

EEG Systems : Interpretable AI Paper List

Paper ID	Paper Title	Authors & Published@	Interpretability Categories	Interpretability Methods	Coverage	Explanation Type	
1	Spatio-spectral feature representation for motor imagery classification using convolutional neural network	By J.-S. Bang et al. @TNNLS 2021	Backpropagation	LRP	Local/Global	Attribution	href=https://ieeexplore.ieee.org/abstract/document/9421100
2	A gradient-based approach for explaining multimodal deep learning classifiers	By C. A Ellis et al. @BIBE 2021	Backpropagation	LRP	Local/Global	Attribution	href=https://ieeexplore.ieee.org/abstract/document/9421100
3	Relevance based channel selection in motor imagery brain-computer interface	A. Nagarajan et al. @JNE 2022	Backpropagation	LRP	Local/Global	Attribution	href=https://ieeexplore.ieee.org/abstract/document/9421100
4	EEGNet: a compact convolutional neural network for eeg-based brain-computer interfaces	V. J. Lawhern et al. @JNE 2018	Backpropagation	DeepLift	Local	Attribution	href=https://ieeexplore.ieee.org/abstract/document/9421100
5	EEG-Based Cross-Subject Driver Drowsiness Recognition With an Interpretable Convolutional Neural Network	Jian Cui et al. @IEEE 2022	Deep Learning	Regularized Feature Selection		/	
6	Interpretable EEG classification	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/	

Paper ID	via channel-wise feature importance learning	Authors & Published@	Interpretability Categories	Interpretability Methods	Coverage	Explanation Type
7	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
8	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
9	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
6	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
7	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
8	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
9	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/

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6	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
7	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et a.	Deep Learning	Feature Importance Learning		/
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8	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
9	Interpretable EEG	Xiaowei Huang et al.	Deep Learning	Feature Importance		/

Paper ID	Paper Title	Authors & Published@	Interpretability Categories	Interpretability Methods	Coverage	Explanation Type
	classification via channel-wise feature importance learning			Learning		
6	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
7	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
8	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/
9	Interpretable EEG classification via channel-wise feature importance learning	Xiaowei Huang et al.	Deep Learning	Feature Importance Learning		/

EEG Systems : Robust AI Paper List

Paper ID	Paper Title	Authors	Interpretability Categories	Interpretability Methods	Coverage	Code
1	Lee, "Spatio-spectral feature representation for motor imagery classification using convolutional neural netwo	J.-S. Bang et al.	Backpropagation Methods	LRP	Attribution	/
2	Explainable EEG-based Emotion Recognition using Convolutional Neural Networks	Saba Ghassemi et al.	Deep Learning	Convolutional Neural Network (CNN)		/

[illegible]

Paper ID	Paper Title	Authors	Interpretability Categories	Interpretability Methods	Coverage	Code
5	Interpretable brain-computer interface via regularized feature selection and deep learning	Zhanpeng Huang et al.	Deep Learning	Regularized Feature Selection		/
5	Interpretable brain-computer interface via regularized feature selection and deep learning	Zhanpeng Huang et al.	Deep Learning	Regularized Feature Selection		/