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A Novel Radar Signal Recognition Method Based On Deep Learning

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In this paper, a novel recognition model which is called RSRDRBM (radar signal recognition based on deep restricted boltzmann machine) is proposed to solve the radar signal recognition problem. RSRDRBM is based on deep learning method, and composed of multiple restricted boltzmann machine. This neural network model could extract the feature in

A Novel Radar Signal Recognition Method based on Deep Learning recognition. In this paper, a novel recognition model which is called RSRDRBM (radar signal recognition based on deep restricted Boltzmann machine) is proposed

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

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.

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

This paper proposes a novel CNN-1D-AM for radar emitter signal recognition. The designed 1-D convolutional layers especially could directly extract features from the time-domain sequences of radar emitter signals. The attention unit was integrated into the CNN-1D model so that the recognition accuracy of a neural network could be improved further.

Radar Emitter Signal Recognition Based on One-Dimensional ...

The traditional radar signal recognition method is based on the conventional 5 parameters: carrier frequency (RF), angle of arrival (DOA), pulse arrival time (TOA), pulse amplitude (PA), and pulse width (PW). However, most of the signal parameters are external features, which are easy to be interfered by the external environment.

A Radar Signal Recognition Approach via IIF-Net Deep ...

In this paper, a novel HRRP recognition method is proposed to classify unlabeled samples automatically where the number of categories is unknown. Firstly, with the preprocessing of HRRPs, we adopt principal component analysis (PCA) for dimensionality reduction of data.

A Novel Radar HRRP Recognition Method with Accelerated T ...

Novel deep learning approaches are achieving state-of-the-art accuracy in the area of radar target recognition, enabling applications beyond the scope of human-level performance. This book provides an introduction to the unique aspects of machine learning for radar signal processing that any scientist or engineer seeking to apply these ...

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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. Therefore, to construct feature vectors, it is intuitive to figure out where energy accumulates ...

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

Low Power Embedded Gesture Recognition Using Novel Short-Range Radar Sensors
Michele Magno, Emanuel Eggimann, Jonas Erb, Philipp Mayer, Luca Benini
Integrated Systems Laboratory, ETH Zurich Gesture Recognition Based on Short-Range Radar Increasing research on radar for gesture recognition^{1,2,3,4} Google developed micro-radar for gesture recognition

Low Power Embedded Gesture Recognition Using Novel Short ...

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SHORT-RANGE RADAR FOR GESTURE RECOGNITION In this work, we focus on a novel low power short-range 60 GHz pulsed coherent radars from Acconeer (XR111 and XR112). These low power radars use one...

Gesture recognition Sensors 2019 V2

MIMO Radar Signal Processing Book Abstract: The first book to present a systematic and coherent picture of MIMO radars Due to its potential to improve target detection and discrimination capability, Multiple-Input and Multiple-Output (MIMO) radar has generated significant attention and widespread interest in academia, industry, government labs ...

MIMO Radar Signal Processing | IEEE eBooks | IEEE Xplore

Millimeter-wave (mmW) radars are being increasingly integrated into commercial vehicles to support new advanced driver-assistance systems (ADAS) by enabling robust and high-performance object detection, localization, as well as recognition - a key component of new environmental perception. In this paper, we propose a novel radar multiple-perspectives convolutional neural network (RAMP-CNN) that extracts the location and class of objects based on further processing of the range-velocity-angle ...

[2011.08981] RAMP-CNN: A Novel Neural Network for Enhanced ...

Automatic modulation classification of radar signals, which plays a significant role in both civilian and military applications, is researched in this study through a deep learning network. In this study, a novel network combined a shallow convolution neural network (CNN), long short-term memory (LSTM) network and deep neural network (DNN) is proposed to recognise six types of radar signals with different signal-to-noise ratio (SNR) levels from -14 to 20 dB.

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

RADAR signal emitter recognition is an important aspect of electronic warfare reconnaissance systems that seeks to identify individual radar emitters through an analysis of the electromagnetic signals and thereby determine vital information regarding the technical level, performance, position, and deployment conditions of enemy radar systems for supporting decision making regarding enemy weapon systems and targets [1

Radar Signal Emitter Recognition Based on Combined ...

A Novel Method for Recognition of Modulation Code of LPI Radar Signals L. Anjaneyulu¹, N.S.Murthy², N.V.S.N.Sarma³ ^{1,3}Department of ECE, National Institute of Technology, Warangal, AP, India E-mail: anjan.lokam@gmail.com ²School of Computer and Communication Engineering, Universiti Malaysia Perlis, Perlis, Malaysia

A Novel Method for Recognition of Modulation Code of LPI ...

Considering these limitations, this paper proposes a novel one-dimensional convolutional neural network with an attention mechanism (CNN-1D-AM) to extract features directly from original radar signals sequence in the time domain and focus on the key information of extracted features for radar emitter signal recognition.

Radar Emitter Signal Recognition Based on One-Dimensional ...

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A Novel Method for Sorting Radar Radiating-source Signal,Based on Ambiguity Function ,Jun Han, Ming-hao He, Yuan-qing Zhu, Bin-gang Zhu ,Air Force Radar Academy ,AFRA,e-mail:duj81@163.com,Abstract—,Sorting rate of current methods is not high and ,too sensitive to the signal noise ratio (SNR), in order to ,solve this problem, a novel algorithm for sorting radar ,radiating-source signal is ...

A Novel Method for Sorting Radar Radiating-Source Signal ...

A Novel Human Respiration Pattern Recognition Using Signals of Ultra-Wideband Radar Sensor. *Sensors* 2019, 19, 3340. Show more citation formats Note that from the first issue of 2016, MDPI journals use article numbers instead of page numbers.

A Novel Human Respiration Pattern Recognition Using ...

1. We propose and design a novel RFF recognition scheme based on the Contour Stellar Images and CNN. The gener-ated equipotential planet map is similar to the "fingerprint" graphic, so it can be identified using image recognition CNN. 2. We proposed an ADS-B original signal detection acqui-

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