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Nature Communications 7 1 , 10244-10244 Sumaila UR, Lam V, Le Manach F, Swartz W and Pauly D 2016 Global fisheries subsidies: an updated estimate. In particular, RNNs were used for fire behavior prediction ; , and fire occurrence prediction.

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In section 2, we discuss commonly used ML methods, focusing on those most commonly encountered in wildfire science.

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It is noteworthy that surface fire danger measures may be correlated with large-scale weather and climatic patterns. Ethics in Science and Environmental Politics 14 1 : 1-5. SVMs have been widely used for both classification and regression problems, although recently developed DL algorithms have proven to be more efficient than SVMs given a large amount of training data; however, for problems with limited training samples, SVMs might give better performances than DL-based classifiers.

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This relies heavily on computer and information sciences, biostatistics, and bioinformatics. Integration of subsystem models as a tool toward describing feeding interactions and fisheries impacts in a Large Marine Ecosystem, the Gulf of Mexico.

A review of machine learning applications in wildfire science and management

Zhai L and Pauly D 2020 Construction and interpretation of particle size idstribution spectra from 19 Ecopath models of Chinese coastal ecosystems.

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All ML methods, however, performed better than conventional multiple regression techniques. In recent noncomparative studies, used RF to predict fire risk ratings in Cambodia using publicly available remotely sensed products, while used RF to predict fire occurrence in Puerto Rico and found precipitation to be the most important predictor.

Brian D. Athey, Ph.D.

Marine mammal impacts in exploited ecosystems: would large-scale culling benefit fisheries? For example, self-organizing maps SOMs are a form of ANN adapted for dealing with spatial data and have therefore found widespread use in the atmospheric sciences.

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Leith EN, Mills KD, Deslaurier L, Grannell SM, Hoover BG, Dilworth DS, Chen HS, Shih MP, Lopez J, Athey BD 2001 Information Optics Concepts Applied to Image Formation in Highly Scattering Media. ICES Journal of Marine Science 48: 195-200.

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