

A Novel Radar Signal Recognition Method Based On Deep Learning

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Intra-pulse modulation radar signal recognition based on ...

3. Signal Recording and Processing. The radar speech detection sensor and a traditional condenser microphone were positioned 4 m away from the subject (Figure 2), so that they can simultaneously collect speech signals from the subject. A distance of 4 m was chosen to enable the collection of high quality speech signals in a relatively quiet environment, although the novel sensor could detect ...

A NOVEL RADAR SIGNAL RECOGNITION METHOD BASED ON A DEEP ...

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A novel radar signal recognition method based on a deep ...

This study proposed an efficient radar emitter signal scheme recognition method using a novel one-class Support Vector Machine (SVM) based Bayesian classification algorithm. First, it is proven that the solution of one-class SVM using the Gaussian kernel can be normalized as an estimate of probability density and the probability density is used to construct the two-class and multi-class ...

A Novel Radar Emitters Scheme Recognition Algorithm using ...

Present radar signal emitter recognition approaches suffer from a dependency on prior information. Moreover, modern emitter recognition must meet the challenges associated with low probability of intercept technology and other obscuration methodologies based on complex signal modulation and must simultaneously provide a relatively strong ability for extracting weak signals under low SNR values.

Radar Emitter Signal Recognition Based on Sample Entropy ...

In this paper, a novel approach based on Gaussian Chirplet Atoms is presented to automatically recognise radar emitter signals. Firstly, based on the over- Radar emitter signal recognition based on atomic decomposition - IEEE Conference Publication

A Novel Radar Signal Recognition

A novel radar signal recognition method based... ____ These recognition methods based on intra-pulse information achieve better performance of varying degrees than those using conventional methods although the drawbacks of these algorithms are still obvious. Firstly, these algorithms are sensitive to noise.

Radar Signal Waveform Recognition Based on Convolutional ...

Recently, recognition rate enhancement methods using artificial neural network technology are being studied in signal pattern recognition [20,21,22,23,24]. The existing UWB radar-based methods for recognizing apnea patterns are based on classical machine learning algorithms or on breathing frequency detection [15,16,17,18,19].

A novel approach for radar emitter signal recognition ...

Request PDF | A Novel Emitter Signal Recognition Model Based on Rough Set | On the basis of classification, rough set theory regards knowledge as partition over data using equivalence relation.

Low Probability of Intercept Radar Signal Recognition by ...

Based on mathematical analysis above, we will illustrate a novel radar signal recognition method in subsequent sections. 3. Construction of feature vectors for signals. As is mentioned, AF reveals the energy distribution in time and frequency domain.

A Novel Human Respiration Pattern Recognition Using ...

Recognition method through detection of respiration frequency can show good performance only when the respiration signal is extracted with a smooth shape and without noise, but if the human motion signal appears similar to the respiration signal, it is difficult to recognize the correct pattern.

A Novel Emitter Signal Recognition Model Based on Rough ...

A Novel Radar Signal Recognition Method based on Deep Learning Dongqing Zhou, Xing Wang, Yuanrong Tian, Ruijia Wang Aeronautics and Astronautics Engineering College, Air Force Engineering University, Shannxi Xi'an, 710038 Abstract: Radar signal recognition is of great importance in the field of electronic intelligence reconnaissance.

Radar Signal Emitter Recognition Based on Combined ...

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A Novel Human Respiration Pattern Recognition Using ...

A novel radar signal recognition method based on a deep restricted Boltzmann machine. Radar signal recognition is of great importance in the field of electronic intelligence reconnaissance. To deal with the problem of parameter complexity and agility of multi-function radars in radar signal recognition, ...

A Novel Radar Signal Recognition Method based on Deep Learning

A novel radar signal recognition method based on a deep restricted Boltzmann machine; 2017 Google Scholar 5. Zhang M, Diao M, Guo L. Convolutional neural networks for automatic cognitive radio waveform recognition.

Recognition of radar signals based on AF grids and ...

Aiming at the problems of the radar emitter signal (RES) recognition based on intra-pulse feature, a novel entropy feature extraction approach is proposed. In this method the sample entropy (SampEn) and fuzzy entropy (FzzyEn) are presented to extract features from RES.

A Novel Recognition Method for Hybrid Modulation Radar Signals

A novel radar signal recognition method based on a deep restricted Boltzmann machine Article in Engineering Review 37(2):165-171 · May 2017 with 66 Reads How we measure 'reads'

Radar emitter signal recognition based on atomic ...

To enhance accurate recognition rate of radar emitter signal (RES), a novel feature extraction method of radar emitter signal is proposed based on empirical mode decomposition (EMD) theory. The EMD algorithm is used to decompose the radar emitter signal into a number of intrinsic mode functions (IMF) and a residue component, these IMFs can reflect characteristics of the radar emitter signal.

A Novel Radar Sensor for the Non-Contact Detection of ...

A novel low probability of intercept (LPI) radar signal recognition method based on stacked autoencoder combined with support vector machine (SVM) is propo

Feature Extraction of Radar Emitter Signal ... - SpringerLink

Radar image recognition is a hotspot in the field of remote sensing. Under the condition of sufficiently labeled samples, recognition algorithms can achieve good classification results.

A novel radar signal recognition method based on a deep ...

In this paper, a novel recognition method based on the squeeze-and-excitation networks (SE-Nets) is proposed in order to recognize intra-pulse modulation signals at varying noise levels automatically. Firstly, different signal transforms including time domain, frequency domain and time-frequency domain are used to convert seven different intra-pulse modulation signals into images.

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