



Classifying seismograms using the FastMap algorithm and support-vector machines

Malcolm C. A. White¹✉, Kushal Sharma², Ang Li², T. K. Satish Kumar² & Nori Nakata^{1,3}

Neural networks and related deep learning methods are currently at the leading edge of technologies used for classifying complex objects such as seismograms. However they generally demand large amounts of time and data for model training and their learned models can sometimes be difficult to interpret. FastMapSVM is an interpretable machine learning framework for classifying complex objects, combining the complementary strengths of FastMap with support vector machines (SVMs) and extending the applicability of SVMs to domains with complex objects. FastMap is an efficient linear-time algorithm that maps complex objects to points in a Euclidean space while preserving pairwise domain-specific distances between them. Here we invoke FastMapSVM as a lightweight alternative to neural networks for classifying seismograms. We demonstrate that FastMapSVM outperforms other state-of-the-art methods for classifying seismograms when train data or time is limited. We also show that FastMapSVM can provide an insightful visualization of seismogram clustering behaviour and thus earthquake classification boundaries. We expect FastMapSVM to be viable for classification tasks in many other real-world domains.

¹Massachusetts Institute of Technology, Cambridge, MA 02139, USA. ²University of Southern California, Los Angeles, CA 90087, USA. ³Lawrence Berkeley National Laboratory, Berkeley, CA 94720, USA. ✉email: malcolmw@mit.edu

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