

Robust Beamforming And Artificial Noise Design In

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For practical concerns, we assume thatRobust Beamforming and Artificial Noise Design in K-User ...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 Artificial Noise-Aided Secure Beamforming in ...Specifically, to prevent information leakage, full-duplex (FD) cellular receiver injects the artificial noise (AN) signals to deteriorate the eavesdropper's channel while performing beamforming to...Robust Cooperative Beamforming and Artificial Noise Design ...In -, the robust information beamformer and artificial noise (AN) covariance matrix were designed with the objective of maximizing the secrecy rate under the constraint of a certain maximum...Robust Artificial Noise-Aided Secure Beamforming in ...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 ...The new quasi-convex optimization problem is written in such a way that the computational costs to solve this problem are as low as possible. We develop an algorithm to obtain the optimal beamforming weights and artificial noise covariance matrix.Robust Beamforming and Power Allocation in CR MISO ...In this paper, we investigate physical layer security for simultaneous wireless information and power transfer in amplify-and-forward relay networks. We propose a joint robust cooperative beamforming and artificial noise scheme for secure communication and efficient wireless energy transfer. Specifically, by treating the energy receiver as a potential eavesdropper and assuming that only ...Joint cooperative beamforming and artificial noise design ...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 ...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, bjyoon@caltech.eduROBUST ADAPTIVE BEAMFORMING ALGORITHM USING INSTANTANEOUS ...In this paper, we investigate physical layer security for simultaneous wireless information and power transfer in amplify-and-forward relay networks. 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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 ...Robust Energy Efficient Beamforming in MISOME-SWIPT ...In this paper, an adaptive robust secure null-space projection (NSP) synthesis scheme is proposed for wireless transmission networks with artificial noise (AN) aided directional modulation (DM). This scheme is composed of three steps: direction of arrival (DOA) and signal-to-noise ratio (SNR) estimation, prediction of error range, and robust secure beamforming.Adaptive Robust Null-Space Projection Beamforming Scheme ...In SWIPT operation, artificial noise (AN) was embedded in the transmit beamforming signal to confuse the eavesdroppers and harvest power simultaneously [33]. 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 ...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 ...The paper considers the secure transmission in a wireless environment in which both the transmitter (Alice) and the legitimate receiver (Bob) send artificial noise (AN) to interfere with the eavesdropper (Eve). Optimal design is analyzed in detail for this AN-by-both-side model to deal with Eve's stochastic channel condition and random

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