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| Sl.No | 2018 & 2019 Project Title | Year |
|  | **Cloud Computing** |  |
|  |  |  |
| 1 | **CLASS: Cloud Log Assuring Soundness and Secrecy Scheme for Cloud Forensics** | **2018** |
| 2 | **Cloud Centric Authentication for Wearable Healthcare Monitoring System** | **2018** |
| 3 | **Towards Shared Ownership in the Cloud** | **2018** |
| 4 | **Security Analysis of Smartphone and Cloud Computing Authentication Frameworks and Protocols** | **2018** |
| 5 | **Integrated Authentication and Key Agreement Framework for Vehicular Cloud Computing** | **2018** |
| 6 | **Dynamic VM Scaling: Provisioning and Pricing through an Online Auction** | **2018** |
| 7 | **An Approach to Balance Maintenance Costs and Electricity Consumption in Cloud Data Centers** | **2018** |
| 8 | **Secure and Sustainable Load Balancing of Edge Datacenters in Fog Computing** | **2018** |
| 9 | **Semantic-based Compound Keyword Search over Encrypted Cloud Data** | **2018** |
| 10 | **A Practical Public Key Encryption Scheme Based on Learning Parity with Noise** | **2018** |
| 11 | **A Power-of-Two Choices Based Algorithm for Fog Computing** | **2018** |
| 12 | **virtFlow: Guest Independent Execution Flow Analysis Across Virtualized Environments** | **2018** |
| 13 | **Adaptive Resource Management for Analyzing Video Streams from Globally Distributed Network Cameras** | **2018** |
| 14 | **Enhancing Performance and Energy Efficiency for Hybrid Workloads in Virtualized Cloud Environment** | **2018** |
| 15 | **Minimal Cost Server Configuration for Meeting Time-Varying Resource Demands in Cloud Centers** | **2018** |
| 16 | **Aggregation-Based Colocation Datacenter Energy Management in Wholesale Markets** | **2018** |
| 17 | **Provably secure and lightweight identity-based authenticated data sharing protocol for cyber-physical cloud environment** | **2018** |
| 18 | **Energy Efficient Scheduling of Servers with Multi-Sleep Modes for Cloud Data Center** | **2018** |
| 19 | **SEPDP: Secure and Efficient Privacy Preserving Provable Data Possession in Cloud Storage** | **2018** |
| 20 | **HealthDep: An Efficient and Secure Deduplication Scheme for Cloud-Assisted eHealth Systems** | **2018** |
| 21 | **An Efficient and Fair Multi-Resource Allocation Mechanism for Heterogeneous Servers** | **2018** |
| 22 | **VMGuard: A VMI-based Security Architecture for Intrusion Detection in Cloud Environment** | **2018** |
| 23 | **Price-based Resource Allocation for Edge Computing: A Market Equilibrium Approach** | **2018** |
| 24 | **Efficient Resource Allocation for On-Demand Mobile-Edge Cloud Computing** | **2018** |
| 25 | **An Efficient and Secured Framework for Mobile Cloud Computing** | **2018** |
| 26 | **Efficient Traceable Authorization Search System for Secure Cloud Storage** | **2018** |
| 27 | **A Robust Formulation for Efficient Application Offloading to Clouds** | **2018** |
| 28 | **A Planning Approach for Reassigning Virtual Machines in IaaS Clouds** | **2018** |
| 29 | **Efficient Retrieval Over Documents Encrypted by Attributes in Cloud Computing** | **2018** |
| 30 | **A Key-Policy Attribute-Based Temporary Keyword Search scheme for Secure Cloud Storage** | **2018** |
| 31 | **Combining Data Owner-side and Cloud-side Access Control for Encrypted Cloud Storage** | **2018** |
| 32 | **A Lightweight Secure Data Sharing Scheme for Mobile Cloud Computing** | **2018** |
| 33 | **A New Lightweight Symmetric Searchable Encryption Scheme for String Identification** | **2018** |
| 34 | **A Three-Layer Privacy Preserving Cloud Storage Scheme Based on Computational Intelligence in Fog Computing** | **2018** |
| 35 | **Achieving Secure and Efficient Dynamic Searchable Symmetric Encryption over Medical Cloud Data** | **2018** |
| 36 | **An Efficient and Privacy-Preserving Biometric Identification Scheme in Cloud Computing** | **2018** |
| 37 | **An Efficient Ranked Multi-Keyword Search for Multiple Data Owners Over Encrypted Cloud Data** | **2018** |
| 38 | **Audit-Free Cloud Storage via Deniable Attribute-based Encryption** | **2018** |
| 39 | **Catch You if You Misbehave: Ranked Keyword Search Results Verification in Cloud Computing** | **2018** |
| 40 | **Chaotic Searchable Encryption for Mobile Cloud Storage** | **2018** |
| 41 | **Unified Fine-grained Access Control for Personal Health Records in Cloud Computing** | **2018** |
| 42 | **CryptCloud+: Secure and Expressive Data Access Control for Cloud Storage** | **2018** |
| 43 | **DROPS: Division and Replication of Data in Cloud for Optimal Performance and Security** | **2018** |
| 44 | **Efficient and Expressive Keyword Search Over Encrypted Data in Cloud** | **2018** |
| 45 | **Efficient Fine-Grained Data Sharing Mechanism for Electronic Medical Record Systems with Mobile Devices** | **2018** |
| 46 | **Efficient Retrieval over Documents Encrypted by Attributes in Cloud Computing** | **2018** |
| 47 | **Efficient Traceable Authorization Search System for Secure Cloud Storage** | **2018** |
| 48 | **Fine-Grained Two-Factor Protection Mechanism for Data Sharing in Cloud Storage** | **2018** |
| 49 | **Identity-Based Private Matching over Outsourced Encrypted Datasets** | **2018** |
| 50 | **Inference Attack-Resistant E-Healthcare Cloud System with Fine-Grained Access Control** | **2018** |
| 51 | **Lightweight and Privacy-Preserving Delegatable Proofs of Storage with Data Dynamics in Cloud Storage** | **2018** |
| 52 | **Privacy Preservation for Outsourced Medical Data With Flexible Access Control** | **2018** |
| 53 | **Privacy Protection and Intrusion Avoidance for Cloudlet-based Medical Data Sharing** | **2018** |
| 54 | **Provably Secure Fine-Grained Data Access Control over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Applications** | **2018** |
| 55 | **Publicly Verifiable Boolean Query Over Outsourced Encrypted Data** | **2018** |
| 56 | **Secure and Efficient Attribute-Based Access Control for Multiauthority Cloud Storage** | **2018** |
| 57 | **Secure Data Group Sharing and Dissemination with Attribute and Time Conditions in Public Cloud** | **2018** |
| 58 | **Secure Fine-Grained Access Control and Data Sharing for Dynamic Groups in Cloud** | **2018** |
| 59 | **SeSPHR: A Methodology for Secure Sharing of Personal Health Records in the Cloud** | **2018** |
| 60 | **Towards Privacy-preserving Content-based Image Retrieval in Cloud Computing** |  |
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|  | **Information Forensics Network Security &**  **Information Forensics and Security** |  |
|  |  |  |
| 1 | **3-HBP: A Three-Level Hidden Bayesian Link Prediction Model in Social Networks** | **2018** |
| 2 | **Supervised and Unsupervised Aspect Category Detection for Sentiment Analysis With Co-Occurrence Data** | **2018** |
| 3 | **Towards Shared Ownership in the Cloud** | **2018** |
| 4 | **Cyber threats under the Bed** | **2018** |
| 5 | **A Practical Public Key Encryption Scheme Based on Learning Parity with Noise** | **2018** |
| 6 | **A Network Coding and DES Based Dynamic Encryption Scheme for Moving Target Defense** | **2018** |
| 7 | **Exploring Feature Coupling and Model Coupling for Image Source Identification** | **2018** |
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|  | **Information and Security Systems** |  |
| 1 | **Fraud Find: Financial Fraud Detection by Analyzing Human Behavior** | **2018** |
| 2 | **Fraud Vis: Understanding Unsupervised Fraud Detection Algorithms** | **2018** |
| 3 | **Machine Learning Applied to Rotating Check Fraud Detection** | **2018** |
| 4 | **Random Forest for Credit Card Fraud Detection** | **2018** |
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|  | **SOCIAL NETWORK** |  |
| 1 | **3-HBP: A Three-Level Hidden Bayesian Link Prediction Model in Social Networks** | **2018** |
| 2 | **Analyzing and Detecting Money-Laundering Accounts in Online Social Networks** | **2018** |
| 3 | **Detection of suicide-related posts in Twitter data streams** | **2018** |
| 4 | **Risk Assessment in Social Networks based on User Anomalous Behaviours** | **2018** |
| 5 | **Segregating Spammers and Unsolicited Bloggers from Genuine Experts on Twitter** | **2018** |
| 6 | **Semi-Supervised Spam Detection in Twitter Stream** | **2018** |
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|  | **DATA MINING** |  |
| 1 | **Emotion Recognition on Twitter: Comparative Study and Training a Unison Model** | **2018** |
| 2 | **Discovering Canonical Correlations between Topical and Topological Information in Document Networks** | **2018** |
| 3 | **Reverse k Nearest Neighbor Search over Trajectories** | **2018** |
| 4 | **Range-based Nearest Neighbor Queries with Complex-shaped Obstacles** | **2018** |
| 5 | **Complementary Aspect-based Opinion Mining** | **2018** |
| 6 | **Profit Maximization for Viral Marketing in Online Social Networks Algorithms and analysis** | **2018** |
| 7 | **A Two-Phase Algorithm for Differentially Private Frequent Subgraph Mining** | **2018** |
| 8 | **Online Product Quantization** | **2018** |
| 9 | **An Efficient Method for High Quality and Cohesive Topical Phrase Mining** | **2018** |
| 10 | **Fast Cosine Similarity Search in Binary Space with Angular Multi-index Hashing** | **2018** |
| 11 | **Automated Phrase Mining from Massive Text Corpora** | **2018** |
| 12 | **Collective List-Only Entity Linking: A Graph-Based Approach** | **2018** |
| 13 | **Principal Component Analysis Based Filtering for Scalable, High Precision k-NN Search** | **2018** |
| 14 | **Complementary Aspect-based Opinion Mining** | **2018** |
| 15 | **A Weighted Frequent Itemset Mining Algorithm for Intelligent Decision in Smart Systems** | **2018** |
| 16 | **Fuzzy Bag-of-Words Model for Document Representation** | **2018** |
| 17 | **Document Summarization for Answering Non-Factoid Queries** | **2018** |
| 18 | **Efficient Vertical Mining of High Average-Utility Itemsets based on Novel Upper-Bounds** | **2018** |
| 19 | **Supervised Topic Modeling using Hierarchical Dirichlet Process-based Inverse Regression: Experiments on E-Commerce Applications** | **2018** |
| 20 | **Entity Linking: An Issue to Extract Corresponding Entity With Knowledge Base** | **2018** |
| 21 | **Frequent Itemsets Mining with Differential Privacy over Large-scale Data** | **2018** |
| 22 | **Opinion Aspect Relations in Cognizing Customer Feelings via Reviews** | **2018** |
| 23 | **Highlighter: automatic highlighting of electronic learning documents** | **2018** |
| 24 | **Predicting Contextual Informativeness for Vocabulary Learning** | **2018** |
| 25 | **Search Result Diversity Evaluation based on Intent Hierarchies** | **2018** |
| 26 | **Selective Database Projections Based Approach for Mining High-Utility Itemsets** | **2018** |
| 27 | **A Correlation-based Feature Weighting Filter for Naive Bayes** | **2018** |
| 28 | **Web Media and Stock Markets : A Survey and Future Directions from a Big Data Perspective** | **2018** |
| 29 | **A Two-stage Biomedical Event Trigger Detection Method Integrating Feature Selection and Word Embeddings** | **2018** |
| 30 | **Bayesian Nonparametric Learning for Hierarchical and Sparse Topics** | **2018** |
| 31 | **Comments Mining With TF-IDF: The Inherent Bias and Its Removal** | **2018** |
| 32 | **Relevant Feedback Based Accurate and Intelligent Retrieval on Capturing User Intention for Personalized Websites** | **2018** |
| 33 | **Characterizing and Predicting Early Reviewers for Effective Product Marketing on E-Commerce Websites** | **2018** |
| 34 | **CoDetect: Financial Fraud Detection With Anomaly Feature Detection** | **2018** |
| 35 | **When to Make a Topic Popular Again? A Temporal Model for Topic Re-hotting Prediction in Online Social Networks** | **2018** |
| 36 | **Health Monitoring on Social Media over Time** | **2018** |
| 37 | **l-Injection: Toward Effective Collaborative Filtering Using Uninteresting Items** | **2018** |
| 38 | **On Generalizing Collective Spatial Keyword Queries** | **2018** |
| 39 | **Privacy Characterization and Quantification in Data Publishing** | **2018** |
| 40 | **Road Traffic Speed Prediction: A Probabilistic Model Fusing Multi-Source Data** | **2018** |
| 41 | **Scalable Content-Aware Collaborative Filtering for Location Recommendation** | **2018** |
| 42 | **SDE: A Novel Clustering Framework Based on Sparsity-Density Entropy** | **2018** |
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|  | **MACHINE LEARNING** |  |
| 1 | **A Comprehensive Study on Social Network Mental Disorders Detection via Online Social Media Mining** | **2018** |
| 2 | **A Credibility Analysis System for Assessing Information on Twitter** | **2018** |
| 3 | **A Novel Machine Learning Algorithm for Spammer Identification in Industrial Mobile Cloud Computing** | **2018** |
| 4 | **Credit Card Fraud Detection Using AdaBoost and Majority Voting** | **2018** |
| 5 | **Hate Speech on Twitter: A Pragmatic Approach to Collect Hateful and Offensive Expressions and Perform Hate Speech Detection** | **2018** |
| 6 | **Performance Comparison of Support Vector Machine, Random Forest, and Extreme Learning Machine for Intrusion Detection** | **2018** |
| 7 | **Supervised and Unsupervised Aspect Category Detection for Sentiment Analysis With Co-Occurrence Data** | **2018** |
| 8 | **Using Data Mining to Predict Hospital Admissions From the Emergency Department** | **2018** |
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|  | **Mobile Computing** |  |
| 1 | **Distributed Faulty Node Detection in Delay Tolerant Networks Design and Analysis** | **2018** |
| 2 | **Selfish Decentralized Computation Offloading for Mobile Cloud Computing in Dense Wireless Networks** | **2018** |
| 3 | **Service Provisioning in Mobile Environments through Opportunistic Computing** | **2018** |
| 4 | **Traffic-Aware Efficient Mapping of Wireless Body Area Networks to Health Cloud Service Providers in Critical Emergency Situations** | **2018** |
| 5 | **Efficient Privacy-Aware Authentication Scheme for Mobile Cloud Computing Services** | **2018** |
| 6 | **Identifying On-site Users for Social Events: Mobility, Content, and Social Relationship** | **2018** |
| 7 | **Protecting Location Privacy for Task Allocation in Ad Hoc Mobile Cloud Computing** | **2018** |
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|  | **Wireless Sensor Networks** |  |
| 1 | **Traffic and Energy Aware Routing for Heterogeneous Wireless Sensor Networks** | **2018** |
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|  | **Android Projects** |  |
| 1 | **Cloud Centric Authentication for Wearable Healthcare Monitoring System** | **2018** |
| 2 | **Significant Permission Identification for Machine Learning Based Android Malware Detection** | **2018** |
| 3 | **MoRe-care: Mobile-assisted remote healthcare service delivery** | **2018** |
| 4 | **Droid Fusion: A Novel Multilevel Classifier Fusion Approach for Android Malware Detection** | **2018** |
| 5 | **A Tale of Two Fashions: An Empirical Study on the Performance of Native Apps and Web Apps on Android** | **2018** |
| 6 | **Characterizing Privacy Risks of Mobile Apps with Sensitivity Analysis** | **2018** |
| 7 | **Ad Capsule: Practical Confinement of Advertisements in Android Applications** | **2018** |
| 8 | **Android User Privacy Preserving through Crowdsourcing** | **2018** |
| 9 | **Uncovering the Face of Android Ransomware: Characterization and Real-time Detection** | **2018** |
| 10 | **MalPat: Mining Patterns of Malicious and Benign Android Apps via Permission-Related APIs** | **2018** |
| 11 | **Understanding In-app Ads and Detecting Hidden Attacks through the Mobile App-Web Interface** | **2018** |
| 12 | **Text based Graphical Password System to Obscure Shoulder Surfing** | **2018** |
| 13 | **Shift Route: Achieving Location Privacy for Map Services on Smart phones** | **2018** |
| 14 | **Counter Measuring Conceivable Security Threats on Smart Healthcare Devices** | **2018** |
| 15 | **Construction and Mitigation of User-Behavior-Based Covert Channels on Smart phones** | **2018** |
| 16 | **A Secure Transaction Scheme With Certificateless Cryptographic Primitives for IoT-Based Mobile Payments** | **2018** |
| 17 | **Code Tracker: A Lightweight Approach to Track and Protect Authorization Codes in SMS Messages** | **2018** |
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|  | **Networking and Service Computing, Dependable and  Secure Computing** |  |
| 1 | **Deep Learning of Constrained Autoencoders for Enhanced Understanding of Data** | **2018** |
| 2 | **Efficient Fine-Grained Data Sharing Mechanism for Electronic Medical Record Systems with Mobile Devices** | **2018** |
| 3 | **Analyzing and Detecting Money-Laundering Accounts in Online Social Networks** | **2018** |
| 4 | **Magic Train: Design of Measurement Methods Against Bandwidth Inflation Attacks** | **2018** |
| 5 | **Energy Efficient Link-Delay Aware Routing in Wireless Sensor Networks** | **2018** |
| 6 | **Quality and Profit Assured Trusted Cloud Federation Formation: Game Theory Based Approach** | **2018** |
| 7 | **Optimizing Autonomic Resources for the Management of Large Service-Based Business Processes** | **2018** |
| 8 | **Scheduling Inter-Datacenter Video Flows for Cost Efficiency** | **2018** |
| 9 | **Lightweight Fine-Grained Search over Encrypted Data in Fog Computing** | **2018** |
| 10 | **GeTrust: A guarantee-based trust model in Chord-based P2P networks** | **2018** |
| 11 | **Migration Modeling and Learning Algorithms for Containers in Fog Computing** | **2018** |
| 12 | **Multi-user Multi-task Computation Offloading in Green Mobile Edge Cloud Computing** | **2018** |
| 13 | **Achieving Fairness-aware Two-level Scheduling for Heterogeneous Distributed Systems** | **2018** |
| 14 | **Shared Predictive Cross-Modal Deep Quantization** | **2018** |
| 15 | **PROVEST: Provenance-based Trust Model for Delay Tolerant Networks** | **2018** |
| 16 | **Traffic and Energy Aware Routing for Heterogeneous Wireless Sensor Networks** | **2018** |
| 17 | **A Hybrid Approach for Detecting Automated Spammers in Twitter** | **2018** |
| 18 | **A Provably-Secure Cross-Domain Handshake Scheme with Symptoms-Matching for Mobile Healthcare Social Network** | **2018** |
| 19 | **Anonymization of Sensitive Quasi-Identifiers for l-Diversity and t-Closeness** | **2018** |
| 20 | **Collective Data-Sanitization for Preventing Sensitive Information Inference Attacks in Social Networks** | **2018** |
| 21 | **Exploiting Social Network to Enhance Human-to-Human Infection Analysis Without Privacy Leakage** | **2018** |
| 22 | **Trust-based Collaborative Privacy Management in Online Social Networks** | **2018** |
| 23 | **Lightweight Fine-Grained Search over Encrypted Data in Fog Computing** | **2018** |
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|  | **IEEE ACCESS & CYBER SECURITY** |  |
| 1 | **CoDetect: Financial Fraud Detection with Anomaly Feature** | **2018** |
| 2 | **Credit card fraud detection using AdaBoost and majority voting** | **2018** |
| 3 | **A Network Coding and DES Based Dynamic Encryption Scheme for Moving Target Defense** | **2018** |
| 4 | **A Data Analytics Approach to the Cybercrime Underground Economy** | **2018** |
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|  | **INTERNET OF THINGS (IOT)** |  |
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| 1 | **Cloud-based Fine-grained Health Information Access Control Framework for Lightweight IoT Devices with Dynamic Auditing and Attribute Revocation** |  |
| 2 | **Light-Weight Security and Data Provenance for Multi-Hop Internet of Things** |  |
| 3 | **MDSClone: Multidimensional Scaling Aided Clone Detection in Internet of Things** |  |
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|  | **Image Processing and Multimedia** |  |
| 1 | **Query-free Clothing Retrieval via Implicit Relevance Feedback** | **2018** |
| 2 | **Automatic Annotation of Text with Pictures** | **2018** |
| 3 | **Joint Latent Dirichlet Allocation for Social Tags** | **2018** |
| 4 | **Automatic Generation of Social Event Storyboard From Image Click-Through Data** | **2018** |
| 5 | **Joint Hypergraph Learning for Tag-based Image Retrieval** | **2018** |
| 6 | **A Unified Framework for Tracking Based Text Detection and Recognition from Web Videos** | **2018** |
|  | **Software Engineering** |  |
| 1 | **Reviving Sequential Program Birthmarking for Multithreaded Software Plagiarism Detection** | **2018** |
| 2 | **EVA: Visual Analytics to Identify Fraudulent Events** | **2018** |
| 3 | **A Developer Centered Bug Prediction Model** | **2018** |