

2020-2021 Networking Project List

MANETS	
1	The Method of Data Collection Based on Multiple Mobile Nodes for Wireless Sensor Network
2	Exploring the Impact of Node Correlation on Transmission Reuse in MANETs
3	Efficient Route Discovery and Link Failure Detection Mechanisms for Source Routing Protocol in Mobile Ad-Hoc Networks
4	Multipath Routing and MPTCP-Based Data Delivery Over Manets
5	An Adaptive on-Demand Multipath Routing Protocol With QoS Support for High-Speed MANET
6	A Multi-Path Routing Protocol Based on Link Lifetime and Energy Consumption Prediction for Mobile Edge Computing
7	Graph Kernel Based Clustering Algorithm in MANETs
8	Mitigation of Black Hole and Gray Hole Attack Using Swarm Inspired Algorithm With Artificial Neural Network
9	Dual-Channel-Based Mobile Ad Hoc Network Routing Technique for Indoor Disaster Environment
10	Analysis of Route Stability in Mobile Multihop Networks Under Random Waypoint Mobility
11	A Time Interval based Blockchain Model for Detection of Malicious Nodes in MANET Using Network Block Monitoring Node
12	Performance Evaluation and Analysis of Proactive and Reactive MANET Protocols at Varied Speeds
13	A Network Lifetime Extension-Aware Cooperative MAC Protocol for MANETs With Optimized Power Control
14	Design and Implementation of An Efficient Multipath AODV Routing Algorithm for MANETs
15	Resource Allocation for Performance Enhancement in Mobile Ad Hoc Networks
16	BP-AODV: Blackhole Protected AODV Routing Protocol for MANETs Based on Chaotic Map
17	Performance Analysis of OLSR Protocol for MANETs under Realistic Mobility Model
18	CREDND: A Novel Secure Neighbor Discovery Algorithm for Wormhole Attack
 FLYING ADHOC NETWORKS (FANETS) and UNMANNED AERIAL VEHICLE (UAV) 	
1	An Efficient and Provably Secure Certificateless Key-Encapsulated Signcryption Scheme for Flying Ad-hoc Network
2	Smart IoT Control-Based Nature Inspired Energy Efficient Routing Protocol for Flying Ad Hoc Network (FANET)
3	Mobility and Location-Aware Stable Clustering Scheme for UAV Networks
4	FANET based Emergency Healthcare Data Dissemination
5	Rendezvous: Opportunistic Data Delivery to Mobile Users by UAVs Through Target Trajectory Prediction

6	Energy-Efficient UAV-to-User Scheduling to Maximize Throughput in Wireless Networks
7	LAOD: Link Aware On Demand Routing in Flying Ad-hoc Networks
8	An optimization routing protocol for FANETs
9	GeoLocation based routing for flying adhoc networks
10	TARCS: A Topology Change Aware-Based Routing Protocol Choosing Scheme of FANETs
11	Evaluation of AODV and DSDV Routing Protocols for a FANET: Further results towards robotic vehicle networks
12	Considering AODV and OLSR routing protocols to traffic monitoring scenario in FANET formed by mini-UAVs
13	FS-MAC: An Adaptive MAC Protocol With Fault-Tolerant Synchronous Switching for FANETs
14	Performance Evaluation of UAV-Assisted mmWave Operation in Mobility-Enabled Urban Deployments
15	Energy-Efficient Data Gathering Framework-Based Clustering via Multiple UAVs in Deadline-Based WSN Applications
16	IoT Enabled UAV: Network Architecture and Routing Algorithm
	IOT
1	EMS: An Energy Management Scheme for Green IoT Environments
2	Towards Better Routing Protocols for IoT
3	Memetic Algorithm Based Data Gathering Scheme for IoT-Enabled Wireless Sensor Networks
4	A Timely VANET Multi-hop Routing Method in IoT
5	Enhanced LEACH protocol for increasing a lifetime of WSNs
6	A Two-Level Clustering based on Position, Data Correlation and Residual Energy in WSN
7	Mobility-Aware Hierarchical Clustering in Mobile Wireless Sensor Networks
8	Sensitivity Analysis of an Attack-Pattern Discovery Based Trusted Routing Scheme for Mobile Ad-Hoc Networks in Industrial IoT
9	Secret Sharing-Based Energy-Aware and Multi-Hop Routing Protocol for IoT Based WSNs
10	Residual energy based cluster head selection in WSN for IoT applications
11	Design and Analysis of Probing Route to Defense Sink-hole Attacks for Internet of Things Security
	Under water sensor networks (UWSN)
1	Energy-efficient Depth based Probabilistic Routing within 2-Hop Neighborhood for Underwater Sensor Networks
2	A Multi-Layer Cluster Based Energy Efficient Routing Scheme for UWSNs
3	Reliable Path Selection and Opportunistic Routing Protocol for Underwater Wireless Sensor Networks
4	An Underwater Layered Protocol Based on Cooperative Communication for Underwater Sensor Network
5	E2MR: energy-efficient multipath routing protocol for underwater wireless sensor networks
6	An Energy-Conserving Collision-Free MAC Protocol for Underwater Sensor

	Networks
7	A Collision-Free Graph Coloring MAC Protocol for Underwater Sensor Networks
8	Data Collection in Underwater Sensor Networks based on Mobile Edge Computing
	Vehicular Adhoc Network (VANET's)
1	Evaluation DSDV, AODV and OLSR routing protocols in real live by using SUMO with NS3 simulation in VANET
2	RSU-Assisted Traffic-Aware Routing Based on Reinforcement Learning for Urban Vanets
3	Efficient Privacy-Preserving Scheme for Location Based Services in VANET System
4	Enhancements to IEEE 802.15.4 MAC Protocol to Support Vehicle-to-Roadside Communications in VANETs
5	A Secure and Efficient Group Key Agreement Scheme for VANET
6	Speed-adaptive multi-copy routing for vehicular delay tolerant networks
7	Vehicle Collision Avoidance in a VANET environment by data communication
8	Performance Study of AODV Protocol with Ant Colony Algorithm in VANETs
	WSN and Clustering
1	The Method of Data Collection Based on Multiple Mobile Nodes for Wireless Sensor Network
2	Identification Failure Data for Cluster Heads Aggregation in WSN Based on Improving Classification of SVM
3	Lifetime Maximization of Sensor Networks Through Optimal Data Collection Scheduling of Mobile Sink
4	I-SEP an improved routing protocol for heterogeneous WSN for IoT based environment monitoring
5	Mobile routing algorithm with dynamic clustering for energy large-scale wireless sensor networks
6	Optimal cluster head selection using modified rider assisted clustering for IoT
7	RCER: Reliable Cluster-based Energy-aware Routing protocol for heterogeneous Wireless Sensor Networks
8	An Energy-Efficient Clustering Algorithm Combined Game Theory and Dual-Cluster-Head Mechanism for WSNs
9	CER-CH: Combining Election and Routing Amongst Cluster Heads in Heterogeneous WSNs
10	ECH: An Enhanced Clustering Hierarchy Approach to Maximize Lifetime of Wireless Sensor Networks
11	A Heterogeneous Nodes-Based Low Energy Adaptive Clustering Hierarchy in Cognitive Radio Sensor Network
12	A Congestion-Aware Clustering and Routing (CCR) Protocol for Mitigating Congestion in WSN
13	QoS Aware Routing Protocol Through Cross-layer Approach in Asynchronous Duty-Cycled WSNs
14	An Energy-Efficient Cross-Layer-Sensing Clustering Method Based on Intelligent Fog Computing in WSNs

15	An Energy-Efficient Region Source Routing Protocol for Lifetime Maximization in WSN
16	EESRA: Energy Efficient Scalable Routing Algorithm for Wireless Sensor Networks
	WSN Attacks
1	Mitigation of Black Hole and Gray Hole Attack Using Swarm Inspired Algorithm With Artificial Neural Network
2	A Time Interval based Blockchain Model for Detection of Malicious Nodes in MANET Using Network Block Monitoring Node
3	Network-based Anomaly Intrusion Detection System in MANETS
4	An adaptive approach for Detecting Blackhole using TCP Analysis in MANETs
5	Securing Blackhole Attacks in MANETs using Modified Sequence Number in AODV Routing Protocol
6	Sensitivity Analysis of an Attack-Pattern Discovery Based Trusted Routing Scheme for Mobile Ad-Hoc Networks in Industrial IoT

Project Titles on WSN, IOT, VANET and FANET

- 1. CREDND: A Novel Secure Neighbor Discovery Algorithm for Wormhole Attack**
- 2. Comparison of AODV, DSR, and DSDV routing protocols in a wireless network**
- 3. QoS based performance analysis of DSR and AODV routing protocol in MANETs**
- 4. Efficient Data Aggregation in Wireless Sensor Networks with Multiple Sinks**
- 5. A Secure and Efficient Group Key Agreement Scheme for VANET**
- 6. An efficient anonymous batch authentication scheme based on priority and cooperation for VANETs**
- 7. A Network Lifetime Extension-Aware Cooperative MAC Protocol for MANETs With Optimized Power Control**
- 8. Design and Implementation of An Efficient Multipath AODV Routing Algorithm for MANETs**
- 9. EEDAC-WSN: Energy Efficient Data Aggregation in Clustered WSN**
- 10. LAOD: Link Aware On Demand Routing in Flying Ad-hoc Networks**
- 11. A Two-Level Clustering based on Position, Data Correlation and Residual Energy in WSN**
- 12. A Hybrid Transmission Based Data Collection Scheme With Delay and Reliability Guaranteed for Lossy WSNs**
- 13. Resource Allocation for Performance Enhancement in Mobile Ad Hoc Networks**
- 14. Secret Sharing-Based Energy-Aware and Multi-Hop Routing Protocol for IoT Based WSNs**
- 15. Simplified Energy-Balanced Alternative-Aware Routing Algorithm for Wireless Body Area Networks**
- 16. BP-AODV: Blackhole Protected AODV Routing Protocol for MANETs Based on Chaotic Map**
- 17. EESRA: Energy Efficient Scalable Routing Algorithm for Wireless Sensor Networks**
- 18. Location Updating Scheme of Sink Node Based on Topology Balance and Reinforcement Learning in WSN**

- 19. A Congestion-Aware Clustering and Routing (CCR) Protocol for Mitigating Congestion in WSN**
- 20. An Evolutionary Self-Cooperative Trust Scheme Against Routing Disruptions in MANETs**
- 21. Performance analysis of MANET routing protocol for UAV communication**
- 22. Distributed routing algorithm with dynamic connection partition for mobile ad hoc networks**
- 23. Geographic Multipath Routing based on Triangle Link Quality Metric with Minimum Inter-path Interference for Wireless Multimedia Sensor Networks**
- 24. Research on Trust Sensing Based Secure Routing Mechanism for Wireless Sensor Network**
- 25. MC-MAC: a multi-channel based MAC scheme for interference mitigation in WBANs**
- 26. Efficient Fault-Tolerant Routing in IoT Wireless Sensor Networks Based on Bipartite-Flow Graph Modeling**
- 27. Blockchain-Based Dynamic Key Management for Heterogeneous Intelligent Transportation Systems**
- 28. TMED: A Spider Web-Like Transmission Mechanism for Emergency Data in Vehicular Ad Hoc Networks**
- 29. Energy-Efficient Data Gathering Framework-Based Clustering via Multiple UAVs in Deadline-Based WSN Applications**
- 30. MEQSA-OLSRv2: A Multicriteria-Based Hybrid Multipath Protocol for Energy-Efficient and QoS-Aware Data Routing in MANET-WSN Convergence Scenarios of IoT**
- 31. An Efficient Neighbor Discovery Scheme for Mobile WSN**
- 32. Detecting and Isolating Black-Hole Attacks in MANET Using Timer Based Baited Technique**
- 33. Rotating Energy Efficient Clustering for Heterogeneous Devices (REECHD)**
- 34. Efficient Energy Improvement in Heterogeneous WSNs using Multilevel Network Modeling**
- 35. A location Prediction-based routing scheme for opportunistic networks in an IoT scenario**
- 36. Enhancing Trust Management for Wireless Intrusion Detection via Traffic Sampling in the Era of Big Data**

- 37. ECCO: A Novel End-to-End Congestion Control Scheme in Multi-hop Cognitive Radio Ad Hoc Networks**
- 38. Shortest Processing Time Scheduling to Reduce Traffic Congestion in Dense Urban Areas**
- 39. Distributed Group Key Management for Event Notification Confidentiality among Sensors**
- 40. Lightweight Mutual Authentication for IoT and Its Applications**
- 41. A QoS-aware hybrid data aggregation scheme for Internet of Things**
- 42. On Energy-Efficient Straight-Line Routing Protocol for Wireless Sensor Networks**
- 43. Energy Efficient Dijkstra-Based Weighted Sum Minimization Routing Protocol for WSN**
- 44. Data-Based Cluster-Tree Formation Scheme for Large-Scale Wireless Sensor Networks**
- 45. A new Energy Aware Cluster Based Multi-hop Energy Efficient routing protocol for Wireless Sensor Networks**
- 46. Multiple Congestion Points and Congestion Reaction Mechanisms for Improving DCTCP Performance in Data Center Networks**