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Detecting rainfall events in CML attenuation time series using convolutional neural networks

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CML data might exhibit high signal fluctuations, even during dry periods. At the same time the number of newly available CMLs is rising fast. It is necessary to develop a technique to recognise the pattern of rainfall in CML signal levels, that is (1) generalizing to previously unknown sensors, (2) stable in time and (3) showing better performance than established methods. We therefore introduce convolutional neural networks to the task of wet/dry classification and test them on data from a German-wide CML network.

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