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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 information receivers (IRs).

Robust beamforming and artificial noise design in ...

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

[PDF] 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 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 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 ... CHAPTER 3 ROBUST ADAPTIVE BEAMFORMING beamformer is sensitive to noise enhancement at low SNR and ...

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In this paper, a robust Beamforming and Artificial Noise (BF-AN) design scheme is proposed for secure communication in a MISO SWIPT . K-user IFC. An ER, which is able to harvest energy from the . K. transmitters, acts as an external eavesdropper and manages to wiretap the secure node. For practical concerns, we assume that

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

Joint Beamforming and Artificial Noise Optimization for Secure Transmissions in MISO-NOMA Cognitive Radio System with SWIPT by Carla E. Garcia , Mario R. Camana and Insoo Koo * School of Electrical and Computer Engineering, University of Ulsan, Ulsan 680-749, Korea

Joint Beamforming and Artificial Noise Optimization for ...

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). Specifically, the transmit power minimization problem and the max-min fairness energy harvesting problem are formulated for both the bounded CSI error model and the probabilistic CSI error model.

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

Abstract: In this paper, we investigate the physical layer security of a full-duplex base station (BS)-aided system in the worst case, where an uplink

transmitter (UT) and a downlink receiver (DR) are equipped with a single antenna, while a powerful eavesdropper is equipped with multiple antennas. 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 ...

Robust Beamforming and Jamming for Enhancing the Physical ...

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 ...

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 Beamforming for Physical Layer Security in BDMA Massive MIMO ... when the channel estimation errors are taken into consideration. With the aid of artificial noise (AN), the proposed design are formulated as minimizing the transmit power of the base station (BS), while providing legal users and the eavesdropper (Eve) with different signal ...

Robust Beamforming for Physical Layer Security in BDMA ...

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 ...

Robust Cooperative Beamforming and Artificial Noise Design for Physical-Layer Secrecy in AF Multi-Antenna Multi-Relay Networks Q Li, Y Yang, WK Ma, M Lin, J Ge, J Lin IEEE Transactions on Signal Processing 63 (1), 206-220 , 2015

?Qiang Li (??)? - ?Google Scholar?

In order to improve the security of secondary networks, we use the artificial noise (AN) to mask the transmit beamforming. Optimization design of AN-aided transmit beamforming is studied, where the transmit power of the information signal is minimized subject to the secrecy rate constraint, the harvested energy constraint, and the total transmit power.

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

Simultaneous wireless information and power transfer (SWIPT) becomes more and more popular in cognitive radio (CR) networks, as it can increase the resource reuse rate of the system and extend the user's lifetime. Due to the deployment of energy harvesting nodes, traditional secure beamforming designs are not suitable for SWIPT-enabled CR networks as the power control and energy ...

AN-Aided Secure Beamforming in SWIPT-Aware Mobile Edge ...

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 ...

DOI: 10.1109/WCNC.2013.6555249 Corpus ID: 3558724. Worst-case robust masked beamforming for secure broadcasting

@article{Tang2013WorstcaseRM, title={Worst-case robust masked beamforming for secure broadcasting}, author={Yanqun Tang and W. Li and Dongtang Ma and Xiao-Ying Zhang and J. Wei}, journal={2013 IEEE Wireless Communications and Networking Conference (WCNC)}, year={2013}, pages={4186 ...

Worst-case robust masked beamforming for secure ...

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.

Computational Collective Intelligence Physical Layer Security in Wireless Communications Communications and Networking Signal Processing Approaches to Secure Physical Layer Communications in Multi-Antenna Wireless Systems Convex Optimization for Signal Processing and Communications Wireless Powered Communication Networks Convergence of Energy, Communication and Computation in B5G Cellular Internet of Things Handbook on Advancements in Smart Antenna Technologies for Wireless Networks Artificial Intelligence for Communications and Networks Protecting Mobile Networks and Devices Data Communication and Networks Robust Adaptive Beamforming Wireless AI Wireless Algorithms, Systems, and Applications Robust Resource Allocation in Future Wireless Networks Control and Dynamic Systems V53: High Performance Systems Techniques and Applications Energy Harvesting for Wireless Sensor Networks Artificial Intelligence Applications and Innovations High-Resolution and Robust Signal Processing Academic Press Library in Signal Processing, Volume 7
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