences on intended evacuation behaviors during wildfire: What roles for pre-fire actions and event-based cues? *Int. J. Disaster Risk Reduct.*, 37, 101182.
- Elbein, S. (2019). How to live with mega-fires? Portugal's feral forests may hold the secret. Retrieved from National Geographic: <https://www.nationalgeographic.com/science/article/how-to-live-with-mega-fires-portugal-forests-may-hold-secret>, consulted at 03/05/2022.
- Elhami-Khorasani, N., Kinateder, M., Lemiale, V., Manzello, S. L., Marom, I., Marquez, L., Suzuki, S., Theodori, M., Wang, Y., & Wong, S. D. (2023). Review of Research on Human Behavior in Large Outdoor Fires. In *Fire Technology* (Vol. 59, Issue 4, pp. 1341–1377). Springer. DOI: <https://doi.org/10.1007/s10694-023-01388-6>
- FEMA - FEDERAL EMERGENCY MANAGEMENT AGENCY (2022). Wildland Urban Interface: A Look at Issues and Resolutions. A Report of Recommendations for Elected Officials, Policymakers and All Levels of Government, Tribal and Response Agencies. 2022. Available online: <https://www.usfa.fema.gov/downloads/pdf/publications/wui-issues-resolutions-report.pdf> (accessed on 31 May 2024).
- Fernandes, P. (2017). “Entender porque arde tanto a floresta em Portugal,” 69-91 In *Árvores e Florestas de Portugal, Vol. 8 Proteger a Floresta - Incêndios, Pragas e Doenças.*, 2017.
- Folk, L. H., Kuligowski, E. D., Gwynne, S. M. V., Gales, J. A. (2019). A Provisional Conceptual Model of Human Behavior in Response to Wildland-Urban Interface Fires. *Fire Technol*, 55, 1619–1647.
- França, G. (2021). “<https://www.gouvernement.fr>” 2021. [Online]. Available: <https://www.gouvernement.fr/risques/feu-de-foret>. [Acedido em 26 Janeiro 2022].
- Finney, M. A. (1998). FARSITE, Fire Area Simulator--model development and evaluation. *US Department of Agriculture, Forest Service, Rocky Mountain Research Station*, 4.

- Finney, M. A. (2002). Fire growth using minimum travel time methods. *Canadian Journal of Forest Research*, 32(8), 1420–1424. DOI: <https://doi.org/10.1139/x02-068>
- Finney, M. A. (2006). An Overview of FlamMap Fire Modeling Capabilities. *US Department of Agriculture, Forest Service, Rocky Mountain Research Station*, 41, 213–220.
- Folk, L. H., Kuligowski, E. D., Gwynne, S. M. V., & Gales, J. A. (2019). A Provisional Conceptual Model of Human Behavior in Response to Wildland-Urban Interface Fires. *Fire Technology*, 55(5), 1619–1647. DOI: <https://doi.org/10.1007/s10694-019-00821-z>
- Fons, W. L. (1940). Influence of Forest Cover on Wind Velocity. *Journal of Forestry*, 38(6), 481–486.
- Forthofer, J. M. (2007). *Modeling wind in complex terrain for use in fire spread prediction*. Fort Collins, CO: Colorado State University.
- Forthofer, J. M., Butler, B. W., McHugh, C. W., Finney, M. A., Bradshaw, L. S., Stratton, R. D., Shannon, K. S., & Wagenbrenner, N. S. (2014). A comparison of three approaches for simulating fine-scale surface winds in support of wildland fire management. Part II. An exploratory study of the effect of simulated winds on fire growth simulations. *International Journal of Wildland Fire*, 23(7), 982. DOI: <https://doi.org/10.1071/WF12090>
- Fox-Hughes, P., Bridge, C., Faggian, N., Jolly, C., Matthews, S., Ebert, E., Jacobs, H., Brown, B., & Bally, J. (2024). An evaluation of wildland fire simulators used operationally in Australia. *International Journal of Wildland Fire*, 33(4). DOI: <https://doi.org/10.1071/WF23028>
- Frandsen, W. H. (1973). *Rothermel's fire spread model programed for the Hewlett-Packard 9820*.
- Frandsen, W. H., & Andrews, P. L. (1979). e behavior in nonuniform fuels. USDA Forest Service Research Paper INT-232. *International Forest and Range Experiment Station Forest Service*.
- Freitas do Amaral, D., (1986). Administrative Law Course—Volume I; Livraria Almedina: Lisbon, Portugal.
- Fu, H., & Wilmot, C. G. (2004). Sequential Logit Dynamic Travel Demand Model for Hurricane Evacuation. *Transportation Research Record: Journal of the Transportation Research Board*, 1882(1), 19–26. DOI: <https://doi.org/10.3141/1882-03>
- Fujika, F. M. (1985). Estimating Wildland Fire Rate of Spread in a Spatially Nonuniform Environment. *Forest Science*, 31(1), 21–29.
- GETIN_UA (2016). *Plano estratégico municipal da Sertã*, Município da Sertã 2016.
- Gisborne, H. T. (1927). Meteorological factors in the quartz creek forest fire, Mon. Weather Rev. 55 (2) (Feb. 1927) 56–60. DOI: [https://doi.org/10.1175/1520-0493\(1927\)55%3C56:MFITQC%3E2.0.CO;2](https://doi.org/10.1175/1520-0493(1927)55%3C56:MFITQC%3E2.0.CO;2)
- Gibbons, P., Gill, A. M., Shore, N., Moritz, M. A., Dovers, S., Cary, G. J. (2018). Options for reducing house-losses during wildfires without clearing trees and shrubs. *Landsc. Urban Plan*, 174, 10–17.
- Golshani, N., Shabanpour, R., Mohammadian, A. (Kouros), Auld, J., & Ley, H. (2019). Analysis of evacuation destination and departure time choices for no-notice emergency events. *Transportmetrica A: Transport Science*, 15(2), 896–914. DOI: <https://doi.org/10.1080/23249935.2018.1546778>
- Grajdura, S., Borjigin, S., & Niemeier, D. (2022). Fast-moving dire wildfire evacuation simulation. *Transportation Research Part D: Transport and Environment*, 104, 103190. DOI: <https://doi.org/10.1016/j.trd.2022.103190>
- Grajdura, S., Qian, X., & Niemeier, D. (2021). Awareness, departure, and preparation time in no-notice wildfire evacuations. *Safety Science*, 139, 105258. DOI: <https://doi.org/10.1016/j.ssci.2021.105258>.
- Guarsio, G., & Baracani, M. (2002). A simulation software of forest fires based on two-level cellular automata. In Viegas (Ed.), *Proceedings of the IV International Conference on Forest Fire Research*.

- Gwynne, S. M. V., Ronchi, E., Wahlqvist, J., Cuesta, A., Gonzalez Villa, J., Kuligowski, E. D., Kimball, A., Rein, G., Kinatader, M., Benichou, N., & Xie, H. (2023). Roxborough Park Community Wildfire Evacuation Drill: Data Collection and Model Benchmarking. *Fire Technology*, 59(2), 879–901. DOI: <https://doi.org/10.1007/s10694-023-01371-1>
- Guerreiro, J., Fonseca, C., Salgueiro, A., Fernandes, P., Lopez Iglésias, E., de Neufville, R., ... & Caldeira, D. N. (2018). Avaliação dos incêndios ocorridos entre 14 e 16 de outubro de 2017 em Portugal Continental. Relatório Final, 274, Assembleia da República: Lisboa, Portugal.
- Guerreiro, J., Fonseca, C., Salgueiro, A., Fernandes, P., Lopez Iglésias, E., de Neufville, R., Mateus, F., Castellnou Ribau, M., Sande Silva, J., Moura, J.M., *et al.* (2022). Análise e Apuramento dos Factos Relativos aos Incêndios que Ocorreram em Pedrógão Grande, Castanheira de Pera, Ansião, Alvaiázere, Figueiró dos Vinhos, Arganil, Góis, Penela, Pampilhosa da Serra, Oleiros e Sertã, entre 17 e 24 de Junho de 2017—Relatório Final; Assembleia da República: Lisboa, Portugal, 2022.
- Haddow, G. D., Bullock, J. A., & Coppola, D. P. (2006). Introduction to emergency management. Elsevier/Butterworth-Heinemann.
- Hall, J. J. R. (2004). How Many People Can Be Saved from Home Fires if Given More Time to Escape? *Fire Technol.*, 40, 117–126.
- Haynes, K., Handmer, J., McAneney, J., Tibbits, A., Coates, L. (2010). Australian bushfire fatalities 1900–2008: Exploring trends in relation to the ‘Prepare, stay and defend or leave early’ policy. *Environ. Sci. Policy*, 13, 185–194.
- Handmer, J., Van der Merwe, M., & O’Neill, S. (2019). The risk of dying in bushfires: A comparative analysis of fatalities and survivors. *Progress in Disaster Science*, 1, 100015. DOI: <https://doi.org/10.1016/j.pdisas.2019.100015>
- Handmer, J. A. T. (2005). “Is Staying at Home the Safest Option During Bushfires? Historical Evidence for an Australian Approach.” *Environmental Hazards* 6: 81–91.
- Hardy, M., Dodge, L., Smith, T., Vásconez, K. C., & Wunderlich, K. E. (2008). Evacuation management operations modeling assessment: Transportation modeling inventory. *15th World Congress on Intelligent Transport Systems and ITS America’s 2008 Annual Meeting* ITS America/ERTICOITS Japan/TransCore.
- Hidas, P. (2005). A functional evaluation of the AIMSUN, PARAMICS and VISSIM microsimulation models. *Road & Transport Research*, 14(4), 45–59.
- INSTITUTO DA CONSERVAÇÃO DA NATUREZA E DAS FLORESTAS. (n.d.). *Geoportal: Catalog of the ICNF* <https://geocatalogo.icnf.pt/catalogo.html>. (n.d.).
- INE - INSTITUTO NACIONAL DE ESTATÍSTICA (2022). Censos 2021. XVI Recenseamento Geral da Populac.o. VI Recenseamento Geral da Habitac.o: Resultados Definitivos; INE: Lisboa, Portugal, 2022. Available online: <https://www.ine.pt/xurl/pub/65586079%3E> (accessed on 15 September 2023).
- Intini, P., Ronchi, E., Gwynne, S., Pel, A. (2019). Traffic Modeling for Wildland–Urban Interface Fire Evacuation. *J. Transp. Eng. Part A Syst.*, 145, 04019002.
- Jha, M., Moore, K., & Pashaie, B. (2004). Emergency Evacuation Planning with Microscopic Traffic Simulation. *Transportation Research Record: Journal of the Transportation Research Board*, 1886(1), 40–48. DOI: <https://doi.org/10.3141/1886-06>
- Jodelet, D. (1997). “Représentations Sociales: un domaine en expansion” in Denise Jodelet (Ed.) *Les Représentations Sociales*, Paris, Presses Universitaire de France: 31-61.
- Julio, G., Pedernera, P., & Aguilera, R. (1998). Aplicaciones del SIG en la Gestión de la Protección contra los Incendios Forestales-El Sistema KITRAL. *Actas Taller Regional FAO Aplicaciones de La Teledetección y Los Sistemas de Información Geográfica a La Gestión Agrícola y Del Medio Ambiente*.

- Karafyllidis, I., & Thanailakis, A. (1997). A model for predicting forest fire spreading using cellular automata. *Ecological Modelling*, 99(1), 87–97.
DOI: [https://doi.org/10.1016/S0304-3800\(96\)01942-4](https://doi.org/10.1016/S0304-3800(96)01942-4).
- Kasperson, R., Renn, O., Slovic, P., Brown, H., Emel, J., Goble, R., Kasperson, J., Ratick, S., (2003). "The Social Amplification of Risk :Assessing fifteen years of research and theory," em *Nick Pidgeon, Roger E. Kasperson , Paul Slovic (Ed.) The Social Amplification of Risk*, Cambridge, Cambridge University Press.
- Kessell, S. R., & Potter, M. W. (1980). A quantitative succession model for nine Montana forest communities. *Environmental Management*, 4(3), 227–240.
- Kinateder, M. T., Kuligowski, E. D., Reneke, P. A. (2015). "Risk perception in fire evacuation behavior revisited: definitions, related concepts, and empirical evidence" *Fire science reviews*, 4, 1.
DOI: <https://doi.org/10.1186/s40038-014-0005-z>
- Kuligowski, E. (2021). Evacuation decision-making and behavior in wildfires: Past research, current challenges and a future research agenda. *Fire Safety Journal*, 120, 103129.
DOI: <https://doi.org/10.1016/j.firesaf.2020.103129>
- Kuligowski, E. (2008). Modeling Human Behavior during Building Fires. Technical Note (NIST TN), National Institute of Standards and Technology, Gaithersburg, MD. Available online: https://tsapps.nist.gov/publication/get_pdf.cfm?pub_id=861621 (accessed on 10 January 2023).
- Kwon, E., & Pitt, S. (2005). Evaluation of Emergency Evacuation Strategies for Downtown Event Traffic Using a Dynamic Network Model. *Transportation Research Record: Journal of the Transportation Research Board*, 1922(1), 149–155. DOI: <https://doi.org/10.1177/0361198105192200119>
- Larsen, J. C., Dennison, P. E., Cova, T. J., & Jones, C. (2011). Evaluating dynamic wildfire evacuation trigger buffers using the 2003 Cedar Fire. *Applied Geography*, 31(1), 12–19.
DOI: <https://doi.org/10.1016/j.apgeog.2010.05.003>
- Lee, K. S., Eom, J. K., & Moon, D. (2014). Applications of TRANSIMS in Transportation: A Literature Review. *Procedia Computer Science*, 32, 769–773.
DOI: <https://doi.org/10.1016/j.procs.2014.05.489>.
- Leite, F. F., Gonçalves, A. B., Lourenço, L., Úbeda, X., & Vieira, A. (2013). "Grandes incêndios florestais em Portugal Continental como resultado das perturbações nos regimes de fogo no mundo mediterrâneo," *Silva Lusitana*, 2013.
- León, J., & March, A. (2017). Taking responsibility for 'shared responsibility': urban planning for disaster risk reduction across different phases. Examining bushfire evacuation in Victoria, Australia. *International Planning Studies*, 22(3), 289–304. DOI: <https://doi.org/10.1080/13563475.2016.1234368>
- Li, D. (2022). A data-driven approach to improving evacuation time estimates during wildfires for communities with part-time residents in the wildland-urban interface. *International Journal of Disaster Risk Reduction*, 82, 103363. DOI: <https://doi.org/10.1016/j.ijdr.2022.103363>
- Li, D., Cova, T. J., & Dennison, P. E. (2019). Setting Wildfire Evacuation Triggers by Coupling Fire and Traffic Simulation Models: A Spatiotemporal GIS Approach. *Fire Technology*, 55(2), 617–642.
DOI: <https://doi.org/10.1007/s10694-018-0771-6>
- Li, D., Cova, T. J., & Dennison, P. E. (2019). Setting Wildfire Evacuation Triggers by Coupling Fire and Traffic Simulation Models: A Spatiotemporal GIS Approach. *Fire Technol.* 2018, 55, 617–642.
- Lindell, M. K., Murray-Tuite, P., & Baker, E. J. (2019). *Large-scale evacuation: The analysis, modeling, and management of emergency relocation from hazardous areas*. Routledge.
- Lindell, M. K., & Perry, R. W. (2012). The Protective Action Decision Model: Theoretical Modifications and Additional Evidence. *Risk Analysis*, 32(4), 616–632.
DOI: <https://doi.org/10.1111/j.1539-6924.2011.01647.x>

- Lopes, A. M. G., Cruz, M. G., & Viegas, D. X. (2002). FireStation — an integrated software system for the numerical simulation of fire spread on complex topography. *Environmental Modelling & Software*, 17(3), 269–285. DOI: [https://doi.org/10.1016/S1364-8152\(01\)00072-X](https://doi.org/10.1016/S1364-8152(01)00072-X)
- Lopes, A. M. G., Sousa, A. C. M., & Viegas, D. X. (1995). Numerical simulation of turbulent flow and fire propagation in complex topography. *Numerical Heat Transfer, Part A: Applications*, 27(2), 229–253. DOI: <https://doi.org/10.1080/10407789508913698>
- Lourenco, L. (2001). Lumes na interface urbano-florestal. In *Unha Nova Xeración de Lumes? Actas do Coloquio Galaico-Portugués Sobre Incendios Forestais; Consello da Cultura Galega*: Santiago, Spain, 205–232.
- Lourenco, L., Pinto, C., Saloio, P. (2020). Risco de Incêndio Florestal no Pinhal Interior. Livro Guia da Visita Técnica 2020; RISCOS - Associação Portuguesa de Riscos, Prevenção e Segurança: Coimbra, Portugal. URL: https://www.riscos.pt/wp-content/uploads/2018/Outras_Pub/guias/eBook_LG_Riscos-IF_PT.pdf
- Lovreglio, R., Kuligowski, E., Gwynne, S., & Strahan, K. (2019). A modelling framework for householder decision-making for wildfire emergencies. *International Journal of Disaster Risk Reduction*, 41, 101274. DOI: <https://doi.org/10.1016/j.ijdr.2019.101274>
- Mahmassani, H. S. (1992). Dynamic traffic assignment and simulation for advanced network informatics (DYNASMART). *The 2nd International Seminar on Urban Traffic Networks*.
- Mahmassani, H. S., & Abdelghany, K. F. (2002). Dynasmart-IP: Dynamic Traffic Assignment Meso-Simulator for Intermodal Networks. In *Advanced Modeling for Transit Operations and Service Planning* (pp. 200–229). Emerald Group Publishing Limited. DOI: <https://doi.org/10.1108/9780585475226-008>
- Manzello, S. L., Bianchi, R., Gollner, M. J., Gorham, D., McAllister, S., Pastor, E., Planas, E., Reszka, P., Suzuki, S. (2018). “Summary of Workshop Large Outdoor Fires and the Built Environment”, *Fire safety journal*, 100, DOI: <https://doi.org/10.1016/j.firesaf.2018.07.002>
- Marom, I. and Toledo, T. (2021). “Activities and social interactions during disaster evacuation,” *International Journal of Disaster Risk Reduction* 61.
- Martin, R. E. (1988). Fire Rate of Spread Calculation for Two Fuels. *Western Journal of Applied Forestry*, 3(2), 54–55. DOI: <https://doi.org/10.1093/wjaf/3.2.54>
- Masoudian, S., Sharples, J., Jovanoski, Z., Towers, I., & Watt, S. (2023). Incorporating Stochastic Wind Vectors in Wildfire Spread Prediction. *Atmosphere*, 14(11). DOI: <https://doi.org/10.3390/atmos14111609>
- McCaffrey, S. (2015). Community Wildfire Preparedness: A Global State-of-the-Knowledge Summary of Social Science Research. *Curr. For. Rep.*, 1, 81–90.
- McLennan, J., Elliott, G., & Omodei, M. (2012). Householder decision-making under imminent wildfire threat: stay and defend or leave? *International Journal of Wildland Fire*, 21(7), 915. DOI: <https://doi.org/10.1071/WF11061>
- McCaffrey, S., Wilson, R., & Konar, A. (2018). Should I Stay or Should I Go Now? Or Should I Wait and See? Influences on Wildfire Evacuation Decisions. *Risk Analysis*, 38(7), 1390–1404. DOI: <https://doi.org/10.1111/risa.12944>
- McDermott, R. J., Forney, G., McGrattan, K., & Mell, W. (2010). Fire dynamics simulator version 6: complex geometry, embedded meshes, and quality assessment. In J. C. F. Pereira & A. Sequeira (Eds.), *V European Conference on Computational Fluid Dynamics ECCOMAS CFD 2010*.
- McGrattan, K. B., & Forney, G. P. (2004). *Fire dynamics simulator (version 4)*. DOI: <https://doi.org/10.6028/NIST.SP.1019>.
- McGrattan, K., Klein, B., Hostikka, S., & Floyd, J. (2008). Fire dynamics simulator (version 5), user's guide. NIST Special Publication, 1019(6).

- McLennan, J., Ryan, B., Bearman, C., & Toh, K. (2019). Should We Leave Now? Behavioral Factors in Evacuation Under Wildfire Threat. *Fire Technology*, 55(2), 487–516.
DOI: <https://doi.org/10.1007/s10694-018-0753-8>.
- McLennan, J., Elliott, G., and Omodei, M. (2012). “Householder decision-making under imminent wildfire threat: stay and defend or leave?,” *International Journal of Wildland Fire* 21, 915–925.
- McLennan, J., Elliott, M., Omodei M.M., Whittaker, J. (2013). “Householders’ safety-related decisions, plans, actions and outcomes during the 7 February 2009 Victorian (Australia) wildfires,” *Fire Safety Journal* 61, 175–184.
- McNeill, I. M., Dunlop, P. D., Skinner, T. C. (2015). Morrison, D.L. Predicting delay in residents’ decisions on defending v. Evacuating through antecedents of decision avoidance. *Int. J. Wildland Fire*, 24, 153–161. DOI: <https://doi.org/10.1071/wf12213>
- Mell, W., Jenkins, M. A., Gould, J., & Cheney, P. (2007). A physics-based approach to modelling grassland fires. *International Journal of Wildland Fire*, 16(1), 1.
DOI: <https://doi.org/10.1071/WF06002>
- Melton, C. C., De Fries, C. M., Smith, R. M., Mason, L. R. (2023). Wildfires and Older Adults: A Scoping Review of Impacts, Risks, and Interventions. *Int. J. Environ. Res. Public Health*, 20, 6252, PMID: 37444100; PMCID: PMC10341407. DOI: <https://doi.org/10.3390/ijerph20136252>
- Mendes, J. M., Tavares, A. O., Cunha L., Freiria, S. (2015). “A vulnerabilidade social aos perigos naturais e tecnológicos em Portugal,” *Revista Crítica de Ciências Sociais*, 93. URL: <http://rccs.revues.org/90>
- Mesa-Arango, R., Hasan, S., Ukkusuri, S. V., & Murray-Tuite, P. (2013). Household-Level Model for Hurricane Evacuation Destination Type Choice Using Hurricane Ivan Data. *Natural Hazards Review*, 14(1), 11–20. DOI: [https://doi.org/10.1061/\(ASCE\)NH.1527-6996.0000083](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000083)
- Mitchell, H., Gwynne, S., Ronchi, E., Kalogeropoulos, N., & Rein, G. (2023). Integrating wildfire spread and evacuation times to design safe triggers: Application to two rural communities using PERIL model. *Safety Science*, 157, 105914. DOI: <https://doi.org/10.1016/j.ssci.2022.105914>
- Mitsopoulos, I., Mallinis, G., Arianoutsou, M. (20125). Wildfire Risk Assessment in a Typical Mediterranean Wildland–Urban Interface of Greece. *Environ. Manag.*, 55, 900–915.
- Molina-Terrén, D. M., Xanthopoulos, G., Diakakis, M., Ribeiro, L., Caballero, D., Delogu, G. M., Viegas, D. X., Silva, C. A., Cardil, A. (2019). Analysis of forest fire fatalities in Southern Europe: Spain, Portugal, Greece and Sardinia (Italy). *Int. J. Wildland Fire*, 28, 85–98.
- Moreira, F., Ascoli, D., Safford, H., Adams, M. A., Moreno, J. M., Pereira, J. M., ... & Fernandes, P. M. (2020). Wildfire management in Mediterranean-type regions: paradigm change needed. *Environmental Research Letters*, 15(1), 011001.
DOI: <https://doi.org/10.1088/1748-9326/ab541e>
- Moreira, M. J. G., & Pinheira, V. (2023). To stay or to leave: perspectives of residence after the retirement of residents in urban or rural areas in portuguese inland regions. *Finisterra*, 58(123).
DOI: <https://doi.org/10.18055/Finis31371>
- Moritz, M. A., Batllori, E., Bradstock, R. A., Gill, A. M., Handmer, J., Hessburg, P. F., ... & Syphard, A. D. (2014). Learning to coexist with wildfire. *Nature* 2014, 515, 58–66.
- Moscovici, s. (2008). *Psychoanalysis: Its Image and Its Public*, Cambridge, Polity Press.
- Mourão, P. R., Martinho, V. D. (2014). “The choices of the fire — Debating socioeconomic determinants of the fires observed at Portuguese municipalities,” *Forest Policy and Economics*. 43, 29–40.
DOI: <https://doi.org/10.1016/j.forpol.201>
- Moriarty, K. D., Ni, D., & Collura, J. (2007). *Modeling traffic flow under emergency evacuation situations: Current practice and future directions*.

- Morvan, D. (2011). Physical Phenomena and Length Scales Governing the Behaviour of Wildfires: A Case for Physical Modelling. *Fire Technology*, 47(2), 437–460.
DOI: <https://doi.org/10.1007/s10694-010-0160-2>
- Murray-Tuite, P. M., & Mahmassani, H. S. (2003). Model of Household Trip-Chain Sequencing in Emergency Evacuation. *Transportation Research Record: Journal of the Transportation Research Board*, 1831(1), 21–29. DOI: <https://doi.org/10.3141/1831-03>
- Murray-Tuite, P., & Wolshon, B. (2013). Evacuation transportation modeling: An overview of research, development, and practice. *Transportation Research Part C: Emerging Technologies*, 27, 25–45.
DOI: <https://doi.org/10.1016/j.trc.2012.11.005>
- Murray-Tuite, P., Yin, W., Ukkusuri, S. V., & Gladwin, H. (2012). Changes in Evacuation Decisions between Hurricanes Ivan and Katrina. *Transportation Research Record: Journal of the Transportation Research Board*, 2312(1), 98–107. DOI: <https://doi.org/10.3141/2312-10>
- Nagel, K., Beckman, R. J., & Barret, C. L. (1999, September). TRANSIMS for urban planning. *6th International Conference on Computers in Urban Planning and Urban Management*.
- NASA MODIS FIRE INFORMATION FOR RESOURCE MANAGEMENT SYSTEM. (n.d.). FIRMS: Fire information for resource management. URL: <https://firms.modaps.eosdis.nasa.gov/download/> (n.d.).
- Neto, J., Morais, A. J., Gonçalves, R., Coelho, A. L. (2023). Guiding Evacuees to Improve Fire Building Evacuation Efficiency: Hazard and Congestion Models to Support Decision Making by a Context-Aware Recommender System. *Buildings*, 13, 3038.
- Neis, P., Zielstra, D., & Zipf, A. (2011). The Street Network Evolution of Crowdsourced Maps: OpenStreetMap in Germany 2007–2011. *Future Internet*, 4(1), 1–21.
DOI: <https://doi.org/10.3390/f4010001>
- Nelson Jr, R. M. (2000). Prediction of diurnal change in 10-h fuel stick moisture content. *Canadian Journal of Forest Research*, 30(7), 1071–1087. DOI: <https://doi.org/10.1139/x00-032>
- Niu, C., Nair, D. J., Zhang, T., Dixit, V., & Murray-Tuite, P. (2022). Are wildfire fatalities related to road network characteristics? A preliminary analysis of global wildfire cases. *International Journal of Disaster Risk Reduction*, 80, 103217. DOI: <https://doi.org/10.1016/j.ijdr.2022.103217>
- North, M. P., Stephens, S. L., Collins, B. M., Agee, J. K., Aplet, G., Franklin, J. .F., Fulé, P. Z. (2015). Reform forest fire management. *Science*, 349, 1280–1281.
- Nunes, A., Lourenco, L., Castro-Meira, A. (2016). Exploring spatial patterns and drivers of forest fires in Portugal (1980–2014). *Sci. Total Environ.*, 573, 1190–1202.
- Nunes, A. N., Figueiredo, A., Pinto, C., Lourenco, L. (2023). Assessing Wildfire Hazard in the Wildland–Urban Interfaces (WUIs) of Central Portugal. *Forests*, 14, 1106.
- Nunes, A. N., Pinto, C. D., Figueiredo, A., Lourenco, L. (2024). Planning Wildfire Evacuation in the Wildland – Urban Interfaces of Central Portugal. *Fire*, 7, 199.
DOI: <https://doi.org/10.3390/fire7060199>
- Oliva, P., & Schroeder, W. (2015). Assessment of VIIRS 375m active fire detection product for direct burned area mapping. *Remote Sensing of Environment*, 160, 144–155.
DOI: <https://doi.org/10.1016/j.rse.2015.01.010>
- Oliveira, S., Goncalves, A., Benali, A., Sá, A., Zêzere, J. L., Pereira, J. M. (2020). Assessing Risk and Prioritizing Safety Interventions in Human Settlements Affected by Large Wildfires. *Forests*, 11, 859.
- Oliveira, S., Goncalves, A., Zêzere, J. L. (2020). Reassessing wildfire susceptibility and hazard for mainland Portugal. *Sci. Total Environ.*, 762, 143121.

- Oliveira, S., Zêzere, J. L. (2020). Assessing the biophysical and social drivers of burned area distribution at the local scale. *J. Environ. Manag.*, 264, 110449.
- Ojerio, R., Moseley, C., Lynn, K., & Bania, N. (2011). Limited involvement of socially vulnerable populations in federal programs to mitigate wildfire risk in Arizona. *Natural Hazards Review*, 12(1), 28–36.
- OBSERVATÓRIO TÉCNICO INDEPENDENTE (2020). “Segurança das Comunidades em Incêndios Florestais – Uma Análise dos Programas “Aldeia Segura” e “Pessoas Seguras”,”
- Paek H.-J. , Hove, T. (2017). “Risk Perceptions and Risk Characteristics” *Oxford Encyclopedia of communication*, Oxford, Oxford University Press.
DOI: <https://doi.org/10.1093/acrefore/9780190228613.013.283>
- Palaiologou, P., Ager, A. A., Nielsen-Pincus, M., Evers, C. R., Day, M. A. (2019). Social vulnerability to large wildfires in the western USA. *Landsc. Urban Plan.*, 189, 99–116.
- Papadopoulos, G. D., & Pavlidou, F.-N. (2011). A Comparative Review on Wildfire Simulators. *IEEE Systems Journal*, 5(2), 233–243. DOI: <https://doi.org/10.1109/JSYST.2011.2125230>
- Parsa, V., Santiago, A., Laím, L. (2025). Computational Fluid Dynamics of Compartment Fires: A Review of Methods and Applications. *Appl. Sci.*, 15, 2342.
DOI: <https://doi.org/10.3390/app15052342>
- Pastor, E., Zárate, L., Planas, E., & Arnaldos, J. (2003). Mathematical models and calculation systems for the study of wildland fire behaviour. *Progress in Energy and Combustion Science*, 29(2), 139–153.
DOI: [https://doi.org/10.1016/S0360-1285\(03\)00017-0](https://doi.org/10.1016/S0360-1285(03)00017-0)
- Pastor, E., Munoz, J.A., Caballero, D., Àgueda, A., Dalmau, F., Planas, E. (2020). Wildland–Urban Interface Fires in Spain: Summary of the Policy Framework and Recommendations for Improvement. *Fire Technol.*, 56, 1831–1851.
- Paul, P. M. (1969). *Field Practices in forest fire danger rating*.
- Pekovic, V., Seff, L., Rothman, M. (2007). Planning for and Responding to Special Needs of Elders in Natural Disasters. *Generations*, 31, 37–41.
- Pel, A. J., Bliemer, M. C. J., & Hoogendoorn, S. P. (2012). A review on travel behaviour modelling in dynamic traffic simulation models for evacuations. *Transportation*, 39(1), 97–123.
DOI: <https://doi.org/10.1007/s11116-011-9320-6>
- Penman, T. D., Eriksen, C., Blanchi, R., Chladil, M., Gill, A. M., Haynes, K., Leonard, J., McLennan, J., & Bradstock, R. A. (2013). Defining adequate means of residents to prepare property for protection from wildfire. *International Journal of Disaster Risk Reduction*, 6, 67–77.
DOI: <https://doi.org/10.1016/j.ijdr.2013.09.001>
- Perry, R. W., Lindell, M. K., & Tierney, K. J. (2001). *. Facing the unexpected: Disaster preparedness and response in the United States*. Joseph Henry Press.
- Pinto, C. (2022). *Avaliação do Risco de Incêndio Florestal em Interfaces Urbano-Florestais da Região Centro* (Master's Thesis). University of Coimbra, Coimbra, Portugal, Available online: <https://estudogeral.uc.pt/handle/10316/102629> (accessed on 30 November 2023).
- PMEPC—PLANO MUNICIPAL DE EMERGÊNCIA DE PROTEÇÃO CIVIL DO MUNICÍPIO DA SERTÁ. Available online: <https://cm-serta.pt/municipio/prot-civil/117-cat-protecao-civil/334-prot-civ-plano-mun-emergencia> (accessed on 10 January 2024).
- PMEPC—PLANO MUNICIPAL DE EMERGÊNCIA DE PROTEÇÃO CIVIL DO MUNICÍPIO DA LOUSÁ. Available online: <https://cm-lousa.pt/wpcontent/uploads/2021/02/PMEPC-2019.pdf> (accessed on 15 January 2024).
- Podur, J., Wotton, M. (2010). Will climate change overwhelm fire management capacity? *Ecol. Model.*, 221, 1301–1309.

- Rego, F. C., Fernandes, P., Silva, J. S., Azevedo, J., Moura, J. M., Oliveira, E., ... & Santos, F. D. (2020). Segurança das comunidades em incêndios florestais: uma análise dos programas “Aldeia Segura” e “Pessoas Seguras”. Lisboa: Assembleia da República.
DOI: <https://doi.org/10.13140/RG.2.2.32942.33604>
- REPÚBLICA PORTUGUESA, “Portaria n.º 135/2020 de 2 de junho,” *Diário da Republica*, 2020.
- REPÚBLICA PORTUGUESA, “Portaria n. 301/2020 de 24 de Dezembro, *Aprova a delimitação dos territórios vulneráveis com base nos critérios fixados no artigo 2.º do Decreto-Lei n.º 28-A/2020, de 26 de junho.*, 2020.
- Qin, H., Gao, X. (2019). How Fire Risk Perception Impacts Evacuation Behavior: A Review of the Literature. In *Engineering Psychology and Cognitive Ergonomics*; Harris, E.D., Ed., Springer International Publishing: Berlin/Heidelberg, Germany, 396–409.
- Quarles, S. L., Valachovic, Y., Nakamura, G. M., Nader, G. A., de Lasaux, M. J. (2010). *Home Survival in Wildfire-Prone Areas: Building Materials and Design Considerations*; ANR Publications: Davis, CA, USA.
- Ramirez, J., Monedero, S., & Buckley, D. (2011). New approaches in fire simulations analysis with Wildfire Analyst. *Proceedings of the 5th International Wildland Fire Conference*.
- Rego, F. C., & Silva, J. S. (2014). Wildfires and landscape dynamics in Portugal: A regional assessment and global implications. In *Forest landscapes and global change: Challenges for research and management* (pp. 51-73). New York, NY: Springer New York.
- Renn, O., Burns, W. J. (1992). “The Social Amplification of Risk: Theoretical Foundations and Empirical Applications” *Journal of Social Issues*, 48, 137-160.
DOI: <https://doi.org/10.1111/j.1540-4560.1992.tb0194>
- Rein, G., Ronchi, E., Gwynne, S. M., Wadhwani, R. e Intini, P. (2017). “e-Sanctuary: Open Multi-Physics Framework for Modelling Wildfire Urban Evacuation”.
- Richards, G. D. (1990). An elliptical growth model of forest fire fronts and its numerical solution. *International Journal for Numerical Methods in Engineering*, 30(6), 1163–1179.
DOI: <https://doi.org/10.1002/nme.1620300606>
- Ronchi, E., Gwynne, S. M. V., Rein, G., Intini, P., & Wadhwani, R. (2019). An open multi-physics framework for modelling wildland-urban interface fire evacuations. *Safety Science*, 118, 868–880.
DOI: <https://doi.org/10.1016/j.ssci.2019.06.009>
- Rodrigues, A., Santiago, A., Laím, L., Viegas, D. X., Zêzere, J. L. (2022). Rural Fires—Causes of Human Losses in the 2017 Fires in Portugal. *Appl. Sci.*, 12, 12561.
- Rodrigues, A., Santiago, A., Laím, L., Viegas, D. X., Zêzere, J. L. (2023). Velocidade de Evacuac.o Pedonal em Cenário de Incêndio—Caso de Estudo de Caban.es. Atas das 8.as Jornadas de Seguranc.a Aos Incêndios Urbanos e as 3as Jornadas de Protec.o Civil.
URL: https://repositorio.ipcb.pt/bitstream/10400.11/8552/1/LIVRO_ATAS.pdf
- Rodrigues, A., Santiago, A., Viegas, D. X., Zêzere, J. L. (2025). The Role of Parish Councils in Georeferencing for Emergency Planning: Approach and Methods. *Proceedings*, 113, 18.
DOI: <https://doi.org/10.3390/proceedings2025113018>
- Rontiris, K., & Crous, W. (2000). Emergency evacuation modeling for the Koeberg nuclear power station. *2nd Asian EMME12 User's Meeting*.
- Ross, D. G., Smith, I. N., & Fox, D. G. (1988). Diagnostic Wind Field Modeling for Complex Terrain: Model Development and Testing. *Journal of Applied Meteorology*, 27(7), 785–796.
- Rothermel, R. (1983). How to predict the spread and intensity of forest and range fires. *US Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station*, 143.

- Rothermel, R. C. (1972). A mathematical model for predicting fire spread in wildland fuels. *Intermountain Forest & Range Experiment Station, Forest Service, US Department of Agriculture*, 115.
- Rothermel, R. C. (1991a). Predicting behavior and size of crown fires in the Northern Rocky Mountains. US Department of Agriculture, Forest Service, *Intermountain Research Station*, 438.
- Rothermel, R. C. (1991b). Predicting behavior and size of crown fires in the Northern Rocky Mountains. US Department of Agriculture, Forest Service, *Intermountain Research Station*, 438.
- Rothermel, R. C., & Rinehart, G. C. (1983). *Field procedures for verification and adjustment of fire behavior predictions*.
- Sadri, A. M., Ukkusuri, S. V., Murray-Tuite, P., & Gladwin, H. (2014). Analysis of hurricane evacuee mode choice behavior. *Transportation Research Part C: Emerging Technologies*, 48, 37–46. DOI: <https://doi.org/10.1016/j.trc.2014.08.008>
- Sadri, A. M., Ukkusuri, S., Ahmed, M. A. (2021). "Review of social influence in crisis communications and evacuation decision-making," *Transportation Research Interdisciplinary Perspectives*. 9., 2021. 100325. DOI: <https://doi.org/10.1016/j.trip.2021.100325>
- Sankey, S. (2018). Canada. Natural Resources Canada, & Northern Forestry Centre (Canada). Blueprint for wildland fire science in Canada (2019-2029).
- Shahparvari, S., Abbasi, B., Chhetri, P., & Abareshi, A. (2019). Fleet routing and scheduling in bushfire emergency evacuation: A regional case study of the Black Saturday bushfires in Australia. *Transportation Research Part D: Transport and Environment*, 67, 703–722. DOI: <https://doi.org/10.1016/j.trd.2016.11.015>
- Show, S. B. (1919). Climate and Forest Fires in Northern California. *Journal of Forestry*, 17(8), 965–979.
- Schroeder, W., Oliva, P., Giglio, L., & Csiszar, I. A. (2014). The New VIIRS 375 m active fire detection data product: Algorithm description and initial assessment. *Remote Sensing of Environment*, 143, 85–96. DOI: <https://doi.org/10.1016/j.rse.2013.12.008>
- Scott, J. H., & Burgan, R. E. (2005). Standard fire behavior fuel models: a comprehensive set for use with Rothermel's surface fire spread model. *USDA Forest Service, Rocky Mountain Research Station General Technical Report RMRS-GTR-153*, 153.
- Shahparvari, S., Abbasi, B., Chhetri, P., & Abareshi, A. (2019). Fleet routing and scheduling in bushfire emergency evacuation: A regional case study of the Black Saturday bushfires in Australia. *Transportation Research Part D: Transport and Environment*, 67, 703–722. DOI: <https://doi.org/10.1016/j.trd.2016.11.015>
- Siam, M. R. K., Wang, H., Lindell, M. K., Chen, C., Vlahogianni, E. I., & Axhausen, K. (2022). An interdisciplinary agent-based multimodal wildfire evacuation model: Critical decisions and life safety. *Transportation Research Part D: Transport and Environment*, 103. DOI: <https://doi.org/10.1016/j.TRD.2021.103147>.
- Silva, P., Carmo, M., Rio, J., & Novo, I. (2023). Changes in the Seasonality of Fire Activity and Fire Weather in Portugal: Is the Wildfire Season Really Longer? *Meteorology*, 2(1), 74–86. DOI: <https://doi.org/10.3390/meteorology2010006>
- Sin, H. G., & Joo, Y. J. (2013). A study on prototype model for mesoscopic evacuation using Cube Avenue simulation model. *Spatial Information Research*, 21(5), 33–41.
- Sin, H. G., & Joo, Y. J. (2017). Development of urban disaster evacuation model using Cube Avenue. *Spatial Information Research*, 25(3), 513–521. DOI: <https://doi.org/10.1007/s41324-017-0113-7>
- Sil, Â., Fernandes, P.M., Rodrigues, A.P., Alonso, J. M., Honrado, J. H., Pereira, A., Azevedo, J.C. (2019). Farmland abandonment decreases the fire regulation capacity and the fire protection ecosystem service in mountain landscapes. *Ecosyst. Serv.*, 36, 100908.

- Syphard, A. D., Rustigian-Romsos, H., Keeley, J. E. (2021). Multiple-Scale Relationships between Vegetation, the Wildland–Urban Interface, and Structure Loss to Wildfire in California. *Fire*, 4, 12.
- Slovic, P., Weber, E. (2002). “Perception of Risk Posed by Extreme Events” *Paper apresentado na conferência Risk Management strategies in an Uncertain World*, Palisades, Nova Iorque.
- Smith, L., Beckman, R., & Baggerly, K. (1995). *TRANSIMS: Transportation analysis and simulation system*. DOI: <https://doi.org/10.2172/88648>
- Sorensen, J. H., Sorensen, B. V., Smith, A., & Williams, Z. (2009). *Results of an investigation of the effectiveness of using reverse telephone emergency warning systems in the October 2007 San Diego Wildfires*.
- Stasiewicz, A. M., Paveglio, T. B. (2016). Factors Influencing the Development of Rangeland Fire Protection Associations: Exploring Fire Mitigation Programs for Rural, Resource-Based Communities. *Soc. Nat. Resour.*, 30, 627–641.
- Stasiewicz, A., Paveglio, M., Travis, B. (2021). “Preparing for wildfire evacuation and alternatives: Exploring influences on residents’ intended evacuation behaviors and mitigations”, *International Journal of Disaster Risk Reduction*, Volume 58.
- Steer, K., Abebe, E., Almashor, M., Beloglazov, A., & Zhong, X. (2017). On the utility of shelters in wildfire evacuations. *Fire Safety Journal*, 94, 22–32. DOI: <https://doi.org/10.1016/j.firesaf.2017.09.001>
- Stein, R., Dueñas-Orsorio L., Subramanian, D. (2010). “Who Evacuates When Hurricanes Approach? The Role of Risk, Information, and Locatio” *Social Science Quarterly*, 91., 816–84. DOI: <https://doi.org/10.1111/j.1540-6237.2010.00721.x>
- Strahan, K. W., Whittaker, J., & Handmer, J. (2019). Predicting self-evacuation in Australian bushfire. *Environmental Hazards*, 18(2), 146–172. DOI: <https://doi.org/10.1080/17477891.2018.1512468>
- Sullivan, A. (2009). Wildland surface fire spread modelling, 1990–2007. *International Journal of Wildland Fire*, 18(4), 349–403.
- Sun, Y. H., Wang, F. M., & Zhang, F. L. (2015). Application of TransCAD Macro Simulation in Traffic Planning. *Journal of Luoyang Institute of Science and Technology. (Natural Science Edition)*, 3(6).
- Strahan, K., Gilbert, J. (2021). Protective Decision-Making in Bushfire Part 1: A Rapid Systematic Review of the ‘Wait and See’ Literature. *Fire*, 4, 4. DOI: <https://doi.org/10.3390/fire4010004>
- Tedim F., Carvalho, S. (2013). “Vulnerabilidade aos incêndios florestais: reflexões em torno de aspetos conceptuais e metodológicos,” *Territorium – Revista da Associação Portuguesa de Riscos, Prevenção e Segurança*, 20: Riscos, População e Segurança, ISSN: 0872-8941, 85-99. DOI: http://dx.doi.org/10.14195/1647-7723_20_8
- Tedim, F., Leone, V., Xanthopoulos, G. (2016). “A wild fire risk management concept based on a social-ecological approach in the European Union: Fire Smart Territory” *International Journal of Disaster Risk Reduction* 18, 138-153.
- Tedim, F. (2018). O futuro dos incêndios rurais em Portugal: Será possível construir uma sociedade resiliente a eventos extremos? In *O Rural Depois do Fogo*; Escola Superior Agrária, Instituto Politécnico de Coimbra (ESAC/IPC): Coimbra, Portugal, 239–258.
- Tedim, F., Leone, V., McCaffrey, S., McGee, T.K., Coughlan, M., Correia, F. J. M., Magalhães, C. G. (2020). Safety enhancement in extreme wildfire events. In *Extreme Wildfire Events and Disasters*; Tedim, F., Leone, V., McGee, T.K., Eds., Elsevier: Amsterdam, The Netherlands, 91–115.
- Tedim, F., Pinto, D.M., Correia, F. (2022). A Segurança das Populações aos Incêndios Rurais em Portugal: As Potencialidades e Fragilidades dos Programas «Aldeia Segura» e «Pessoas Seguras», 2022. *Atas XVII Coloquio Ibérico de Geografia: Nuevas Fronteras y Nuevos Horizontes en la Geografía Ibérica: Políticas y Transformaciones Territoriales*, 301–311. Available online: <https://repositorio-aberto.up.pt/handle/10216/144933> (accessed on 20 June 2023).

- Thompson, M. P., Bowden, P., Brough, A., Scott, J.H., Gilbertson-Day, J., Taylor, A., Anderson, J., Haas, J. R. (2016). Application of Wildfire Risk Assessment Results to Wildfire Response Planning in the Southern Sierra Nevada, California, USA. *Forest*, 7, 64.
- Toledo, T., Marom, I., Grimberg, E., & Bekhor, S. (2018). Analysis of evacuation behavior in a wildfire event. *International Journal of Disaster Risk Reduction*, 31, 1366–1373.
DOI: <https://doi.org/10.1016/j.ijdr.2018.03.033>
- Tymstra, C. (2010). *Development and structure of Prometheus: the Canadian wildland fire growth simulation model*.
- Van Wagner, C. E. (1968). The Line Intersect Method in Forest Fuel Sampling. *Forest Science*, 14(1), 20–26.
- Vaqueiro, N. M. F. (2022). Prevenção e Mitigação de Incêndios Florestais na Interface Urbano Florestal: Análise dos Programas Aldeia Segura e Pessoas Seguras. Master's Thesis, Universidade de Coimbra, Coimbra, Portugal. Available online: <https://estudogeral.uc.pt/handle/10316/104092> (accessed on 20 October 2023).
- Viegas, D. X., Almeida, M., Ribeiro, L. (2017). *O complexo de incêndios de Pedrogão Grande e concelhos limítrofes, iniciado a 17 de junho de 2017*. Centro de Estudos sobre Incêndios Florestais da Universidade de Coimbra.
- Viegas, D. X. (2012). “Relatório do Incêndio de Tavira/São Brás de Alportel,” Centro de Estudos de Incêndios Florestais - ADAI, Coimbra.
- Veeraswamy, A., Galea, E. R., Filippidis, L., Lawrence, P. J., Haasanen, S., Gazzard, R. J., & Smith, T. E. L. (2018). The simulation of urban-scale evacuation scenarios with application to the Swinley forest fire. *Safety Science*, 102, 178–193. DOI: <https://doi.org/10.1016/j.ssci.2017.07.015>
- Wachinger, G., Renn, O., Begg, C., Kuhlicke, C. (2013). “The Risk Perception Paradox—Implications for Governance and Communication of Natural Hazards,” *Risk Analysis*, vol. 33(6), 1049–1065.
- Wagner, C. E. Van. (1977). Conditions for the start and spread of crown fire. *Canadian Journal of Forest Research*, 7(1), 23–34. DOI: <https://doi.org/10.1139/x77-004>
- Walpole, H. D., Wilson, R. S., McCaffrey, S. M. (2020). If you love it, let it go: The role of home attachment in wildfire evacuation decisions. *Environ. Syst. Decis.*, 40, 29–40.
- Wahlqvist, J., Ronchi, E., Gwynne, S.M., Kinatader, M., Rein, G., Mitchell, H., Bénichou, N., Ma, C., Kimball, A., Kuligowski, E. (2021). The simulation of wildland-urban interface fire evacuation: The WUI-NITY platform. *Saf. Sci.*, 136, 105145.
- Webster, J. (2000). *The Complete Bushfire Safety Book*, Random House Australia.
- Wigtil, G., Hammer, R. B., Kline, J. D., Mockrin, M. H., Stewart, S. I., Roper D., Radeloff, V. C. (2016). “Places where wildfire potential and social vulnerability coincide in the coterminous United States” *International Journal of Wildland Fire*, 25, 896–908.
DOI: <https://doi.org/10.1071/WF15109>
- Wilmot, C. G., & Meduri, N. (2005). Methodology to Establish Hurricane Evacuation Zones. *Transportation Research Record: Journal of the Transportation Research Board*, 1922(1), 129–137.
DOI: <https://doi.org/10.1177/0361198105192200117>
- Wolshon, P. B. (2009). *Transportation's role in emergency evacuation and reentry*.
- Wong, S. D., Broader, J.C., Shaheen, S. A. (2020). Review of California Wildfire Evacuations from 2017 to 2019. UC Office of the President: University of California Institute of Transportation Studies. Available online: <https://escholarship.org/uc/item/5w85z07g> (accessed on 2 June 2022).
- Wong, S. D., Broader, J. C., & Shaheen, S. A. (2020). *Review of California Wildfire Evacuations from 2017 to 2019*. UC Office of the President: University of California Institute of Transportation Studies.

- Wu, H.-C., Lindell, M. K., & Prater, C. S. (2012). Logistics of hurricane evacuation in Hurricanes Katrina and Rita. *Transportation Research Part F: Traffic Psychology and Behaviour*, 15(4), 445–461. DOI: <https://doi.org/10.1016/j.trf.2012.03.005>
- Xanthopoulos, G., Calfapietra, C., Fernandes, P. (2012). Fire Hazard and Flammability of European Forest Types. In *Post-Fire Management and Restoration of Southern European Forests*; Springer: Dordrecht, The Netherlands, Volume 24, 79–92.
- Zikeloglou, I., Lekkas, E., Lozios, S., Stavropoulou, M. (2023). Is early evacuation the best and only strategy to protect and mitigate the effects of forest fires in WUI areas? A qualitative research on the residents' response during the 2021 forest fires in NE Attica, Greece. *Int. J. Disaster Risk Reduct.*, 88, 103612.