

# Robust Beamforming And Artificial Noise Design In

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### Robust Beamforming And Artificial Noise

#### CHAPTER 3 ROBUST ADAPTIVE BEAMFORMING

beamformer is sensitive to noise enhancement at low SNR and additional constraint is required to bear the ellipsoidal constraint 32 ROBUST ADAPTIVE BEAMFORMING Adaptive beamforming is a complementary means for signal-to-interference-plus-noise-ratio (SINR) optimization (Van Trees 2002, Dimitris and Ingle 2005, Godara 1997)

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

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 ...

#### **RESEARCH OpenAccess Robustbeamformingandcooperative ...**

Gaussian artificial noise to confuse theK Es Throughoutthispaper,theK Esarepassiveandthegoal is to interpret the transmission information without try-ing to modify it It is assumed that S and R can (partially) secure robust beamforming design is beyond the scope of

#### **Robust Adaptive Beamforming Using Worst -Case ...**

Robust Adaptive Beamforming Using Worst -Case Performance 0 p timizat ion Alex B Gershman Zhi-Quan Luo Sbahram Shahbazpanahi Sergiy A Vorobyov McMaster University Dept of Electrical and Computer Engineering 1280 Main St W, Hamilton Ontario L8S 4K1, Canada E-mail: gershmanaieee org invited paper AbsrraeCln recent decades, adaptive arrays have been widely

#### **NEURAL NETWORK BASED ROBUST ADAPTIVE ...**

The robust adaptive beamforming algorithm using RBFNN, provides excellent robustness to signal steering vector mismatches, enhances the array system performance under non ideal conditions and makes the mean output array SINR (Signal-to-Interference-plus- Noise ...

#### **Artificial Noise Aided Secure Cognitive Beamforming for ...**

the authors of [32] designed an optimal beamforming scheme for MISO-aided CRNs In [33], the authors extended the contributions of [31] and [32] into a fading channel and the secure throughput was maximized by optimizing both the beam-forming vector and the transmission power The authors of [34] studied the robust beamforming design problem

### **Artificial Noise Based Beamforming for the MISO VLC ...**

[24], where robust beamforming and worst-case secrecy rate maximization were investigated in [21], [22] and artificial noise schemes were proposed in [23], [24] From an information-theoretic point of view and similar to the average power constrained case, one can use the existing

### **Beamforming for Direction-of-Arrival (DOA) Estimation-A Survey**

many applications Beamforming is the most prominent technique to estimate DOA In this survey, a study of various beamforming techniques and algorithms to estimate the direction of arrival of a signal is made An assessment on the background robust algorithms using Nyquist sampling rate and its Compressive sensing alternative is done

### **AudioSmart Voice and Speech Processing**

and artificial intelligence (AI) transform the smart device market, o Noise can be at any angle relative to the microphones, even in the same direction as the speech Enabling robust voice communication and ASR in a real-world environment is challenging The environment is

### **RESEARCH OpenAccess Zero ...**

without artificial noise, we first prove that the initial non-convex problem can be divided into two subproblems, based on different values of energy harvest requirements Then, the closed-form solutions for the subproblems are derived 3 For SWIPT with joint energy beamforming and information beamforming, we design zero-forcing

### **Robust secure design for relay wireless sensor networks ...**

respectively Among these literatures, beamforming (BF) and artificial noise (AN) are two key techniques to improve security and enhance EH13 One of the most important problems in PLS is the acquirement of the channel state information (CSI) The robust design has been widely applied to handle the CSI's uncertainties14-20 Specifically

### **RESEARCH INTERESTS EDUCATION - USU**

5 11 Haijian Sun, Fuhui Zhou, Rose Qingyang Hu, Lajos Hanzo, "Robust Beamforming Design in a NOMA Cognitive Radio Network with SWIPT", accepted to IEEE Journal of Selected Areas in Communications 2018 12 Zekun Zhang, Rose Qingyang Hu, "Dense Cellular Network Analysis with LoS/NLoS Propagation and Bounded Path Loss Model", to appear in IEEE Communications Letter 2018

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