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Firstly, these algorithms are sensitive to noise.A NOVEL RADAR SIGNAL RECOGNITION METHOD BASED ON A DEEP ...We use cookies to offer you a better experience, personalize content, tailor advertising, provide social media features, and better understand the use of our services.A Novel Recognition Method for Hybrid Modulation Radar SignalsA 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'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 Signal Emitter Recognition Based on Combined ...Request PDF | A novel approach for radar emitter signal recognition | First Page of the Article | Find, read and cite all the research you need on ResearchGateA 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.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.A Novel Radar Signal Recognition Method based on Deep LearningA 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.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 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 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 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.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 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 propoLow 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.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.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 PublicationRadar 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.Feature Extraction of Radar Emitter Signal ... - SpringerLinkRadar 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 low probability of intercept (LPI) radar signal recognition method based on stacked autoencoder combined with support vector machine (SVM) is propo

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

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Radar emitter signal recognition based on atomic ...

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Radar Signal Emitter Recognition Based on Combined ...

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.

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.

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A Novel Radar Signal Recognition

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Feature Extraction of Radar Emitter Signal ... - SpringerLink

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Radar Signal Waveform Recognition Based on Convolutional ...

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.

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