# Yanheng Liu

List of Publications by Year
in descending order

| 93 papers | 882 citations | 471509 17 h-index | 580821 25 g-index |
|---|---|---|---|
| 94 all docs | 94 docs citations | 94 times ranked | 689 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Node selection optimization for collaborative beamforming in wireless sensor networks. Ad Hoc Networks, 2016, 37, 389-403. | 5.5 | 48 |
| 2 | An ant colony based algorithm for overlapping community detection in complex networks. Physica A: Statistical Mechanics and Its Applications, 2015, 427, 289-301. | 2.6 | 46 |
| 3 | Sidelobe Reductions of Antenna Arrays via an Improved Chicken Swarm Optimization Approach. IEEE Access, 2020, 8, 37664-37683. | 4.2 | 46 |
| 4 | A Sidelobe and Energy Optimization Array Node Selection Algorithm for Collaborative Beamforming in Wireless Sensor Networks. IEEE Access, 2018, 6, 2515-2530. | 4.2 | 38 |
| 5 | Multiobjective biogeography based optimization algorithm with decomposition for community detection in dynamic networks. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 430-442. | 2.6 | 37 |
| 6 | An Antenna Array Sidelobe Level Reduction Approach through Invasive Weed Optimization. International Journal of Antennas and Propagation, 2018, 2018, 1-16. | 1.2 | 35 |
| 7 | Energy Efficient Collaborative Beamforming for Reducing Sidelobe in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2021, 20, 965-982. | 5.8 | 34 |
| 8 | IWORMLF: Improved Invasive Weed Optimization With Random Mutation and Lévy Flight for Beam Pattern Optimizations of Linear and Circular Antenna Arrays. IEEE Access, 2020, 8, 19460-19478. | 4.2 | 33 |
| 9 | Suppressing Sidelobe Level of the Planar Antenna Array in Wireless Power Transmission. IEEE Access, 2019, 7, 6958-6970. | 4.2 | 28 |
| 10 | A multiobjective discrete bat algorithm for community detection in dynamic networks. Applied Intelligence, 2018, 48, 3081-3093. | 5.3 | 27 |
| 11 | Time and Energy Minimization Communications Based on Collaborative Beamforming for UAV Networks: A Multi-Objective Optimization Method. IEEE Journal on Selected Areas in Communications, 2021, 39, 3555-3572. | 14.0 | 27 |
| 12 | Human dynamics based driver model for autonomous car. IET Intelligent Transport Systems, 2016, 10, 545-554. | 3.0 | 23 |
| 13 | Applications of Game Theory in Vehicular Networks: A Survey. IEEE Communications Surveys and Tutorials, 2021, 23, 2660-2710. | 39.4 | 22 |
| 14 | An Efficient Broadcast Scheme for Safety-Related Services in Distributed TDMA-Based VANETs. IEEE Communications Letters, 2019, 23, 1432-1436. | 4.1 | 21 |
| 15 | Improving Performance of Distributed Collaborative Beamforming in Mobile Wireless Sensor Networks: A Multiobjective Optimization Method. IEEE Internet of Things Journal, 2020, 7, 6787-6801. | 8.7 | 21 |
| 16 | Sidelobe Control by Node Selection Algorithm Based on Virtual Linear Array for Collaborative Beamforming in WSNs. Wireless Personal Communications, 2016, 90, 1443-1462. | 2.7 | 20 |
| 17 | Thinning of Concentric Circular Antenna Arrays Using Improved Discrete Cuckoo Search Algorithm. , 2017, , . | | 18 |
| 18 | Modelling and simulating worm propagation in static and dynamic traffic. IET Intelligent Transport Systems, 2014, 8, 155-163. | 3.0 | 17 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | SCMAC: A Slotted-Contention-Based Media Access Control Protocol for Cooperative Safety in VANETs. IEEE Internet of Things Journal, 2020, 7, 3812-3821. | 8.7 | 17 |
| 20 | Modeling and simulating traffic congestion propagation in connected vehicles driven by temporal and spatial preference. Wireless Networks, 2016, 22, 1121-1131. | 3.0 | 15 |
| 21 | A density based link clustering algorithm for overlapping community detection in networks. Physica A: Statistical Mechanics and Its Applications, 2017, 486, 65-78. | 2.6 | 15 |
| 22 | Secure and Energy-Efficient UAV Relay Communications Exploiting Collaborative Beamforming. IEEE Transactions on Communications, 2022, 70, 5401-5416. | 7.8 | 15 |
| 23 | Physical Layer Secure Communications Based on Collaborative Beamforming for UAV Networks: A Multi-objective Optimization Approach. , 2021, , . | | 13 |
| 24 | Sidelobe reduction of large-scale antenna array for 5G beamforming via hierarchical cuckoo search. Electronics Letters, 2017, 53, 1158-1160. | 1.0 | 12 |
| 25 | Non-Cooperative Game of Throughput and Hash Length for Adaptive Merkle Tree in Mobile Wireless Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4625-4650. | 6.3 | 12 |
| 26 | A Point-of-Interest Recommendation Method Exploiting Sequential, Category and Geographical Influence. ISPRS International Journal of Geo-Information, 2022, 11, 80. | 2.9 | 12 |
| 27 | The Joint Adaptive Kalman Filter (JAKF) for Vehicle Motion State Estimation. Sensors, 2016, 16, 1103. | 3.8 | 11 |
| 28 | A multiobjective discrete cuckoo search algorithm for community detection in dynamic networks. Soft Computing, 2017, 21, 6641-6652. | 3.6 | 11 |
| 29 | Cross-Bucket Generalization for Information and Privacy Preservation. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 449-459. | 5.7 | 11 |
| 30 | TCGMAC: A TDMA-based MAC protocol with collision alleviation based on slot declaration and game theory in VANETS. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3730. | 3.9 | 11 |
| 31 | Large-scale network intrusion detection based on distributed learning algorithm. International Journal of Information Security, 2009, 8, 25-35. | 3.4 | 10 |
| 32 | Charging Nodes Deployment Optimization in Wireless Rechargeable Sensor Network. , 2017, , . | | 9 |
| 33 | A trust propagation scheme in VANETs. , 2009, , . | | 8 |
| 34 | Non-cooperative game of effective channel capacity and security strength in vehicular networks. Physical Communication, 2017, 25, 214-227. | 2.1 | 8 |
| 35 | ASTSMAC: Application Suitable Time-Slot Sharing MAC Protocol for Vehicular Ad Hoc Networks. IEEE Access, 2019, 7, 118077-118087. | 4.2 | 8 |
| 36 | Joint sidelobe suppression and nulls control of large-scale linear antenna array using particle swarm optimization with global search and population mutation. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2710. | 1.9 | 8 |

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|---|---------|-----|-----------|
| 37 | Cross-layer tradeoff of QoS and security in Vehicular ad hoc Networks: A game theoretical approach. Computer Networks, 2021, 192, 108031. | 5.1 | 8 |
| 38 | A Collaborative Filtering Algorithm with Intragroup Divergence for POI Group Recommendation. Applied Sciences (Switzerland), 2021, 11, 5416. | 2.5 | 8 |
| 39 | Long- and Short-Term Preference Modeling Based on Multi-Level Attention for Next POI Recommendation. ISPRS International Journal of Geo-Information, 2022, 11, 323. | 2.9 | 8 |
| 40 | A scalable random forest algorithm based on MapReduce. , 2013, , . | | 7 |
| 41 | Power-pattern synthesis for energy beamforming in wireless power transmission. Neural Computing and Applications, 2018, 30, 2327-2342. | 5.6 | 7 |
| 42 | Research of Mobile IPv6 Application Based On Diameter Protocol. , 2006, , . | | 6 |
| 43 | Prolonging the lifetime of wireless sensor networks by utilizing feedback control. Wireless Networks, 2014, 20, 2095-2107. | 3.0 | 6 |
| 44 | Joint Scheduling and Trajectory Optimization of Charging UAV in Wireless Rechargeable Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 11796-11813. | 8.7 | 6 |
| 45 | AST: Activity-Security-Trust driven modeling of time varying networks. Scientific Reports, 2016, 6, 21352. | 3.3 | 5 |
| 46 | Beacon deployment strategy for guaranteed localization in wireless sensor networks. Wireless Networks, 2016, 22, 1947-1959. | 3.0 | 5 |
| 47 | A Cooperative Game Theory-Based Algorithm for Overlapping Community Detection. IEEE Access, 2020, 8, 68417-68425. | 4.2 | 5 |
| 48 | Research on Service-Oriented Lifetime and Network Density in WSN. , 2008, , . | | 4 |
| 49 | VIKE: vehicular IKE for context-awareness. Wireless Networks, 2015, 21, 1343-1362. | 3.0 | 4 |
| 50 | A tensor decomposition based collaborative filtering algorithm for time-aware POI recommendation in LBSN. Multimedia Tools and Applications, 2021, 80, 36215-36235. | 3.9 | 4 |
| 51 | Anomaly Intrusion Detection Methods for Peer-to-Peer System. , 2007, , . | | 3 |
| 52 | A new cascading failure model with delay time in congested complex networks. Journal of Systems Science and Systems Engineering, 2009, 18, 369-381. | 1.6 | 3 |
| 53 | A Novel DGW Scheme Based on 2D_PPCT and Permutation. , 2009, , . | | 3 |
| 54 | Model for router-level internet topology based on attribute evolution. IEEE Communications Letters, 2009, 13, 447-449. | 4.1 | 3 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 55 | Model for human dynamics based on habit. Science Bulletin, 2010, 55, 2744-2749. | 1.7 | 3 |
| 56 | An Improved Cuckoo search Algorithm for Optimizing the Beam Patterns of the Random Antenna Arrays. , 2018, , . | | 3 |
| 57 | Dynamic Policy Access Model Based on Formal Concept Analysis. , 2008, , . | | 2 |
| 58 | Detecting Conflict Policy Rules with Concept Lattice. , 2009, , . | | 2 |
| 59 | Modeling Email Worm Propagation Using Game Theory. , 2009, , . | | 2 |
| 60 | Modeling Algorithm for the Topology of Weighted Directed Network Based on the Triad Formation Rule. , 2011, , . | | 2 |
| 61 | Network-layer abstraction and simulation of vehicle communication stack. Wireless Networks, 2015, 21, 709-725. | 3.0 | 2 |
| 62 | Sparse Synthesis of Concentric Circular Antenna Array via Multi-Objective Evolutionary Computation. , 2018, , . | | 2 |
| 63 | Multi-objective optimization for distributed collaborative beamforming in mobile wireless sensor networks. , 2018, , . | | 2 |
| 64 | Planning Optimization of the Distributed Antenna System in High-Speed Railway Communication Network Based on Improved Cuckoo Search. International Journal of Antennas and Propagation, 2018, 2018, 1-14. | 1.2 | 2 |
| 65 | A self-adjusting quantum key renewal management scheme in classical network symmetric cryptography. Journal of Supercomputing, 2020, 76, 4212-4230. | 3.6 | 2 |
| 66 | Partially observed cross‐layer optimization for vehicular communications. International Journal of Communication Systems, 2018, 31, e3398. | 2.5 | 2 |
| 67 | Uplink Data Transmission Based on Collaborative Beamforming in UAV-assisted MWSNs. , 2021, , . | | 2 |
| 68 | SLNN: A Neural Network for Fuzzy Neural Network's Structure Learning. , 2006, , . | | 1 |
| 69 | Evaluating Access Terminal in Trusted Network. , 2009, , . | | 1 |
| 70 | A software cascading faults model. Science China Information Sciences, 2011, 54, 2454-2458. | 4.3 | 1 |
| 71 | Research on the Interconnection Model between Vehicular CAN Network and Internet Based on In-vehicle Gateway. , 2012, , . | | 1 |
| 72 | GPS-Based Vehicle Moving State Recognition Method and Its Applications on Dynamic In-Car Navigation Systems. , 2014, , . | | 1 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 73 | Vehicle mobility driven by traditional drivers versus connected drivers. Wireless Networks, 2016, 22, 1891-1900. | 3.0 | 1 |
| 74 | Computational data privacy in wireless networks. Peer-to-Peer Networking and Applications, 2017, 10, 865-873. | 3.9 | 1 |
| 75 | Distance-Driven Consensus Quantification. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1471-1484. | 8.0 | 1 |
| 76 | Computational habitual privacy. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3509. | 3.9 | 1 |
| 77 | Scheduling Optimization of Charging UAV in Wireless Rechargeable Sensor Networks. , 2021, , . | | 1 |
| 78 | A Joint Optimization Approach for UAV-enabled Collaborative Beamforming. , 2021, , . | | 1 |
| 79 | Joint optimization of SNR and motion energy consumption for UAV-enabled collaborative beamforming. Wireless Networks, 2022, 28, 2001-2016. | 3.0 | 1 |
| 80 | One New BRAS Model Based on Trusted Network. , 2008, , . | | 0 |
| 81 | Mining Correlated Policy Rules with Concept Lattice. , 2008, , . | | 0 |
| 82 | Combination of PANA and Diameter in Trusted Vehicle Network. , 2009, , . | | 0 |
| 83 | Study of emergency resource distribution model based on genetic algorithm. , 2010, , . | | 0 |
| 84 | An algorithm for selecting Chinese features based on TF-NIDF weight. , 2010, , . | | 0 |
| 85 | A novel trusted routing scheme using attribute similarity for VANET. , 2011, , . | | 0 |
| 86 | Double-station-based information gathering in wireless sensor networks. , 2011, , . | | 0 |
| 87 | ADMB: Application‐driven multihop broadcast for vehicular networks. International Journal of Communication Systems, 2017, 30, e3306. | 2.5 | 0 |
| 88 | Modeling and analyzing privacy-awareness social behavior network. , 2018, , . | | 0 |
| 89 | SHIYF: A Secured and High-Integrity YARN Framework. Electronics (Switzerland), 2019, 8, 548. | 3.1 | 0 |
| 90 | Research on the Application of Web Mining in E-Learning System. , 2009, , 1529-1533. | | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 91 | SNB-PPB: Social-network-based-privacy-preserving Broadcast for Vehicular Communications. , 2018, , . | | 0 |
| 92 | Joint Optimization QoS and Security of Wireless Communication Networks. , 2019, , . | | 0 |
| 93 | Anomaly Intrusion Detection Methods for Peer-to-Peer System. , 2007, , . | | 0 |