

cases	doc_1		doc_2		decision	id
					DUPLICATES	60
	authors	<ul style="list-style-type: none">Pierre ThodoroffJoelle PineauAndrew Lim	authors	<ul style="list-style-type: none">Pierre ThodoroffJoelle PineauAndrew Lim		
	title	Learning Robust Features using Deep Learning for Automatic Seizure Detection	title	Learning Robust Features using Deep Learning for Automatic Seizure Detection		
	publication_date	2016-07-31 00:00:00	publication_date	2016-07-31 14:28:15+00:00		
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.ARXIV		
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	doi		doi			
	urls	<ul style="list-style-type: none">https://web.archive.org/web/20200830030746/https://arxiv.org/pdf/1608.00220v1.pdf	urls	<ul style="list-style-type: none">http://arxiv.org/pdf/1608.00220v1http://arxiv.org/abs/1608.00220v1http://arxiv.org/pdf/1608.00220v1		
	id	id2132044178038579724	id	id7577338873742040796		
	abstract	We present and evaluate the capacity of a deep neural network to learn robust features from EEG to automatically detect seizures. This is a challenging problem because seizure manifestations on EEG are extremely variable both inter- and intra-patient. By simultaneously capturing spectral, temporal and spatial information our recurrent convolutional neural network learns a general spatially invariant representation of a seizure. The proposed approach exceeds significantly previous results obtained on cross-patient classifiers both in terms of sensitivity and false positive rate. Furthermore, our model proves to be robust to missing channel and variable electrode montage.	abstract	We present and evaluate the capacity of a deep neural network to learn robust features from EEG to automatically detect seizures. This is a challenging problem because seizure manifestations on EEG are extremely variable both inter- and intra-patient. By simultaneously capturing spectral, temporal and spatial information our recurrent convolutional neural network learns a general spatially invariant representation of a seizure. The proposed approach exceeds significantly previous results obtained on cross-patient classifiers both in terms of sensitivity and false positive rate. Furthermore, our model proves to be robust to missing channel and variable electrode montage.		
	versions		versions			