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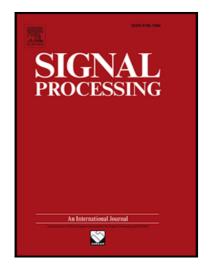
Transferred Deep Learning Based Waveform Recognition for Cognitive Passive Radar

Qing Wang, Panfei Du, Jingyu Yang, Guohua Wang, Jianjun Lei, Chunping Hou

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Highlights

- A new two channel Convolutional Neural Network combining with Bidirectional Long Short-Term Memory achieves excellent performance for modulation recognition and protocol recognition.
- Transfer learning is firstly introduced in waveform recognition filed to solve the model transferability problem across different recognition tasks, which can efficiently save the 60% training time and 50% training data.
- A complete protocol signal dataset is provided for public research about waveform recognition in passive radar.

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