

JITEC TECHNOLOGIES

(AN IEEE ENGINEERING PROJECT AND RESEARCH INSTITUTE)
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IEEE 2018 – 2019 WIRELESS COMMUNICATION (NS2) PROJECT TITLES

S.NO	TITLES
1.	An End-to-End Implanted Brain–Machine Interface Antenna System Performance Characterizations and Development
2.	An End-to-End Model of Plant Pheromone Channel for Long Range Molecular Communication
3.	Bargaining Over the Fair Trade-Off Between Secrecy and Throughput in OFDM Communications
4.	Bid and Time Truthful Online Auctions in Dynamic Spectrum Markets
5.	Buffer-Aided Relaying With Discrete Transmission Rates for the Two-Hop Half-Duplex Relay Network
6.	Calibration of Nonlinear Crosstalk in MIMO Transmitter
7.	Capacity Results for the Multicast Cognitive Interference Channel
8.	Characterizing Passenger Flow for a Transportation Hub Based on Mobile Phone Data
9.	Characterizing the 2.4 GHz Spectrum in a Hospital Environment Modeling and Applicability to Coexistence Testing of Medical Devices
10.	Common Codebook Millimeter Wave Beam Design Designing Beams for Both Sounding and Communication With Uniform Planar Arrays
11.	Communication-Efficient Distributed Demand Response A

	Randomized ADMM Approach
12.	Cooperative Simultaneous Localization and Synchronization in Mobile Agent Networks
13.	Cost-Effective Mapping between Wireless Body Area Networks and Cloud Service Providers Based on Multi-Stage Bargaining
14.	Coverage Analysis of Packet Multi-Tier Networks With Asynchronous Slots
15.	Cross-Layer Design for Downlink Multihop Cloud Radio Access Networks With Network Coding
16.	Data-Driven Adaptive Optimal Control of Connected Vehicles
17.	Decoupled Uplink and Downlink in a Wireless System With Buffer-Aided Relaying
18.	Delay-Sensitive Area Spectral Efficiency A Performance Metric for Delay-Constrained Green Networks
19.	Delta-Sigma Encoder for Low-Power Wireless Bio-Sensors Using Ultra wideband Impulse Radio
20.	Demonstration of a Passive Wireless Radiation Detector Using Fully-Depleted Silicon-on-Insulator Variable Capacitors
21.	Diaper-Embedded Urinary Tract Infection Monitoring Sensor Module Powered by Urine-Activated Batteries
22.	Direct Localization for Massive MIMO
23.	Distributed Interference and Energy-Aware Power Control for Ultra-Dense D2D Networks A Mean Field Game
24.	Distributed MIMO Broadcasting Reverse Compute-and-Forward and Signal-Space Alignment
25.	Distributed Space-Time Coding Based on the Self-Coding of RLI for

	Full-Duplex Two-Way Relay Cooperative Networks
26.	Diversity-Multiplexing Tradeoff in an Interweave Multiuser Cognitive Radio System
27.	Dynamic Secrets and Secret Keys Based Scheme for Securing Last Mile Smart Grid Wireless Communication
28.	Dynamic Spectrum Management A Complete Complexity Characterization
29.	Dynamic Subarrays for Hybrid Precoding in Wideband mmWave MIMO Systems
30.	Efficient Ambiguity Resolution in Wireless Localization Systems
31.	Electromagnetic Emission-Aware Schedulers for the Uplink of OFDM Wireless Communication Systems
32.	Energy and Spectral Efficiency of Cellular Networks With Discontinuous Transmission
33.	Energy Efficient Algorithms for Real-Time Traffic Over Fading Wireless Channels
34.	Energy-Efficient Resource Allocation for Mobile-Edge Computation Offloading
35.	Energy-Efficient Resource Allocation for Wireless Powered Massive MIMO System With Imperfect CSI
36.	Energy-Efficient Scheduling for mmWave Backhauling of Small Cells in Heterogeneous Cellular Networks
37.	Energy-Efficient Secrecy in Wireless Networks Based on Random Jamming
38.	EnergyQuality-of-Experience TradeOff of Power Saving Modes for Voice Over IP Services

39.	Enhanced Deployment Algorithms for Heterogeneous Directional Mobile Sensors in a Bounded Monitoring Area
40.	Equivalent Discrete-Time Channel Modeling for Molecular Communication With Emphasize on an Absorbing Receiver
41.	ER-CRLB An Extended Recursive Cramér–Rao Lower Bound Fundamental Analysis Method for Indoor Localization Systems
42.	Flow Allocation for Maximum Throughput and Bounded Delay on Multiple Disjoint Paths for Random Access Wireless Multihop Networks
43.	Full-Duplex Meets Multiuser MIMO Comparisons and Analysis
44.	Fundamental Limits of Cache-Aided Interference Management
45.	Fuzzy Integral With Particle Swarm Optimization for a Motor-Imagery-Based Brain–Computer Interface
46.	Generalized Satisfaction Equilibrium for Service-Level Provisioning in Wireless Networks
47.	Group Cooperation With Optimal Resource Allocation in Wireless Powered Communication Networks
48.	High Gain Dual-Band Beam-Steering Transmit Array for Satcom Terminals at Ka-Band
49.	High-Efficiency High-Isolation Dual-Orthogonally Polarized Patch Antennas Using Nonperiodic RAMC Structure
50.	i2RES Integrated Information Relay and Energy Supply Assisted RF Harvesting Communication
51.	Impact of Full Duplex Scheduling on End-to-End Throughput in Multi-Hop Wireless Networks
52.	In-Vehicle Channel Measurement, Characterization, and Spatial

	Consistency Comparison of Frequency Bands
53.	Joint Energy Replenishment and Operation Scheduling in Wireless Rechargeable Sensor Networks
54.	Joint Precoder and Artificial Noise Design for MIMO Wiretap Channels With Finite-Alphabet Inputs Based on the Cut-Off Rate
55.	Joint Precoding and RRH Selection for User-Centric Green MIMO C-RAN
56.	Joint Uplink Radio Access and Fronthaul Reception Using MMSE Estimation
57.	Leader-Follower Consensus of Multiagent Systems With Energy Constraints A Markovian System Approach
58.	Linear Degrees of Freedom for K -user MISO Interference Channels With Blind Interference Alignment
59.	Linear Transceiver Designs for MIMO Indoor Visible Light Communications Under Lighting Constraints
60.	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing
61.	Low-Rank Covariance-Assisted Downlink Training and Channel Estimation for FDD Massive MIMO Systems
62.	M3BA A Mobile, Modular, Multimodal Biosignal Acquisition Architecture for Miniaturized EEG-NIRS-Based Hybrid BCI and Monitoring
63.	Max-Min Utility Optimization in Load Coupled Interference Networks
64.	Millimeter-Wave Beam Training Acceleration Through Low-Complexity Hybrid Transceivers

65.	Mobile Data Offloading With Almost Blank Subframe in LTE-LAA and Wi-Fi Coexisting Networks Based on Coalition Game
66.	Mobile RFID System in the Presence of Denial-of-Service Attacking Signals
67.	Modeling Multicast Group in Wireless Social Networks A Combination of Geographic and Non-Geographic Perspective
68.	Multilevel Protection to Broadcaster Contour and Its Impact on TV White Space Availability
69.	Multiplexing and Diversity Gains in Noncoherent Massive MIMO Systems
70.	Noncoherent Short Packet Detection and Decoding for Scatter Radio Sensor Networking
71.	Nonlinear Equalization Approaches for Physical Layer Network Coding
72.	Number of Transmit Antennas Detection Using Time-Diversity of the Fading Channel
73.	On Jamming Against Wireless Networks
74.	On Perception and Reality in Wireless Air Traffic Communication Security
75.	On the Degrees of Freedom of MIMO X Networks With Non-Cooperation Transmitters
76.	On the Design of Dual Energy Harvesting Communication Links With Retransmission
77.	On the Feasibility of Full-Duplex Relaying in Multiple-Antenna Cellular Networks
78.	On the Secrecy Capacity Region of the Two-User Symmetric Z

	Interference Channel With Unidirectional Transmitter Cooperation
79.	On the Spatial Error Propagation Characteristics of Cooperative Localization in Wireless Networks
80.	Optimal Eigenvalue Weighting Detection for Multi-Antenna Cognitive Radio Networks
81.	Optimal Spectrum Sensing Interval in Energy-Harvesting Cognitive Radio Networks
82.	Optimal Wireless Energy Charging for Incentivized Content Transfer in Mobile Publish–Subscribe Networks
83.	Outage Analysis of Spectrum Sharing Over M-Block Fading With Sensing Information
84.	Output-Based and Decentralized Dynamic Event-Triggered Control With Guaranteed L_p - Gain Performance and Zeno-Freeness
85.	Parametrization and Applications of Precoding Reuse and Downlink Interference Alignment
86.	PEEC-Based Multi-Objective Synthesis of Non-Uniformly Spaced Linear Antenna Arrays
87.	Performance Analysis of Cooperative Systems With Unreliable Backhauls and Selection Combining
88.	Performance of Non-orthogonal Multiple Access With a Novel Asynchronous Interference Cancellation Technique
89.	PMNDN Proxy Based Mobility Support Approach in Mobile NDN Environment
90.	Power-Aware Maximization of Ergodic Capacity in D2D Underlay Networks
91.	Power-Efficient Distributed Beamforming for Full-Duplex MIMO

	Relaying Networks
92.	Practical Opportunistic Data Collection in Wireless Sensor Networks with Mobile Sinks
93.	Precise Determination of the Optimal Coil for Wireless Power Transfer Systems Through Postprocessing in the Smooth Boundary Representation
94.	QoS-Aware Enhanced-Security for TDMA Transmissions from Buffered Source Nodes
95.	QoS-Driven Energy-Efficient Power Control With Random Arrivals and Arbitrary Input Distributions
96.	Quantifying Trust for Robust Fusion While Spectrum Sharing in Distributed DSA Networks
97.	Radio Biometrics Human Recognition Through a Wall
98.	Random Linear Network Coding for Wireless Layered Video Broadcast General Design Methods for Adaptive Feedback-Free Transmission
99.	Real-Time Traffic State Estimation With Connected Vehicles
100.	Reducing Latency for Multimedia Broadcast Services Over Mobile Networks
101.	Reducing the Computational Complexity of Multicasting in Large-Scale Antenna Systems
102.	Rician MIMO Channel- and Jamming-Aware Decision Fusion
103.	Scheduling and Power Allocation for Hybrid Access Cognitive Femtocells
104.	Scheduling Strategy for Multimedia Heterogeneous High-Speed Train Networks

105.	Secrecy-Optimized Resource Allocation for Device-to-Device Communication Underlying Heterogeneous Networks
106.	Secure Transmission in MISOME Wiretap Channel With Multiple Assisting Jammers Maximum Secrecy Rate and Optimal Power Allocation
107.	SEND A Situation-Aware Emergency Navigation Algorithm with Sensor Networks
108.	Simultaneous Wireless PowerData Transfer for Electric Vehicle Charging
109.	SLICOTS An SDN-Based Lightweight Countermeasure for TCP SYN Flooding Attacks
110.	Social-Oriented Adaptive Transmission in Opportunistic Internet of Smartphones
111.	Soft-Decision-Aided, Smoothness-Constrained Channel Estimation over Time-Varying Fading Channels With No Channel Model Information
112.	Space Codes for MIMO Optical Wireless Communications Error Performance Criterion and Code Construction
113.	Sparse Beamforming for Real-Time Resource Management and Energy Trading in Green C-RAN
114.	Stability and Frequency Response Under Stochastic Communication Delays With Applications to Connected Cruise Control Design
115.	Stable and High-Efficiency Wireless Power Transfer System for Robotic Capsule Using a Modified Helmholtz
116.	Sum Throughput Maximization for Multi-User MIMO Cognitive Wireless Powered Communication Networks

117.	The Error Propagation Analysis of the Received Signal Strength-Based Simultaneous Localization and Tracking in Wireless Sensor Networks
118.	Theoretical Analysis of Magneto-Inductive THz Wireless Communications and Power Transfer With Multi-Layer Graphene Nano-Coils
119.	Topological Properties of Secure Wireless Sensor Networks Under the q -Composite Key Predistribution Scheme With Unreliable Links
120.	Tracking of Wideband Multipath Components in a Vehicular Communication Scenario
121.	Transmit Beamforming and Power Control for Optimizing the Outage Probability Fairness in MISO Networks
122.	Understanding the Impact of Employing Relay Node on Wireless Networks
123.	Unified Capacity Limit of Non-Coherent Wideband Fading Channels
124.	Use of Transmitter-Side Electrical Information to Estimate System Parameters of Wireless Inductive Links
125.	User-Centric Visible Light Communications for Energy-Efficient Scalable Video Streaming
126.	Using Wireless Link Dynamics to Extract a Secret Key in Vehicular Scenarios
127.	Video Streaming Over Ad Hoc Networks A QoE-Based Optimal Routing Solution
128.	Wireless Power Transfer With Three-Ports Networks Optimal Analytical Solutions
129.	A Closed-Loop Reciprocity Calibration Method for Massive MIMO in Terrestrial Broadcasting Systems

130.	A Cognitive Control Method for Cost-Efficient CBTC Systems With Smart Grids
131.	A Driver State Detection System—Combining a Capacitive Hand Detection Sensor With Physiological Sensors
132.	A Dynamic Rate Selection Algorithm for IEEE 802.11 Industrial Wireless LAN
133.	A Geometry-Based Underwater Acoustic Channel Model Allowing for Sloped Ocean Bottom Conditions
134.	A Low-Complexity Graph-Based LMMSE Receiver for MIMO ISI Channels With M -QAM Modulation
135.	A New Metric for Measuring the Security of an Environment The Secrecy Pressure
136.	A Planar Low-Profile Meander Antenna (PLMA) Design for Wireless Terminal Achieving Between Intrasystem EMC and Isolation in Multiantenna Systems
137.	A Review on Recent Progress of Portable Short-Range Noncontact Microwave Radar Systems
138.	A Wideband Dual Circularly Polarized Full-Corperate Waveguide Array Antenna Fed by Triple-Resonant Cavities
139.	Adaptive Blind Postdistortion and Equalization of System Impairments for a Single-Channel Concurrent Dual-Band Receiver
140.	Adaptive Cloud Radio Access Networks Compression and Optimization