

## **CLOUD COMPUTING:**

1. An Application Placement Technique for Concurrent IoT Applications in Edge and Fog Computing Environments
2. A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications
3. Thermal Prediction for Efficient Energy Management of Clouds Using Machine Learning
4. EEDTO: An Energy-Efficient Dynamic Task Offloading Algorithm for Blockchain-Enabled IoT-Edge-Cloud Orchestrated Computing
5. Resource Management and Pricing for Cloud Computing based Mobile Blockchain with Pooling
6. Privacy-Preserving and Secure Cloud Computing: A Case of Large-Scale Nonlinear Programming
7. Robust Computation Offloading and Resource Scheduling in Cloudlet-Based Mobile Cloud Computing
8. Secure and Efficient Online Fingerprint Authentication Scheme Based on Cloud Computing
9. Performance Evaluation of Containerization in Edge-Cloud Computing Stacks for Industrial Applications: A Client Perspective
10. JointDNN: An Efficient Training and Inference Engine for Intelligent Mobile Cloud Computing Services
11. Data Access Control in Cloud Computing: Flexible and Receiver Extendable
12. An Efficient and Secured Framework for Mobile Cloud Computing
13. A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments
14. Distributed Multi-Cloud Multi-Access Edge Computing by Multi-Agent Reinforcement Learning

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15. Network and Application-Aware Cloud Service Selection in Peer-Assisted Environments
16. Bidirectional and Malleable Proof-of-Ownership for Large File in Cloud Storage
17. Concurrent Healthcare Data Processing and Storage Framework Using Deep-Learning in Distributed Cloud Computing Environment
18. Toward Secure Data Computation and Outsource for Multi-User Cloud-Based IoT
19. A Privacy-Preserving and Untraceable Group Data Sharing Scheme in Cloud Computing
20. A Verifiable and Fair Attribute-based Proxy Re-encryption Scheme for Data Sharing in Clouds
21. A Load Balancing Algorithm for the Data Centres to Optimize Cloud Computing Applications
22. TEA-Cloud: A Formal Framework for Testing Cloud Computing Systems
23. Enhancing Security of Health Information Using Modular Encryption Standard in Mobile Cloud Computing
24. Verifiable Semantic-aware Ranked Keyword Search in Cloud-Assisted Edge Computing
25. A High-Efficient Joint 'Cloud-Edge' Aware Strategy for Task Deployment and Load Balancing
26. Achieving Secure, Universal, and Fine-Grained Query Results Verification for Secure Search Scheme Over Encrypted Cloud Data
27. Scalable Fuzzy Keyword Ranked Search over Encrypted Data on Hybrid Clouds
28. High-performance Isolation Computing Technology for Smart IoT Healthcare in Cloud Environments
29. Provably Secure and Lightweight Identity-Based Authenticated Data Sharing Protocol for Cyber-Physical Cloud Environment
30. Searchable Public-Key Encryption with Cryptographic Reverse Firewalls for Cloud Storage
31. A Cloud-Assisted Reliable Trust Computing Scheme for Data Collection in Internet of Things

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32. BC-Mobile Device Cloud: A Blockchain-Based Decentralized Truthful Framework for Mobile Device Cloud
33. A Fine-Grained and Lightweight Data Access Control Model for Mobile Cloud Computing
34. Privacy-Preserving Keyword Similarity Search over Encrypted Spatial Data in Cloud Computing
35. Privacy-Preserving Traceable Attribute-Based Keyword Search in Multi-Authority Medical Cloud
36. Efficient Analysis of Resource Availability for Cloud Computing Systems to Reduce SLA Violations
37. Privacy-Preserving Optimal Energy Management for Smart Grid with Cloud-Edge Computing

## DATA MINING

1. Urban flow pattern mining based on multi-source heterogeneous data fusion and knowledge graph embedding
2. Mining Data Impressions from Deep Models as Substitute for the Unavailable Training Data
3. The Mining of Urban Hotspots Based on Multi-source Location Data Fusion
4. An Intelligent Data Mining-Based Fault Detection and Classification Strategy for Microgrid
5. Computing Co-Location Patterns in Spatial Data with Extended Objects: A Scalable Buffer-Based Approach
6. On the Efficient Representation of Datasets as Graphs to Mine Maximal Frequent Itemsets

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7. Rings for Privacy: An Architecture for Large Scale Privacy-Preserving Data Mining
8. Detection and Prediction of Diabetes Using Data Mining: A Comprehensive Review
9. Computing Co-Location Patterns in Spatial Data with Extended Objects: A Scalable Buffer-Based Approach
10. Feature-Free Explainable Data Mining in SAR Images Using Latent Dirichlet Allocation
11. Intelligent and adaptive web data extraction system using convolutional and long short-term memory deep learning networks
12. Comparative Assessment of Process Mining for Supporting IoT Predictive Security
13. SCPM-CR: A Novel Method for Spatial Co-location Pattern Mining with Coupling Relation Consideration
14. Intelligent Fraud Detection in Financial Statements using Machine Learning and Data Mining: A Systematic Literature Review
15. Mapping the Big Data Landscape: Technologies, Platforms and Paradigms for Real-Time Analytics of Data Streams
16. A Novel Coal–Rock Recognition Method for Coal Mining Working Face Based on Laser Point Cloud Data
17. *TaxThemis*: Interactive Mining and Exploration of Suspicious Tax Evasion Groups
18. Adversarial Attacks on Multi-Network Mining: Problem Definition and Fast Solutions
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## AI

Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19

IoT-Enabled Social Relationships Meet Artificial Social Intelligence

Multi-Objective Hybrid Artificial Intelligence Approach for Fault Diagnosis of Aerospace Systems

## VANET:

1. Provable Secure Identity-based Anonymous and Privacy-Preserving Inter-vehicular Authentication Protocol for VANETs using PUF
2. Proven Secure Tree-based Authenticated Key Agreement for Securing V2V and V2I Communications in VANETs
3. Efficient Privacy-Preserving Authentication Scheme with Fine-grained Error Location for Cloud-based VANET
4. An RSU Deployment Strategy based on Traffic Demand in Vehicular Ad Hoc Networks (VANETs)
5. Modeling and Analysis of the Local Delay in an MEC-based VANET for a Suburban Area
6. A Low-Latency and Energy-Efficient Multimetric Routing Protocol based on Network Connectivity in VANET Communication
7. W-GeoR: Weighted Geographical Routing for VANET's Health Monitoring Applications in Urban Traffic Networks
8. Privacy-Preserving Deep Learning Model for Decentralized VANETs Using Fully Homomorphic Encryption and Blockchain
9. Two-layer Distributed Content Caching for Infotainment Applications in VANETs

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10. Load Balance Guaranteed Vehicle-to-Vehicle Computation Offloading for Min-Max Fairness in VANETs
11. DeepADV: A Deep Neural Network Framework for Anomaly Detection in VANETs
12. EPNS: Efficient Privacy Preserving Intelligent Traffic Navigation from Multiparty Delegated Computation in Cloud-Assisted VANETs
13. On the Security of a Lightweight Conditional Privacy-Preserving Authentication in VANETs
14. HDRS: A Hybrid Reputation System With Dynamic Update Interval for Detecting Malicious Vehicles in VANETs
15. Software-Defined Cooperative Data Sharing in Edge Computing Assisted 5G-VANET
16. CPPA-D: Efficient Conditional Privacy-Preserving Authentication Scheme With Double-Insurance in VANETs
17. ALMS: Asymmetric Lightweight Centralized Group Key Management Protocol for VANETs
18. A Blockchain-Based Emergency Message Transmission Protocol for Cooperative VANET
19. Tracking Based Mix-Zone Location Privacy Evaluation in VANET
20. SEMA: Secure and Efficient Message Authentication Protocol for VANETs
21. Coordination Game Theory-Based Adaptive Topology Control for Hybrid VLC/RF VANET
22. Adaptive UAV-Assisted Geographic Routing With Q-Learning in VANET
23. An Anonymous Batch Authentication and Key Exchange Protocols for 6G Enabled VANETs
24. Connectivity Probability Analysis for VANET Freeway Traffic Using a Cell Transmission Model
25. A Privacy-Preservation Framework Based on Biometrics Blockchain (BBC) to Prevent Attacks in VANET
26. Secure and Lightweight Conditional Privacy-Preserving Authentication for Securing Traffic Emergency Messages in VANETs

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27. A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs
28. Blockchain-Based Trust Management Model for Location Privacy Preserving in VANET

## **MANET:**

1. Delay-Constrained Topology-Transparent Distributed Scheduling for MANETs
2. A Hybrid Wormhole Attack Detection in Mobile Ad-Hoc Network (MANET)
3. Trust Aware Secure Energy Efficient Hybrid Protocol for MANET
4. P2P Data Dissemination for Real-Time Streaming Using Load-Balanced Clustering Infrastructure in MANETs With Large-Scale Stable Hosts
5. An Active-Routing Authentication Scheme in MANET
6. Design of Novel Mobility and Obstacle-Aware Algorithm for Optimal MANET Routing
7. Prediction of Scenarios for Routing in MANETs Based on Expanding Ring Search and Random Early Detection Parameters Using Machine Learning Techniques
8. A Recurrent Reward Based Learning Technique for Secure Neighbor Selection in Mobile AD-HOC Networks
9. ECHO: Efficient Zero-Control-Packet Broadcasting for Mobile Ad Hoc Networks

## **WIRELESS SENSOR NETWORK**

1. CAERM: Coverage Aware Energy Replenishment Mechanism Using Mobile Charger in Wireless Sensor Networks
2. Interference Prediction in Wireless Networks: Stochastic Geometry Meets Recursive Filtering
3. DORA: A Destination-Oriented Routing Algorithm for Energy-Balanced Wireless Sensor Networks

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4. A hybrid fault-tolerant routing based on Gaussian network for wireless sensor network
5. MCDP: Maximizing Cooperative Detection Probability for Barrier Coverage in Rechargeable Wireless Sensor Networks
6. CAERM: Coverage Aware Energy Replenishment Mechanism Using Mobile Charger in Wireless Sensor Networks
7. Broker-Based Nodes Recharging Scheme for Surveillance Wireless Rechargeable Sensor Networks
8. A Node Overhaul Scheme for Energy Efficient Clustering in Wireless Sensor Networks
9. DEKCS: A Dynamic Clustering Protocol to Prolong Underwater Sensor Networks
10. Reliable data storage in heterogeneous wireless sensor networks by jointly optimizing routing and storage node deployment
11. Energy-Efficient Node Deployment in Heterogeneous Two-Tier Wireless Sensor Networks With Limited Communication Range
12. Joint Data Collection and Fusion Using Mobile Sink in Heterogeneous Wireless Sensor Networks
13. Improved Deep Convolutional Neural Network based Malicious Node Detection and Energy-Efficient Data Transmission in Wireless Sensor Networks
14. Anchor Nodes Assisted Cluster-Based Routing Protocol for Reliable Data Transfer in Underwater Wireless Sensor Networks
15. Energy-Efficient Cooperative Caching for Information-Centric Wireless Sensor Networking
16. Value of Information Based Sensor Ranking for Efficient Sensor Service Allocation in Service Oriented Wireless Sensor Network
17. Intelligent Anti-Jamming Communication for Wireless Sensor Networks: A Multi-Agent Reinforcement Learning Approach
18. Lightweight Fault Detection Strategy for Wireless Sensor Networks Based on Trend Correlation

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19. An Unequally Clustered Multi-hop Routing Protocol Based on Fuzzy Logic for Wireless Sensor Networks
20. QoS-Aware Energy Management and Node Scheduling Schemes for Sensor Network-Based Surveillance Applications
21. Robust Decentralized and Distributed Estimation of a Correlated Parameter Vector in MIMO-OFDM Wireless Sensor Networks
22. Energy-Efficient Cluster-Based Wireless Sensor Networks Using Adaptive Modulation: Performance Analysis
23. A Robust Tracking Algorithm Based on Modified Generalized Probability Data Association for Wireless Sensor Network
24. Multi-dimensional Privacy-Preserving Average Consensus in Wireless Sensor Networks

## **IMAGE CLASSIFICATION:**

1. Object-Scale Adaptive Convolutional Neural Networks for High-Spatial Resolution Remote Sensing Image Classification
2. Discriminative Feature Learning for Thorax Disease Classification in Chest X-ray Images
3. Multiscale CNN With Autoencoder Regularization Joint Contextual Attention Network for SAR Image Classification
4. Study of texture segmentation and classification for grading small hepatocellular carcinoma based on CT images
5. A Hybrid Network With Structural Constraints for SAR Image Scene Classification
6. Combining Multiple Classifiers for Domain Adaptation of Remote Sensing Image Classification
7. COVID-19-CT-CXR: A Freely Accessible and Weakly Labeled Chest X-Ray and CT Image Collection on COVID-19 From Biomedical Literature
8. Classification of Remotely Sensed Images Using an Ensemble of Improved Convolutional Network

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9. Effects of Lossy Compression on Remote Sensing Image Classification Based on Convolutional Sparse Coding
10. An Efficient Classification of MRI Brain Images
11. Advanced Meta-Heuristics, Convolutional Neural Networks, and Feature Selectors for Efficient COVID-19 X-Ray Chest Image Classification
12. Tropical Cyclone Intensity Classification and Estimation Using Infrared Satellite Images With Deep Learning
13. Classification of Large-Scale High-Resolution SAR Images With Deep Transfer Learning

## **IMAGE SEGMENTATION:**

1. SpineParseNet: Spine Parsing for Volumetric MR Image by a Two-Stage Segmentation Framework With Semantic Image Representation
2. CA-Net: Comprehensive Attention Convolutional Neural Networks for Explainable Medical Image Segmentation
3. Robust segmentation method for noisy images based on an unsupervised denoising filter
4. Pseudo CT Image Synthesis and Bone Segmentation From MR Images Using Adversarial Networks With Residual Blocks for MR-Based Attenuation Correction of Brain PET Data
5. MI-UNet: Multi-Inputs UNet Incorporating Brain Parcellation for Stroke Lesion Segmentation From T1-Weighted Magnetic Resonance Images
6. Study of texture segmentation and classification for grading small hepatocellular carcinoma based on CT images
7. Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19
8. SA-LuT-Nets: Learning Sample-Adaptive Intensity Lookup Tables for Brain Tumor Segmentation
9. Coarse-to-Fine Lung Nodule Segmentation in CT Images With Image Enhancement and Dual-Branch Network

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10. Ship Target Imaging in Airborne SAR System Based on Automatic Image Segmentation and ISAR Technique
11. Image Segmentation and Region Classification in Automotive High-Resolution Radar Imagery
12. Object-Scale Adaptive Convolutional Neural Networks for High-Spatial Resolution Remote Sensing Image Classification
13. Intensity Augmentation to Improve Generalizability of Breast Segmentation Across Different MRI Scan Protocols
14. PWD-3DNet: A Deep Learning-Based Fully-Automated Segmentation of Multiple Structures on Temporal Bone CT Scans
15. COVID-19 Chest CT Image Segmentation Network by Multi-Scale Fusion and Enhancement Operations
16. Multimodal Magnetic Resonance Image Brain Tumor Segmentation Based on ACU-Net Network
17. Lightweight Attention Convolutional Neural Network for Retinal Vessel Image Segmentation
18. CSU-Net: A Context Spatial U-Net for Accurate Blood Vessel Segmentation in Fundus Images
19. Kidney Segmentation in 3-D Ultrasound Images Using a Fast Phase-Based Approach
20. HDC-Net: Hierarchical Decoupled Convolution Network for Brain Tumor Segmentation
21. A Local Region-Based Level Set Method With Markov Random Field for Side-Scan Sonar Image Multi-Level Segmentation
22. A Novel Negative-Transfer-Resistant Fuzzy Clustering Model With a Shared Cross-Domain Transfer Latent Space and its Application to Brain CT Image Segmentation
23. Inconsistency-aware Uncertainty Estimation for Semi-supervised Medical Image Segmentation
24. JCS: An Explainable COVID-19 Diagnosis System by Joint Classification and Segmentation

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25. Anam-Net: Anamorphic Depth Embedding-Based Lightweight CNN for Segmentation of Anomalies in COVID-19 Chest CT Images
26. Hair Segmentation and Removal in Dermoscopic Images Using Deep Learning
27. Training on Polar Image Transformations Improves Biomedical Image Segmentation
28. Parallel Deep Learning Algorithms With Hybrid Attention Mechanism for Image Segmentation of Lung Tumors
29. Anatomically Constrained Deep Learning for Automating Dental CBCT Segmentation and Lesion Detection
30. APRNet: A 3D Anisotropic Pyramidal Reversible Network with Multi-modal Cross-Dimension Attention for Brain Tissue Segmentation in MR Images
31. An Ensemble of U-Net Models for Kidney Tumor Segmentation with CT images
32. COVID-19-CT-CXR: A Freely Accessible and Weakly Labeled Chest X-Ray and CT Image Collection on COVID-19 From Biomedical Literature

## **IMAGE ENHANCEMENT:**

Joint Luminance and Chrominance Learning for Underwater Image Enhancement

Two-Branch Deep Neural Network for Underwater Image Enhancement in HSV Color Space

TEBCF: Real-World Underwater Image Texture Enhancement Model Based on Blurriness and Color Fusion

Contrast Enhancement of Multiple Tissues in MR Brain Images With Reversibility

Non-Rigid Respiratory Motion Estimation of Whole-Heart Coronary MR Images Using Unsupervised Deep Learning

Coarse-to-Fine Lung Nodule Segmentation in CT Images With Image Enhancement and Dual-Branch Network

COVID-19 Chest CT Image Segmentation Network by Multi-Scale Fusion and Enhancement Operations

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Comprehensive Underwater Object Tracking Benchmark Dataset and Underwater Image Enhancement With GAN

## IMAGE RECOGNITION:

1. CapsField: Light Field-Based Face and Expression Recognition in the Wild Using Capsule Routing
2. A Deformation Robust ISAR Image Satellite Target Recognition Method Based on PT-CCNN
3. A CNN-Based Hybrid Ring Artifact Reduction Algorithm for CT Images
4. Application of Locally Invariant Robust PCA for Underwater Image Recognition
5. Facial Expression Recognition Using Local Gravitational Force Descriptor-Based Deep Convolution Neural Networks
6. Graph-Embedded Convolutional Neural Network for Image-based EEG Emotion Recognition
7. A Single Neural Network for Mixed Style License Plate Detection and Recognition
8. Dual-Features Student-t Distribution Mixture Model Based Remote Sensing Image Registration
9. SCEP—A New Image Dimensional Emotion Recognition Model Based on Spatial and Channel-Wise Attention Mechanisms
10. Plant Disease Recognition: A Large-Scale Benchmark Dataset and a Visual Region and Loss Reweighting Approach
11. Learning Complete and Discriminative Direction Pattern for Robust Palmprint Recognition
12. Periocular-Assisted Multi-Feature Collaboration for Dynamic Iris Recognition
13. Biometric Recognition of Infants using Fingerprint, Iris, and Ear Biometrics
14. SqueezeNet and Fusion Network-Based Accurate Fast Fully Convolutional Network for Hand Detection and Gesture Recognition
15. FA-GAN: Face Augmentation GAN for Deformation-Invariant Face Recognition
16. Interpretable Detail-Fidelity Attention Network for Single Image Super-Resolution

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17. Convolutional Sparse Support Estimator-Based COVID-19 Recognition From X-Ray Images
18. A High-Quality Multicategory SAR Images Generation Method With Multiconstraint GAN for ATR
19. Adversarial Examples for CNN-Based SAR Image Classification: An Experience Study
20. Discriminative Feature Learning for Thorax Disease Classification in Chest X-ray Images
21. Extreme Downsampling and Joint Feature for Coding-Based Palmprint Recognition
22. Identity-aware Facial Expression Recognition via Deep Metric Learning based on Synthesized Images
23. Rotation Equivariant Feature Image Pyramid Network for Object Detection in Optical Remote Sensing Imagery
24. Robust Imaging-Free Object Recognition Through Anderson Localizing Optical Fiber
25. Brain Extraction from Brain MRI Images Based on Wasserstein GAN and O-Net