

## Robust Beamforming And Artificial Noise Design In

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### Robust Beamforming And Artificial Noise

In this paper, the robust beamforming and artificial noise design is investigated in two-user interference networks with wireless information and power transfer. Specifically, we focus on the secure communication of the two pairs in the presence of an energy receiver (ER) which acts as the potential eavesdropper and intends to wiretap the confidential message transmitted to one of the ...

### Robust beamforming and artificial noise design in ...

A robust joint design of cooperative beamforming (CB) and artificial noise (AN) is proposed with imperfect channel state information (CSI) of both the destination and the eavesdroppers.

### Robust joint beamforming and artificial noise design for ...

Robust Beamforming and Artificial Noise Design in K-User Interference Channel with Simultaneous Wireless Information and Power Transfer . Yuan Ren, Jian Zhou, and Hui Gao . School of Information and Communication Engineering, Beijing University of Posts and Telecommunications, Beijing 100876, China

### Robust Beamforming and Artificial Noise Design in K-User ...

Robust Artificial Noise-Aided Beamforming for A Secure MISO-NOMA Visible Light Communication System: Xiaodong Liu 1, Zezong Chen 1,\*, Yuhao Wang 2, Fuhui Zhou 3, Shuai Ma 4,5: 1 School of Electronic Information,Wuhan University,Wuhan 430072,China; 2 School of Information Engineering,Nanchang University,Nanchang 330031,China; 3 College of Electronic and Information Engineering,Nanjing ...

### Robust Artificial Noise-Aided Beamforming for A Secure ...

Robust Artificial Noise-Aided Secure Beamforming in Wireless-Powered Non-Regenerative Relay Networks Abstract: In this paper, we consider a non-regenerative relay network supporting simultaneous wireless information and power transfer, in which the energy harvesting relay is powered by radio-frequency signals from the source node.

### Robust Beamforming And Artificial Noise Design In

Robust design of beamforming and artificial noise has been investigated in multiple-input-single-output (MISO) networks. In [12], the authors address the physical layer security in MISO communication systems.

### Robust Beamforming Design for Sum Secrecy Rate ...

In this network, a secondary user coexists with multiple primary users and multiple energy harvesting receivers. In order to guarantee secure communication and energy harvesting, the problem of robust secure artificial noise-aided beamforming and power splitting design is investigated under imperfect channel state information (CSI).

### Robust AN-Aided Beamforming and Power Splitting Design for ...

For securing the confidentiality of signals transmitted from the BS and UT, an artificial noise (AN)-aided secrecy beamforming scheme is proposed, which is robust to the realistic imperfect state information of both the eavesdropping channel and the residual self-interference channel.

### Robust Beamforming and Jamming for Enhancing the Physical ...

ROBUST ADAPTIVE BEAMFORMING ALGORITHM USING INSTANTANEOUS DIRECTION OF ARRIVAL WITH ENHANCED NOISE SUPPRESSION CAPABILITY Byung-Jun Yoon1), Ivan Tashev2), and Alex Acero2) 1) Dept. of Electrical Engineering, California Institute of Technology Pasadena, CA 91125, USA, blyoon@caltech.edu

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### Robust Beamforming And Artificial Noise Design In

In this paper, we study robust joint beamforming and cooperative jamming (CJ) in a secure decode-and-forward (DF) relay system in the presence of multiple eavesdroppers, in which a multi-antenna DF relay employs transmit beamforming to help the source deliver information to the destination and simultaneously generates Gaussian artificial noise to confuse these eavesdroppers.

### Robust beamforming and cooperative jamming for secure ...

The joint design of beamforming vector and artificial noise covariance matrix is investigated for the multiple-input-single-output-multiple-eavesdropper simultaneous wireless information and power transferring  $\text{MISO-SWIPT}$  systems. In the MISOME-SWIPT system, the base station delivers information signals to the legitimate user equipments and broadcasts jamming signals to the ...

### Robust Energy Efficient Beamforming in MISOME-SWIPT ...

An anti-eavesdropping zero-forcing plus power-efficient artificial-noise optimization method for multibeam directional modulation synthesis is proposed. It aims to prevent known and unknown eavesdrop...

### Secure beamforming and power-efficient artificial-noise ...

The integration of non-orthogonal multiple access (NOMA) in cognitive radio (CR) networks has demonstrated how to enhance spectrum efficiency and achieve massive connectivity for future mobile networks. However, security is still a challenging issue due to the wireless transmission environment and the broadcast nature of NOMA. Thus, in this paper, we investigate a beamforming design with ...

### Joint Beamforming and Artificial Noise Optimization for ...

In SWIPT operation, artificial noise (AN) was embedded in the transmit beamforming signal to confuse the eavesdroppers and harvest power simultaneously . In addition, due to the inherent characteristics of CR with SWIPT, ERs may illegitimately access the PU bands and change the radio environment.

### AN-Aided Transmit Beamforming Design for Secured Cognitive ...

We study secure robust beamformer and powersplitting (PS) design under imperfect channel state information (CSI).The artificial noise (AN) scheme is further utilized at the transmitter to provide strong wireless security.We aim at maximizing the energy harvested by ERs subject to the transmission power constraint, a range of outageconstraints concerning the signal-to-interference-plus-noise ...

### Probabilistic-constrained robust secure transmission for ...

This letter investigates secure transmission in an intelligent reflecting surface (IRS) assisted non-orthogonal multiple access (NOMA) network. Consider a practical eavesdropping scenario with imperfect channel state information of the eavesdropper, we propose a robust beamforming scheme using artificial noise to guarantee secure NOMA transmission with the IRS. A joint transmit beamforming and ...

### [2009.00267] Robust and Secure Communications in ...

JOINT TRANSMIT BEAMFORMING AND ARTIFICIAL NOISE DESIGN FOR QOS DISCRIMINATION IN WIRELESS DOWNLINK Wei-Cheng Liao , Tsung-Hui Chang , Wing-Kin Ma , and Chong-Yung Chi Institute of Commun. Eng. & Dept. of Elec. Eng. National Tsing Hua University, Hsinchu, Taiwan 30013 E-mail: weicliao@gmail.com, changth@mx.nthu.edu.tw cychi@ee.nthu.edu.tw

### JOINT TRANSMIT BEAMFORMING AND ARTIFICIAL NOISE DESIGN FOR ...

Furthermore, we extend the IBCD algorithm to the joint beamforming and artificial noise design problem. Finally, simulations are performed to validate the effectiveness of the proposed beamforming ...

### Robust Beamforming Designs in Secure MIMO SWIPT IoT ...

Robust adaptive beamforming (RAB) technique is designed to avoid self-cancellation in the presence of mismatch between the nominal and actual models. In this paper, ... Injecting undersized amount of artificial white noise cannot avoid signal cancellation, ...