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## NETWORKING

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSN01	A Cell Outage Management Framework for Dense Heterogeneous Networks	2015-16
2	ECSN02	A Context-Aware Trust-Based Information Dissemination Framework for Vehicular Networks	2015-16
3	ECSN03	A Dynamic Resource Allocation Scheme for Group Paging in LTE-Advanced Networks	2015-16
4	ECSN04	A Spectral Clustering Approach to Identifying Cuts in Wireless Sensor Networks	2015-16
5	ECSN05	A Virtual Coordinate-Based Bypassing Void Routing for Wireless Sensor Networks	2015-16
6	ECSN06	Bandwidth-Aware High-Throughput Routing with Successive Interference Cancellation in Multihop Wireless Networks	2015-16
7	ECSN07	Channel, Queue and Delay Aware Resource Allocation in Buffer-Aided Relay-Enhanced OFDMA Networks	2015-16
8	ECSN08	Dynamic Pricing over Multiple Rounds of Spectrum Leasing in Cognitive Radio	2015-16
9	ECSN09	Dynamic Routing for Flying Ad Hoc Networks	2015-16
10	ECSN10	E <sup>2</sup> R <sup>2</sup> : Energy-Efficient and Reliable Routing for Mobile Wireless Sensor Networks	2015-16
11	ECSN11	Energy-efficient and Mobile-aided Cooperative Localization in Cognitive Radio Networks	2015-16
12	ECSN12	Energy-Spectral Efficiency Tradeoff in Cognitive Radio Networks	2015-16
13	ECSN13	Evolving Defense Mechanism for Future Network Security	2015-16
14	ECSN14	GreenNet: an Energy Harvesting IP-enabled Wireless Sensor Network	2015-16
15	ECSN15	Handover Reduction via Joint Bandwidth Allocation and CAC in Randomly Distributed HCNs	2015-16
16	ECSN16	Hybrid Centralized-Distributed Resource Allocation for Device-to-Device Communication Underlying Cellular	2015-16

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		Networks	
17	ECSN17	Increasing User Perceived Quality by Selective Load Balancing of Video Traffic in Wireless Networks	2015-16
18	ECSN18	Interference Alignment Based on Antenna Selection with Imperfect Channel State Information in Cognitive Radio Networks	2015-16
19	ECSN19	Joint Congestion Control and Routing Optimization: An Efficient Second-Order Distributed Approach	2015-16
20	ECSN20	Joint Resource Allocation for Throughput Enhancement in Cognitive Radio Femtocell Networks	2015-16
21	ECSN21	Joint Spectrum and Power Allocation for D2D Communications Underlying Cellular Networks	2015-16
22	ECSN22	Joint Traffic Splitting, Rate Control, Routing and Scheduling Algorithm for Maximizing Network Utility in Wireless Mesh Networks	2015-16
23	ECSN23	Least Square Cooperative Localization	2015-16
24	ECSN24	Limited-Feedback Resource Allocation in Heterogeneous Cellular Networks	2015-16
25	ECSN25	Link Correlation Aware Data Dissemination in Wireless Sensor Networks	2015-16
26	ECSN26	Mobile Energy Sharing Networks: Performance Analysis and Optimization	2015-16
27	ECSN27	Multi-Objective Resource Allocation for Secure Communication in Cognitive Radio Networks with Wireless Information and Power Transfer	2015-16
28	ECSN28	Network Coding Based Reliable IPv6 Packet Delivery over IEEE 802.15.4 Wireless Personal Area Networks	2015-16
29	ECSN29	OARE: Overhearing-Aided Redundancy Elimination in Multi-Rate WLANs	2015-16
30	ECSN30	On the Optimization of Distributed Compression in Multi-Relay Cooperative Networks	2015-16
31	ECSN31	Opportunistic DF-AF Selection for Cognitive Relay Networks	2015-16
32	ECSN32	Opportunistic Routing With Congestion Diversity in Wireless Ad Hoc Networks	2015-16
33	ECSN33	Performance Modeling and Analysis of the IEEE 802.11p EDCA Mechanism for VANET	2015-16

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34	ECSN34	Rate and Power Allocation for Joint Coding and Transmission in Wireless Video Chat Applications	2015-16
35	ECSN35	SACRP: A Spectrum Aggregation-based Cooperative Routing Protocol for Cognitive Radio Ad-Hoc Networks	2015-16
36	ECSN36	Scheduling Impact on the Performance of Relay-Enhanced LTE-A Networks	2015-16
37	ECSN37	SeDS: Secure Data Sharing Strategy for D2D Communication in LTE-Advanced Networks	2015-16
38	ECSN38	Semi-Dynamic User-Specific Clustering for Downlink Cloud Radio Access Network	2015-16
39	ECSN39	Sparse Vehicular Sensor Networks for Traffic Dynamics Reconstruction	2015-16
40	ECSN40	Traffic-Aware Online Network Selection in Heterogeneous Wireless Networks	2015-16
41	ECSN41	Uplink Achievable Rate and Power Allocation in Cooperative LTE-Advanced Networks	2015-16
42	ECSN42	Wireless Anomaly Detection based on IEEE 802.11 Behavior Analysis	2015-16
43	ECSN43	Performance analysis of network coding with virtual overhearing in wireless networks	2015-16
44	ECSN44	Packet-Level Network compression: Realization and Scaling of the network-wide benefits	2015-16
45	ECSN45	Obfuscation of sensitive data for incremental release of network flows	2015-16
46	ECSN46	Information-centric network function virtualization over 5g mobile wireless networks	2015-16
47	ECSN47	Multi-layer high speed network design in mobile backhaul using robust optimization	2015-16
48	ECSN48	Separation of source-network coding and channel coding in wireline networks	2015-16
49	ECSN49	Resource allocation frameworks for network-coded layered multimedia multicast services	2015-16
50	ECSN50	Cooperative radio resource management in heterogeneous cloud radio access networks	2015-16

## SERVICE COMPUTING

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S.NO	CODE	PROJECT TITLE	YEAR
1	ECSSC01	Auction Mechanisms Toward Efficient Resource Sharing for Cloudlets in Mobile Cloud Computing	2015-16
2	ECSSC02	Minimizing Content Reorganization and Tolerating Imperfect Workload Prediction for Cloud-based Video-on-Demand Services	2015-16
3	ECSSC03	A New Approach to the Cloud-based Heterogeneous MapReduce Placement Problem	2015-16
4	ECSSC04	A Unified Business-Driven Cloud Management Framework	2015-16
5	ECSSC05	CCCloud: Context-aware and Credible Cloud Service Selection based on Subjective Assessment and Objective Assessment	2015-16
6	ECSSC06	On the Security of Data Access Control for Multiauthority CloudStorage Systems	2015-16
7	ECSSC07	Optimization of Complex Elastic Processes	2015-16
8	ECSSC08	An Integrated Semantic Web Service Discovery and Composition Framework	2015-16
9	ECSSC09	Constructing a Global Social Service Network for Better Quality of Web Service Discovery	2015-16
10	ECSSC10	A Co-training Strategy for Multiple View Clustering in Process Mining	2015-16
11	ECSSC11	A Location- and Diversity-aware News Feed System for Mobile Users	2015-16
12	ECSSC12	Process Discovery from Dependence-Complete Event Logs	2015-16
13	ECSSC13	Diversifying Web Service Recommendation Results via Exploring Service Usage History	2015-16
14	ECSSC14	VMCD: A Virtual Multi-Channel Disk I/O Scheduling Method for Virtual Machines	2015-16

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15	ECSSC15	An Efficient Privacy-Preserving Ranked Keyword Search Method	2015-16
16	ECSSC16	BGM-BLA: a new algorithm for dynamic migration of virtual machines in cloud computing	2015-16
17	ECSSC17	NCSshield: Protecting Decentralized, Matrix Factorization-Based Network Coordinate Systems	2015-16
18	ECSSC18	Supporting multi data stores applications in cloud environments	2015-16
19	ECSSC19	The Tomaco Hybrid Matching Framework for SAWSDL Semantic Web Services	2015-16
20	ECSSC20	Location-Aware and Personalized Collaborative Filtering for Web Service Recommendation	2015-16
21	ECSSC21	Accelerated PSO Swarm Search Feature Selection for Data Stream Mining Big Data	2015-16
22	ECSSC22	Modern Service Industry and Crossover Services: Development and Trends in China	2015-16
23	ECSSC23	Trust and Reputation of Web services Through QoS Correlation Lens	2015-16
24	ECSSC24	Fast Service Process Fragment Indexing and Ranking	2015-16
25	ECSSC25	Role-Based Integrated Access Control and Data Provenance for SOA Based Net-Centric Systems	2015-16
26	ECSSC26	Adaptive Service Selection According To The Service Density In Multiple Qos Aspects	2015-16
27	ECSSC27	Automatic Web Service Composition Based on Uncertainty Execution Effects	2015-16
28	ECSSC28	OMI-DL: An Ontology Matching Framework	2015-16
29	ECSSC29	TICRec: A Probabilistic Framework to Utilize Temporal	2015-16

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		Influence Correlations for Time-aware Location Recommendations	
30	ECSSC30	An Inter-Cloud Meta-Scheduling (ICMS) Simulation Framework: Architecture and Evaluation	2015-16
31	ECSSC31	A Highly Accurate Prediction Algorithm for Unknown Web Service QoS Values	2015-16
32	ECSSC32	Kriging-based Self-adaptive Cloud Controllers	2015-16
33	ECSSC33	An efficient algorithm for the bursting of service-based applications in hybrid Clouds	2015-16

## SOFTWARE ENGINEERING

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSSE01	Where was this SQL query executed? a static concept location approach	2015-16
2	ECSSE02	Dynamic Analysis of Application Delivery Network for Leveraging Software Defined Infrastructures	2015-16
3	ECSSE03	Playful learning in academic software engineering education	2015-16
4	ECSSE04	Extending the UML Statecharts Notation to Model Security Aspects	2015-16
5	ECSSE05	A survey on software architecture evaluation methods	2015-16
6	ECSSE06	Efficient Software-Based Mobile Cloud Computing Framework	2015-16
7	ECSSE07	Approving Updates in Collaborative Databases	2015-16
8	ECSSE08	Modeling Self-Adaptive Software Systems With Learning Petri Nets	2015-16
9	ECSSE09	SDStorage: A Software Defined Storage Experimental	2015-16

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		Framework	
10	ECSSE10	Aligning Qualitative, Real-Time, and Probabilistic Property Specification Patterns Using a Structured English Grammar	2015-16
11	ECSSE11	COVERT: Compositional Analysis of Android Inter-App Permission Leakage	2015-16
12	ECSSE12	Toward a learned project-specific fault taxonomy: application of software analytics	2015-16
13	ECSSE13	Evolution analysis for Accessibility Excessiveness in Java	2015-16
14	ECSSE14	Towards a common metamodel for traces of high performance computing systems to enable software analysis tasks	2015-16
15	ECSSE15	Evolution of dynamic feature usage in PHP	2015-16
16	ECSSE16	A Software Development Process Model Integrated to a Performance Measurement System	2015-16
17	ECSSE17	An orthogonal approach to reusable component discovery in cloud migration	2015-16
18	ECSSE18	Umple: A framework for Model Driven Development of Object-Oriented Systems	2015-16
19	ECSSE19	Analysis and Ranking of Software Engineering metrics	2015-16
20	ECSSE20	RbG: A documentation generator for scientific and engineering software	2015-16
21	ECSSE21	A Case Study of IaaS and SaaS in a Public Cloud	2015-16
22	ECSSE22	A multi-layer software-based fault-tolerance approach for heterogenous multi-core systems	2015-16
23	ECSSE23	The Effect of GoF Design Patterns on Stability: A Case Study	2015-16
24	ECSSE24	Optimal Group Size for Software Change Tasks: A Social	2015-16

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	Information Foraging Perspective	
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## MOBILE COMPUTING

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSMC01	Efficient and Transparent Wi-Fi Offloading for HTTP(S) POSTs	2015-16
2	ECSMC02	Accuracy-aware Interference Modeling and Measurement in Wireless Sensor Networks	2015-16
3	ECSMC03	Adaptive Intelligent Middleware Architecture for Mobile Real-time Communications	2015-16
4	ECSMC04	Comprehensive Performance Analysis and Sleep Window Determination for IEEE 802.16 Broadband Wireless Networks	2015-16
5	ECSMC05	Cost aware Service Placement and Load Dispatching in Mobile Cloud Systems	2015-16
6	ECSMC06	High-Throughput Reliable Multicast in Multi-Hop Wireless Mesh Networks	2015-16
7	ECSMC07	Mitigating Denial of Service Attacks in OLSR Protocol Using Fictitious Nodes	2015-16
8	ECSMC08	On Availability-Performability Tradeoff in Wireless Mesh Networks	2015-16
9	ECSMC09	Practical Secret Key Agreement for Full-Duplex Near Field Communications	2015-16
10	ECSMC10	Quality of Life Technologies: Experiences from the Field and the Key Research Challenges	2015-16
11	ECSMC11	Semi-Structure Routing and Analytical Frameworks for Cognitive Radio Networks	2015-16
12	ECSMC12	SenSpeed: Sensing Driving Conditions to Estimate Vehicle Speed in Urban Environments	2015-16
13	ECSMC13	Wormhole Attack Detection Algorithms in Wireless Network Coding Systems	2015-16
14	ECSMC14	Geospatial and Temporal Dynamics of Application Usage in Cellular Data Networks	2015-16
15	ECSMC15	Simultaneous Query for Wireless Sensor Networks: A Power	2015-16

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		Based Solution	
16	ECSMC16	Improving the Accuracy of Environment-Specific Channel Modelling	2015-16
17	ECSMC17	Contact Duration Aware Data Replication in DTNs with Licensed and Unlicensed Spectrum	2015-16
18	ECSMC18	Energy-aware Group LBS using D2D Offloading and M2M-based Mobile Proxy Handoff Mechanisms over the Mobile Converged Networks	2015-16
19	ECSMC19	DaGCM: A Concurrent Data Uploading Framework for Mobile Data Gathering in Wireless Sensor Networks	2015-16
20	ECSMC20	The Impact of Network Size and Mobility on Information Delivery in Cognitive Radio Networks	2015-16
21	ECSMC21	Analytic Performance Model for State-Based MAC Layer Cooperative Retransmission Protocols	2015-16
22	ECSMC22	Enlighten Wearable Physiological Monitoring Systems: On-body RF Characteristics Based Human Motion Classification Using a Support Vector Machine	2015-16
23	ECSMC23	Secondary VoIP Capacity in Opportunistic Spectrum Access Networks with Friendly Scheduling	2015-16
24	ECSMC24	Weakest-Link Coalition: Further Investigation on Cooperative Interference-Aware Spectrum Sensing and Access	2015-16
25	ECSMC25	BackPos: High Accuracy Backscatter Positioning System	2015-16
26	ECSMC26	Real-time and Robust Compressive Background Subtraction for Embedded Camera Networks	2015-16
27	ECSMC27	Delay-Constrained High Definition Video Transmission in Heterogeneous Wireless Networks with Multi-homed Terminals	2015-16
28	ECSMC28	Maximizing Data Collection Throughput on a Path in Energy	2015-16

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		Harvesting Sensor Networks Using a Mobile Sink	
29	ECSMC29	Toward Robust Relay Placement in 60GHz mm Wave Wireless Personal Area Networks with Directional Antenna	2015-16
30	ECSMC30	An Analytical Model for Interference Alignment in Multi-hop MIMO Networks	2015-16
31	ECSMC31	A Personalized Network Activity-Aware Approach to Reducing Radio Energy Consumption of Smartphones	2015-16
32	ECSMC32	A Scheduling Algorithm for MIMO DoF Allocation in Multi-hop Networks	2015-16
33	ECSMC33	Minimizing Peak Load from Information Cascades: Social Networks Meet Cellular Networks	2015-16
34	ECSMC34	Experiences with GreenGPS – Fuel-Efficient Navigation using Participatory Sensing	2015-16
35	ECSMC35	Road Network-Aware Spatial Alarms	2015-16
36	ECSMC36	SBVLC: Secure Barcode-based Visible Light Communication for Smartphones	2015-16
37	ECSMC37	Intra and Inter-Cell Resource Management in Full-Duplex Heterogeneous Cellular Networks	2015-16
38	ECSMC38	DSearching: Using Floating Mobility Information for Distributed Node Searching in DTNs	2015-16
39	ECSMC39	Secondary VoIP Capacity in Opportunistic Spectrum Access Networks with Friendly Scheduling	2015-16
40	ECSMC40	D2D: Delay-aware Distributed Dynamic Adaptation of Contention Window in Wireless Networks	2015-16
41	ECSMC41	Virtual Servers Co-Migration for Mobile Accesses: Online vs. Offline	2015-16
42	ECSMC42	Optimal and Maximized Configurable Power Saving Protocols	2015-16

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		for Corona-Based Wireless Sensor Networks	
43	ECSMC43	Modelling and Analysis of Communication Traffic Heterogeneity in Opportunistic Networks	2015-16
44	ECSMC44	Intra and Inter-Cell Resource Management in Full-Duplex Heterogeneous Cellular Networks	2015-16
45	ECSMC45	Trust evaluation method adapted to node behavior for secure routing in mobile ad hoc networks	2015-16
46	ECSMC46	Indoor user navigation for enhanced quality of experience in wireless local area networks	2015-16
47	ECSMC47	Decentralized and Parallel Constructions for Optimally Rigid Graphs in $R^2$	2015-16
48	ECSMC48	Energy Consumption Analysis and Minimization in Multi-Layer Heterogeneous Wireless Systems	2015-16
49	ECSMC49	Proposal of in-network caching system with dynamic content pre-fetching mechanism	2015-16
50	ECSMC50	Exploiting Heterogeneity for Improving Forwarding Performance in Mobile Opportunistic Networks: An Analytic Approach	2015-16

## PARALLEL AND DISTRIBUTED SYSTEM

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSPD01	A Cloud Gaming System Based on User???Level Virtualization and Its Resource Scheduling	2015-16
2	ECSPD02	Packet Cloud: a Cloudlet-based Open Platform for In-network Services	2015-16

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3	ECSPD03	Poris: A Scheduler for Parallel Soft Real-Time Applications in Virtualized Environment	2015-16
4	ECSPD04	Online Resource Scheduling under Concave Pricing for Cloud Computing	2015-16
5	ECSPD05	Performance-Aware Cloud Resource Allocation via Fitness-enabled Auction	2015-16
6	ECSPD06	VM buddies: Coordinating Live Migration of Multi-Tier Applications in Cloud Environments	2015-16
7	ECSPD07	Resource and Instance Hour Minimization for Deadline Constrained DAG Applications Using Computer Clouds	2015-16
8	ECSPD08	Improving the Network Lifetime of MANETs through Cooperative MAC Protocol Design	2015-16
9	ECSPD09	LEISURE: Load-Balanced Network-Wide Traffic Measurement and Monitor Placement	2015-16
10	ECSPD10	Universal Network Coding-Based Opportunistic Routing for Unicast	2015-16
11	ECSPD11	Dispersing Instant Social Video Service Across Multiple Clouds	2015-16
12	ECSPD12	Burstiness-Aware Resource Reservation for Server Consolidation in Computing Clouds	2015-16
13	ECSPD13	A Framework for Practical Dynamic Software Updating	2015-16
14	ECSPD14	Distributed Slicing in Dynamic Systems	2015-16
15	ECSPD15	In-Place Matrix Transposition on GPUs	2015-16
16	ECSPD16	Correlation-Aware Traffic Consolidation for Power Optimization of Data Center Networks	2015-16
17	ECSPD17	Lock-free and Wait-free Slot Scheduling Algorithms	2015-16
18	ECSPD18	On Traffic-Aware Partition and Aggregation in MapReduce	2015-16

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		for Big Data Applications	
19	ECSPD19	Elastic-RAID: A New Architecture for Improved Availability of Parity-Based RAIDs by Elastic Mirroring	2015-16
20	ECSPD20	Throughput Assurance for Multiple Body Sensor Networks	2015-16
21	ECSPD21	Conditions and Patterns for Achieving Convergence in OT-based Co-Editors	2015-16
22	ECSPD22	A Survey of Architectural Approaches for Data Compression in Cache and Main Memory Systems	2015-16
23	ECSPD23	A Survey of Techniques for Modeling and Improving Reliability of Computing Systems	2015-16
24	ECSPD24	Cost-aware caching: Caching more (costly items) for less (ISPs operational expenditures)	2015-16
25	ECSPD25	Reliability and Energy-Aware Mapping and Scheduling of Multimedia Applications on Multiprocessor Systems	2015-16
26	ECSPD26	Scaling Multi-Core Network Processors Without the Reordering Bottleneck	2015-16
27	ECSPD27	Best-Harmonically-Fit Periodic Task Assignment Algorithm on Multiple Periodic Resources	2015-16
28	ECSPD28	An Evolutionary Technique for Performance-Energy-Temperature Optimized Scheduling of Parallel Tasks on Multi-Core Processors	2015-16
29	ECSPD29	PURE: Blind Regression Modeling for Low Quality Data with Participatory Sensing	2015-16
30	ECSPD30	Content-Aware Concurrent Multipath Transfer for High-Definition Video Streaming over Heterogeneous Wireless Networks	2015-16
31	ECSPD31	An Efficient Privacy-Preserving Ranked Keyword Search	2015-16

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		Method	
32	ECSPD32	A Relative Coordinate Based Distributed Sparse-Preserving Matrix Factorization Approach Towards Self-stabilizing Network Location Service	2015-16
33	ECSPD33	A Practical Large-capacity Three-stage Buffered Clos-network Switch Architecture	2015-16
34	ECSPD34	TIGER- Thermal Aware File Allocation in Storage Clusters	2015-16
35	ECSPD35	Cost Minimization for Rule Caching in Software Defined Networking	2015-16
36	ECSPD36	Intrusion-Tolerant Broadcast and Agreement Abstractions in the Presence of Byzantine Processes	2015-16
37	ECSPD37	Minimizing Inter-server Communications by Exploiting Self-similarity in Online Social Networks	2015-16
38	ECSPD38	Reconsidering Single Disk Failure Recovery for Erasure Coded Storage Systems: Optimizing Load Balancing in Stack-Level	2015-16
39	ECSPD39	Proactive cache placement on cooperative client caches for online social networks and applications	2015-16
40	ECSPD40	A Survey of Software Techniques for Using Non-Volatile Memories for Storage and Main Memory Systems	2015-16
41	ECSPD41	A Lock-free Priority Queue Design Based on Multi-dimensional Linked Lists	2015-16
42	ECSPD42	Mapping streaming applications on commodity multi-CPU and GPU on-chip processors	2015-16
43	ECSPD43	Burstiness-Aware Resource Reservation for Server Consolidation in Computing Clouds	2015-16
44	ECSPD44	Coral: a Cloud-Backed Frugal File System	2015-16

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## SECURE COMPUTING

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1	ECSSEC01	Generating Searchable Public-Key Ciphertexts with Hidden Structures for Fast Keyword Search	2015-16
2	ECSSEC02	A Support Vector Machine-based Framework for Detection of Covert Timing Channels	2015-16
3	ECSSEC03	Measuring the Influence of Perceived Cybercrime Risk on Online Service Avoidance	2015-16
4	ECSSEC04	PPDM: Privacy-preserving Protocol for Dynamic Medical Text Mining and Image Feature Extraction from Secure Data Aggregation in Cloud-assisted e-Healthcare Systems	2015-16
5	ECSSEC05	A Large-scale Active Measurement Study on the Effectiveness of Piece-Attack on BitTorrent Networks	2015-16
6	ECSSEC06	Secure Optimization Computation Outsourcing in Cloud Computing: A Case Study of Linear Programming	2015-16
7	ECSSEC07	Robustness-Driven Resilience Evaluation of Self-Adaptive Software Systems	2015-16
8	ECSSEC08	Privacy-Preserving Public Auditing for Regenerating-Code-Based Cloud Storage	2015-16
9	ECSSEC09	Deleting Secret Data with Public Verifiability	2015-16
10	ECSSEC10	Secure and privacy preserving protocol for cloud-based vehicular DTNs	2015-16
11	ECSSEC11	VoteTrust: Leveraging Friend Invitation Graph to Defend against Social Network Sybils	2015-16
12	ECSSEC12	An Effective Integrity Check Scheme for Secure Erasure Code-Based Storage Systems	2015-16

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13	ECSSEC13	Detection of Unspecified Emergencies for Controlled Information Sharing	2015-16
14	ECSSEC14	Reliability Evaluation of Network Systems with Dependent Propagated Failures using Decision Diagrams	2015-16
15	ECSSEC15	A Proximity Authentication System for Smartphones	2015-16
16	ECSSEC16	Cloning your Gadgets: Complete ROP Attack Immunity with Multi-Variant Execution	2015-16
17	ECSSEC17	ProbeBuilder: Uncovering Opaque Kernel Data Structures for Automatic Probe Construction	2015-16
18	ECSSEC18	Optimization of Full vs. Incremental Periodic Backup Policy	2015-16
19	ECSSEC19	Conditional Identity-based Broadcast Proxy Re-Encryption and Its Application to Cloud Email	2015-16
20	ECSSEC20	Enabling Cloud Storage Auditing With Key-Exposure Resistance	2015-16
21	ECSSEC21	Security Optimization of Dynamic Networks with Probabilistic Graph Modeling and Linear Programming	2015-16
22	ECSSEC22	Private and Secure Tag Access for Large-Scale RFID Systems	2015-16
23	ECSSEC23	Key Indistinguishability vs. Strong Key Indistinguishability for Hierarchical Key Assignment Schemes	2015-16
24	ECSSEC24	Using Virtual Machine Allocation Policies to Defend against Co-resident Attacks in Cloud Computing	2015-16
25	ECSSEC25	Efficient and Privacy-preserving Min and k-th Min Computations in Mobile Sensing Systems	2015-16
26	ECSSEC26	Generic Soft-Error Detection and Correction for Concurrent Data Structures	2015-16
27	ECSSEC27	Safety Decidability for Pre-Authorization Usage Control with Finite Attribute Domains	2015-16

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28	ECSSEC28	An Efficient Lattice Based Multi-stage Secret Sharing Scheme	2015-16
29	ECSSEC29	Trustworthy Parking Communities: Helping Your Neighbor to Find a Space	2015-16
30	ECSSEC30	Universally Composable RFID Mutual Authentication	2015-16
31	ECSSEC31	Identifying High-Cardinality Hosts from Network-wide Traffic Measurements	2015-16
32	ECSSEC32	Rescue Wings: Mobile Computing and Active Services Support for Disaster Rescue	2015-16

## ANDROID

S.NO	CODE	TITLE	YEAR
1	ECSA01	Performance Comparison of EKF-Based Algorithms for Orientation Estimation on Android Platform	2015-16
2	ECSA02	Automatic Detection and Notification of Potholes and Humps on Roads to Aid Drivers	2015-16
3	ECSA03	Profiling Wireless Resource Usage for Mobile Apps via Crowdsourcing-based Network Analytics	2015-16
4	ECSA04	COVERT: Compositional Analysis of Android Inter-App Permission Leakage	2015-16
5	ECSA05	Tap-Wave-Rub: Lightweight Human Interaction Approach to Curb Emerging Smartphone Malware	2015-16
6	ECSA06	Privacy-Preserving Indoor Localization on Smartphones	2015-16
7	ECSA07	Evaluation of Human Activity Recognition and Fall Detection Using Android Phone	2015-16
8	ECSA08	Apprecium: Revealing Data Flows in Android Applications	2015-16
9	ECSA09	An insight into the security issues and their solutions for android phones	2015-16
10	ECSA10	Detecting Display Energy Hotspots in Android Apps	2015-16

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11	ECSA11	Review of the Mobile Malware Detection Approaches	2015-16
12	ECSA12	Automatic Fall Detection Using Mobile Devices	2015-16
13	ECSA13	Malware detection in Android by network traffic analysis	2015-16
14	ECSA14	Detecting and tracing leaked private phone number data in Android smart phones	2015-16
15	ECSA15	Abusing mobile devices for Denial of Service attacks	2015-16
16	ECSA16	Occupancy detection via iBeacon on Android devices for smart building management	2015-16
17	ECSA17	A Lightweight Virtualization Solution for Android Devices	2015-16
18	ECSA18	Implementation and analysis of pluggable Android applications	2015-16
19	ECSA19	Event based application of voting system for mobile device	2015-16
20	ECSA20	Designing of a Mobile Collaboration Application for Student Collaborative Group Work: Evidence from China	2015-16
21	ECSA21	AppTrends: A graph-based mobile app recommendation system using usage history	2015-16
22	ECSA22	A framework for privacy information protection on Android	2015-16
23	ECSA23	An effective access control scheme for preventing permission leak in android	2015-16
24	ECSA24	An event-driven university campus navigation system on android platform	2015-16
25	ECSA25	An automated virtual security testing platform for android mobile apps	2015-16
26	ECSA26	Detecting Display Energy Hotspots in Android Apps	2015-16
27	ECSA27	Android security: A survey of issues, malware penetration and	2015-16

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		defences	
28	ECSA28	On road: A car assistant application	2015-16
29	ECSA29	The impact of API change-and Fault-Proneness on the user ratings of android app	2015-16
30	ECSA30	VulHunter: Toward discovering vulnerabilities in android applications	2015-16

## CLLOUD COMPUTING

S.NO	CODE	TITLE	YEAR
1	ECSCC01	A Framework for Truthful Online Auctions in Cloud Computing with Heterogeneous User Demands	2015-16
2	ECSCC02	A Study of the Performance of a Cloud Datacenter Server	2015-16
3	ECSCC03	A Universal Fairness Evaluation Framework for Resource Allocation in Cloud Computing	2015-16
4	ECSCC04	Accurate CPU Proportional Share and Predictable I/O Responsiveness for Virtual Machine Monitor: A Case Study in Xen	2015-16
5	ECSCC05	Adaptive Cloud Deployment using Persistence Strategies and Application Awareness	2015-16
6	ECSCC06	Attribute-based Access Control with Constant-size Ciphertext in Cloud Computing	2015-16
7	ECSCC07	Delay-Optimized File Retrieval under LT-Based Cloud Storage	2015-16
8	ECSCC08	Demystifying the Clouds: Harnessing Resource Utilization Models for Cost Effective Infrastructure Alternatives	2015-16
9	ECSCC09	FD4C: Automatic Fault Diagnosis Framework for Web Applications in Cloud Computing	2015-16
10	ECSCC10	Off-Peak Energy Optimization for Links in Virtualized Network Environment	2015-16

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11	ECSCC11	Online Resource Scheduling under Concave Pricing for Cloud Computing	2015-16
12	ECSCC12	Performing Initiative Data Prefetching in Distributed File Systems for Cloud Computing	2015-16
13	ECSCC13	Personal Cloud Storage Benchmarks and Comparison	2015-16
14	ECSCC14	Phase-Change Memory Optimization for Green Cloud with Genetic Algorithm	2015-16
15	ECSCC15	CSR: Classified Source Routing in DHT-Based Networks	2015-16
16	ECSCC16	Distributed Online Hybrid Cloud Management for Profit-Driven Multimedia Cloud Computing	2015-16
17	ECSCC17	Tier-Centric Resource Allocation in Multi-Tier Cloud Systems	2015-16
18	ECSCC18	Over Flow: Multi-Site Aware Big Data Management for Scientific Workflows on Clouds	2015-16
19	ECSCC19	Performance and Energy Efficiency Metrics for Communication Systems of Cloud Computing Data Centers	2015-16
20	ECSCC20	Dynamic and Fault-Tolerant Clustering for Scientific Workflows	2015-16
21	ECSCC21	Distributed Online Hybrid Cloud Management for Profit-Driven Multimedia Cloud Computing	2015-16
22	ECSCC22	Performance and Energy Efficiency Metrics for Communication Systems of Cloud Computing Data Centers	2015-16
23	ECSCC23	BDCaM: Big Data for Context-aware Monitoring - A Personalized Knowledge Discovery Framework for Assisted Healthcare	2015-16
24	ECSCC24	Using Virtual Machine Allocation Policies to Defend against Co-resident Attacks in Cloud Computing	2015-16
25	ECSCC25	Semantic Representation of Cloud Patterns and Services with	2015-16

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		Automated Reasoning to support Cloud Application Portability	
26	ECSCC26	Exact and Heuristic Resource Mapping Algorithms for Distributed and Hybrid Clouds	2015-16
27	ECSCC27	Audit-Free Cloud Storage via Deniable Attribute-based Encryption	2015-16
28	ECSCC28	SAE: Toward Efficient Cloud Data Analysis Service for Large-Scale Social Networks	2015-16
29	ECSCC29	Personal Cloud Storage Benchmarks and Comparison	2015-16
30	ECSCC30	Statistical Learning for Anomaly Detection in Cloud Server Systems: A Multi-Order Markov Chain Framework	2015-16
31	ECSCC31	CHARM: A Cost-efficient Multi-cloud Data Hosting Scheme with High Availability	2015-16
32	ECSCC32	Spatio-Temporal Load Balancing for Energy Cost Optimization in Distributed Internet Data Centers	2015-16
33	ECSCC33	Orchestrating Bulk Data Transfers across Geo-Distributed Datacenters	2015-16

## BIG DATA

S.NO	CODE	TITLE	YEAR
1	ECSBD01	Knowledge model for electric power big data based on ontology and semantic web	2015-16
2	ECSBD02	Multilayer Big Data Architecture for Remote Sensing in Eolic Parks	2015-16
3	ECSBD03	Massive MIMO as a Big Data System: Random Matrix Models and Testbed	2015-16
4	ECSBD04	Big data and cloud computing: Pitfalls and advantages in data management	2015-16

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5	ECSBD05	Concurrent Bandwidth Reservation Strategies for Big Data Transfers in High-Performance Networks	2015-16
6	ECSBD06	Big data query optimization by using Locality Sensitive Bloom Filter	2015-16
7	ECSBD07	Online sketching of big categorical data with absent features	2015-16
8	ECSBD08	SODA: Software defined FPGA based accelerators for big data	2015-16
9	ECSBD09	SSMDM: An approach of big data for semantically Master Data Management	2015-16
10	ECSBD10	Subspace Learning and Imputation for Streaming Big Data Matrices and Tensors	2015-16
11	ECSBD11	Online subspace learning and nonlinear classification of Big Data with misses	2015-16
12	ECSBD12	A Scalable Big Data Test Framework	2015-16
13	ECSBD13	Memory fast-forward: A low cost special function unit to enhance energy efficiency in GPU for big data processing	2015-16
14	ECSBD14	Data model for Big Data in cloud environment	2015-16
15	ECSBD15	Handling Big Data Using NoSQL	2015-16
16	ECSBD16	Mobile user verification/identification using statistical mobility profile	2015-16
17	ECSBD17	Distributed scalable RDFS reasoning	2015-16
18	ECSBD18	Rateless code based reliable multicast for data distribution service	2015-16
19	ECSBD19	Promptly pinpointing mobile RFID tags for large-scale Internet-of-Things	2015-16
20	ECSBD20	A graphical administration tool for managing cloud storage	2015-16

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		system	
21	ECSBD21	Selfish replica allocation in a mobile ad hoc network with data update	2015-16
22	ECSBD22	Paraphrase generation based on lexical knowledge and features for a natural language question answering system	2015-16
23	ECSBD23	Big Data service engine (BISE): Integration of Big Data technologies for human centric wellness data	2015-16
24	ECSBD24	Mind your Ps and Vs: A perspective on the challenges of big data management and privacy concerns	2015-16
25	ECSBD25	Distributed real-time knowledge graph serving	2015-16
26	ECSBD26	Big data parallelism: Challenges in different computational paradigms	2015-16
27	ECSBD27	Relationship between class order and parameter approximation in unsupervised learning	2015-16
28	ECSBD28	A combination of temporal and general preferences for app recommendation	2015-16
29	ECSBD29	Detection of POI boundaries through geographical topics	2015-16
30	ECSBD30	Triangle counting in networks using a multi-level branching technique	2015-16
31	ECSBD31	Drawing on millions of biomedical journal publications to do predictive biology	2015-16
32	ECSBD32	Robust network construction against intentional attacks	2015-16
33	ECSBD33	A game theoretic approach for collaborative caching techniques in privacy preserving location-based services	2015-16
34	ECSBD34	Banian: A cross-platform interactive query system for structured big data	2015-16
35	ECSBD35	ePF-DASH: Energy-efficient prefetching based dynamic	2015-16

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		adaptive streaming over HTTP	
36	ECSBD36	Secure sensitive data sharing on a big data platform	2015-16
37	ECSBD37	Sentiment analysis of real-life situations using location, people and time as contextual features	2015-16
38	ECSBD38	An expert search scheme using user activities and reliabilities in social networks	2015-16
39	ECSBD39	Big Data Analysis: Recommendation System with Hadoop Framework	2015-16

## DATA MINING

S.NO	CODE	TITLE	YEAR
1	ECSDM01	Data mining diagnostics and bug MRIs for HW bug localization	2015-16
2	ECSDM02	Dataless Data Mining: Association Rules-Based Distributed Privacy-Preserving Data Mining	2015-16
3	ECSDM03	A Short-Term Wind Power Forecasting Approach With Adjustment of Numerical Weather Prediction Input by Data Mining	2015-16
4	ECSDM04	Using Copulas in Data Mining Based on the Observational Calculus	2015-16
5	ECSDM05	Robust Laser Speckle Authentication System Through Data Mining Techniques	2015-16
6	ECSDM06	A Further Study on Mining DNA Motifs Using Fuzzy Self-Organizing Maps	2015-16
7	ECSDM07	An Internal Intrusion Detection and Protection System by Using Data Mining and Forensic Techniquess	2015-16
8	ECSDM08	I <sup>2</sup> MapReduce: Incremental MapReduce for Mining Evolving Big Data	2015-16
9	ECSDM09	Data-Driven Rule Mining and Representation of Temporal	2015-16

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		Patterns in Physiological Sensor Data	
10	ECSDM10	Differentially Private Frequent Itemset Mining via Transaction Splitting	2015-16
11	ECSDM11	The Impact of Driving Styles on Fuel Consumption: A Data-Warehouse-and-Data-Mining-Based Discovery Process	2015-16
12	ECSDM12	Mining the Situation: Spatiotemporal Traffic Prediction With Big Data	2015-16
13	ECSDM13	Developing a Hybrid Intrusion Detection System Using Data Mining for Power Systems	2015-16
14	ECSDM14	Encrypted Gradient Descent Protocol for Outsourced Data Mining	2015-16
15	ECSDM15	A Study of Path Completion Techniques in Web Usage Mining	2015-16
16	ECSDM16	Financial forecasting by improved fragmentation algorithm of Granular Fragment based mining	2015-16
17	ECSDM17	Creation of an Adaptive Classifier to enhance the classification accuracy of existing classification algorithms in the field of Medical Data Mining	2015-16
18	ECSDM18	Review on privacy preservation method by applying discrimination rules in data mining	2015-16
19	ECSDM19	An Internal Intrusion Detection and Protection System by Using Data Mining and Forensic Techniques	2015-16
20	ECSDM20	Detection of climate zones using multifractal detrended cross-correlation analysis: A spatio-temporal data mining approach	2015-16
21	ECSDM21	Predictive analytics using data mining technique	2015-16
22	ECSDM22	Comparing Data Mining Techniques for Mining Patents	2015-16

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23	ECSDM23	Framework for multi threads execution of data mining algorithms	2015-16
24	ECSDM24	Use of rule base data mining algorithm for intrusion detection	2015-16
25	ECSDM25	Analyzing data mining techniques for wireless sensor network protocols	2015-16
26	ECSDM26	Process Mining for Trust Monitoring	2015-16
27	ECSDM27	Prediction of heart disease using a hybrid technique in data mining classification	2015-16
28	ECSDM28	Encrypted Association Rule Mining for Outsourced Data Mining	2015-16
29	ECSDM29	A model for privacy preserving in data mining using Soft Computing techniques	2015-16
30	ECSDM30	Energy-Aware Migration of Virtual Machines Driven by Predictive Data Mining Models	2015-16
31	ECSDM31	A Survey on Association Rule Mining	2015-16
32	ECSDM32	Data mining application in banking sector with clustering and classification methods	2015-16
33	ECSDM33	Detection of adverse drug events through data mining techniques	2015-16
34	ECSDM34	Clustering techniques in data mining: A comparison	2015-16
35	ECSDM35	Network-Based Modeling and Intelligent Data Mining of Social Media for Improving Care	2015-16
36	ECSDM36	Use of rule base data mining algorithm for intrusion detection	2015-16
37	ECSDM37	Fraud detection in health insurance using data mining techniques	2015-16
38	ECSDM38	Developing a Hybrid Intrusion Detection System Using Data	2015-16

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	Mining for Power Systems	
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## DIGITAL IMAGE PROCESSING

S.NO	CODE	TITLE	YEAR
1	ECSDIP01	A No-Reference Texture Regularity Metric Based on Visual Saliency	2015-16
2	ECSDIP02	A Novel Image Representation via Local Frequency Analysis for Illumination Invariant Stereo Matching	2015-16
3	ECSDIP03	A Source-Channel Coding Approach to Digital Image Protection and Self-Recovery	2015-16
4	ECSDIP04	A Variational Model for PolSAR Data Speckle Reduction Based on the Wishart Distribution	2015-16
5	ECSDIP05	Anisotropic Spectral-Spatial Total Variation Model for Multispectral Remote Sensing Image Destriping	2015-16
6	ECSDIP06	Beyond Perspective Dual Photography With Illumination Masks	2015-16
7	ECSDIP07	BSIFT: Toward Data-Independent Codebook for Large Scale Image Search	2015-16
8	ECSDIP08	Cross-Domain Person Reidentification Using Domain Adaptation Ranking SVMs	2015-16
9	ECSDIP09	Depth Reconstruction From Sparse Samples: Representation, Algorithm, and Sampling	2015-16
10	ECSDIP10	Depth Superresolution by Transduction	2015-16
11	ECSDIP11	DERF: Distinctive Efficient Robust Features from the Biological Modeling of the P Ganglion Cells	2015-16
12	ECSDIP12	Double Nuclear Norm-Based Matrix Decomposition for Occluded Image Recovery and Background Modeling	2015-16
13	ECSDIP13	Estimation of Illuminants from Projections on the Planckian Locus	2015-16
14	ECSDIP14	Extracting 3D Layout from a Single Image Using Global Image Structures	2015-16
15	ECSDIP15	Graph-Based Representation for Multiview Image Geometry	2015-16

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16	ECSDIP16	Head Pose Estimation From a 2D Face Image Using 3D Face Morphing With Depth Parameters	2015-16
17	ECSDIP17	Human Facial Expression Recognition Using Stepwise Linear Discriminant Analysis and Hidden Conditional Random Fields	2015-16
18	ECSDIP18	Integrated Foreground Segmentation and Boundary Matting for Live Videos	2015-16
19	ECSDIP19	Large-Scale Weakly Supervised Object Localization via Latent Category Learning	2015-16
20	ECSDIP20	Learning Compact Feature Descriptor and Adaptive Matching Framework for Face Recognition	2015-16
21	ECSDIP21	Modeling Neuron Selectivity Over Simple Midlevel Features for Image Classification	2015-16
22	ECSDIP22	Neutral Face Classification Using Personalized Appearance Models for Fast and Robust Emotion Detection	2015-16
23	ECSDIP23	No-Reference Image Sharpness Assessment in Autoregressive Parameter Space	2015-16
24	ECSDIP24	Online Space-Variant Background Modeling With Sparse Coding	2015-16
25	ECSDIP25	PM-PM: PatchMatch with Potts Model for Object Segmentation and Stereo Matching	2015-16
26	ECSDIP26	Presentation Attack Detection for Face Recognition Using Light Field Camera	2015-16
27	ECSDIP27	Random Geometric Prior Forest for Multi-Class Object Segmentation	2015-16
28	ECSDIP28	Recursive Approximation of the Bilateral Filter	2015-16
29	ECSDIP29	Robust Face Alignment Under Occlusion via Regional Predictive Power Estimation	2015-16
30	ECSDIP30	Saliency Region Detection Based on Markov Absorption Probabilities	2015-16
31	ECSDIP31	Scene Text Deblurring Using Text-Specific Multiscale Dictionaries	2015-16
32	ECSDIP32	SLED: Semantic Label Embedding Dictionary Representation	2015-16

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		for Multilabel Image Annotation	
33	ECSDIP33	Spatiotemporal Saliency Detection for Video Sequences Based on Random Walk With Restart	2015-16
34	ECSDIP34	Structure-Sensitive Saliency Detection via Multilevel Rank Analysis in Intrinsic Feature Space	2015-16
35	ECSDIP35	Tree Leaves Extraction in Natural Images: Comparative Study of Preprocessing Tools and Segmentation Methods	2015-16
36	ECSDIP36	Undersampled Face Recognition via Robust Auxiliary Dictionary Learning	2015-16
37	ECSDIP37	Vector Sparse Representation of Color Image Using Quaternion Matrix Analysis	2015-16
38	ECSDIP38	An Approach Toward Fast Gradient-Based Image Segmentation	2015-16
39	ECSDIP39	Adaptive Metric Learning for Saliency Detection	2015-16
40	ECSDIP40	Online Temporally Consistent Indoor Depth Video Enhancement via Static Structure	2015-16
41	ECSDIP41	Utilizing Image Scales Towards Totally Training Free Blind Image Quality Assessment	2015-16
42	ECSDIP42	Fractal Analysis for Reduced Reference Image Quality Assessment	2015-16
43	ECSDIP43	Constructing a Non-Negative Low-Rank and Sparse Graph with Data-Adaptive Features	2015-16
44	ECSDIP44	Stacked Multilayer Self-Organizing Map for Background Modeling	2015-16
45	ECSDIP45	Graph-Based Representation for Multiview Image Geometry	2015-16
46	ECSDIP46	Face Sketch Synthesis via Sparse Representation-Based Greedy Search	2015-16
47	ECSDIP47	Multiscale Logarithm Difference Edgemaps for Face Recognition Against Varying Lighting Conditions	2015-16
48	ECSDIP48	Swarm Intelligence for Detecting Interesting Events in	2015-16

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		Crowded Environments	
49	ECSDIP49	Cross-Modal Learning to Rank via Latent Joint Representation	2015-16
50	ECSDIP50	Learning Multiple Linear Mappings for Efficient Single Image Super-Resolution	2015-16

## VLSI

S.NO	CODE	TITLE	YEAR
1	ECSV01	Decoupling Capacitor Topologies for TSV-Based 3-D ICs with Power Gating	2015-16
2	ECSV02	An STM-16 Frame Termination VLSI with 2.5-Gb/s/Pin Input/output Buffers: High-Speed and Low-Power Multi-CMOS/SIMOX Techniques	2015-16
3	ECSV03	A VLSI Circuit Emulation of Chemical Synaptic Transmission Dynamics and Postsynaptic DNA Transcription	2015-16
4	ECSV04	An Efficient VLSI Architecture of a Reconfigurable Pulse-Shaping FIR Interpolation	2015-16
5	ECSV05	Revisiting Central Limit Theorem: Accurate Gaussian Random Number Generation in VLSI	2015-16
6	ECSV06	High-Throughput Power-Efficient VLSI Architecture of Fractional Motion Estimation for Ultra-HD HEVC Video Encoding	2015-16
7	ECSV07	Low-Cost High-Performance VLSI Architecture for Montgomery Modular Multiplication	2015-16
8	ECSV08	Algorithm and Architecture of Configurable Joint Detection and Decoding for MIMO Wireless Communications with Convolutional Codes	2015-16
9	ECSV09	Unipolar Logic Gates Based on Spatial Wave-Function Switched FETs	2015-16
10	ECSV10	A 2.5-Gb/s DLL-Based Burst-Mode Clock and Data	2015-16

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		Recovery Circuit with Oversampling	
11	ECSV11	A High-Performance FIR Filter Architecture for Fixed and Reconfigurable Applications	2015-16
12	ECSV12	Knowledge-Based Neural Network Model for FPGA Logical Architecture Development	2015-16
13	ECSV13	A real time watermarking of grayscale images without altering it's content	2015-16
14	ECSV14	A quadratic approach for routability driven placement design: Initial insight	2015-16
15	ECSV15	Obstacle-Avoiding and Slew-Constrained Clock Tree Synthesis With Efficient Buffer Insertion	2015-16
16	ECSV16	Reverse Converter Design via Parallel-Prefix Adders: Novel Components, Methodology, and Implementations	2015-16
17	ECSV17	Embedded Tutorial ET2: Volume Diagnosis for Yield Improvement	2015-16
18	ECSV18	A 28-nm CMOS 1 V 3.5 GS/s 6-bit DAC With Signal-Independent Delta-I Noise DfT Scheme	2015-16
19	ECSV19	Fully Reused VLSI Architecture of FM0/Manchester Encoding Using SOLS Technique for DSRC Applications	2015-16
20	ECSV20	A Nonlinear Analytical Optimization Method for Standard Cell Placement of VLSI Circuits	2015-16
21	ECSV21	High performance VLSI architecture for 2-D DWT using lifting scheme	2015-16
22	ECSV22	Improvement in error resilience for compressed VLSI test data using Hamming code based technique	2015-16
23	ECSV23	Energy Optimized Subthreshold VLSI Logic Family With	2015-16

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		Unbalanced Pull-Up/Down Network and Inverse Narrow-Width Techniques	
24	ECSV24	VLSI-Assisted Nonrigid Registration Using Modified Demons Algorithm	2015-16
25	ECSV25	Rectilinear Steiner Clock Tree Routing Technique with Buffer Insertion in Presence of Obstacles	2015-16
26	ECSV26	Network-on-Chip for Turbo Decoders	2015-16
27	ECSV27	Low-Area and Low-Power Reconfigurable Architecture for Convolution-Based 1-D DWT Using 9/7 and 5/3 Filters	2015-16
28	ECSV28	A Frame-Parallel 2 Gpixel/s Video Decoder Chip for UHD TV and 3-DTV/FTV Applications	2015-16
29	ECSV29	An FPGA-Based Architecture for Local Similarity Measure for Image/Video Processing Applications	2015-16
30	ECSV30	Low-Energy Two-Stage Algorithm for High Efficacy Epileptic Seizure Detection	2015-16
31	ECSV31	ElastiStore: Flexible Elastic Buffering for Virtual-Channel-Based Networks on Chip	2015-16
32	ECSV32	Defect Diagnosis via Segment Delay Learning	2015-16
33	ECSV33	2SAT Based Infeasibility Resolution during Design Rule Correction on Layouts with Multiple Grids	2015-16
34	ECSV34	A configurable wavelet processor for biomedical applications	2015-16
35	ECSV35	Obstacle-Avoiding and Slew-Constrained Clock Tree Synthesis With Efficient Buffer Insertion	2015-16
36	ECSV36	Reverse Converter Design via Parallel-Prefix Adders: Novel Components, Methodology, and Implementations	2015-16

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37	ECSV37	A 28-nm CMOS 1 V 3.5 GS/s 6-bit DAC With Signal-Independent Delta-I Noise DfT Scheme	2015-16
38	ECSV38	A Method for Improving Power Grid Resilience to Electromigration-Caused via Failures	2015-16
39	ECSV39	BDD-Based Synthesis for All-Optical Mach-Zehnder Interferometer Circuits	2015-16
40	ECSV40	Aging-Aware Reliable Multiplier Design with Adaptive Hold Logic	2015-16
41	ECSV41	Skewed-Load Test Cubes Based on Functional Broadside Tests for a Low-Power Test Set	2015-16
42	ECSV42	Low-Cost Control Flow Protection via Available Redundancies in the Microprocessor Pipeline	2015-16
43	ECSV43	Full-custom all-digital phase locked loop for clock generation	2015-16
44	ECSV44	Robot Navigation Using Neuro-electronic Hybrid Systems	2015-16
45	ECSV45	A 0.3V, 12nW, 47fJ/conv, fully digital capacitive sensor interface in 0.18 $\mu$ m CMOS	2015-16
46	ECSV46	Cryptanalysis of hummingbird algorithm with improved security and throughput	2015-16
47	ECSV47	Low power and high performance MOSFET	2015-16
48	ECSV48	Area and frequency optimized 1024 point Radix-2 FFT processor on FPGA	2015-16
49	ECSV49	Design and analysis of a 2.4 GHz fully integrated 1.8V power amplifier in TSMC 180nm CMOS RF process for wireless communication	2015-16
50	ECSV50	Improving the Linearity and Power Efficiency of Active Switched-Capacitor	2015-16

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51	ECSV51	A 3D hand tracking design for gesture control in complex environments	2015-16
52	ECSV52	A power-aware quad-voltage H.264 encoder chip for wireless panoramic endoscope applications	2015-16

## COMMUNICATION SYSTEM

S.NO	CODE	TITLE	YEAR
1	ECSCS01	A Comparative Performance Analysis of Interweave and Underlay Multi-Antenna Cognitive Radio Networks	2015-16
2	ECSCS02	Contact Graph Routing in DTN Space Networks: Overview, Enhancements and Performance	2015-16
3	ECSCS03	DAWN: Delay-Aware Wi-Fi Offloading and Network Selection	2015-16
4	ECSCS04	Distance Distributions and Proximity Estimation given Knowledge of the Heterogeneous Network Layout	2015-16
5	ECSCS05	Effect of Base Station-Sleeping Ratio on Energy Efficiency in Densely Deployed Femtocell Networks	2015-16
6	ECSCS06	Effect of Mobility on the Outage and BER Performances of Digital Transmissions over Nakagami- <i>m</i> Fading Channels	2015-16
7	ECSCS07	Energy and Delay Constrained Maximum Adaptive Schedule for Wireless Networked Control Systems	2015-16
8	ECSCS08	Energy Harvesting Wireless Communications With Energy Cooperation Between Transmitter and Receiver	2015-16
9	ECSCS09	Energy-Efficient Broadcast in Mobile Networks Subject to Channel Randomness	2015-16
10	ECSCS10	Full-Duplex Wireless-Powered Communication Network with Energy Causality	2015-16
11	ECSCS11	Handoff Rate and Coverage Analysis in Multi-Tier Heterogeneous Networks	2015-16
12	ECSCS12	Hybrid Full-/Half-Duplex System Analysis in Heterogeneous Wireless Networks	2015-16
13	ECSCS13	Industrial-QoS Oriented Remote Wireless Communication	2015-16

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		Protocol for the Internet of Construction Vehicles	
14	ECSCS14	Jamming-Resilient Secure Neighbor Discovery in Mobile Ad Hoc Networks	2015-16
15	ECSCS15	Loop resolution mechanism for Flow-Aware Multi-Topology Adaptive Routing	2015-16
16	ECSCS16	MINTED: Multicast Virtual NeTwork Embedding in Cloud Data Centers With Delay Constraints	2015-16
17	ECSCS17	Multi-Stream Multi-User Coordinated Beamforming for Cellular Networks with Multiple Receive Antennas	2015-16
18	ECSCS18	On Performance Loss of Some CoMP Techniques under Channel Power Imbalance and Limited Feedback	2015-16
19	ECSCS19	Optimal Cooperative Power Allocation for Energy Harvesting Enabled Relay Networks	2015-16
20	ECSCS20	Performance Analysis of Ambient RF Energy Harvesting with Repulsive Point Process Modeling	2015-16
21	ECSCS21	Physical Layer Security over Non-Small Scale Fading Channels	2015-16
22	ECSCS22	Saturation Throughput Analysis of the Slotted BiC-MAC Protocol for Underwater Acoustic Networks	2015-16
23	ECSCS23	Search-Range-Correction Based Doppler-Shift Acquisition for Space Communications	2015-16
24	ECSCS24	Space-Crossing: Community-based Data Forwarding in Mobile Social Networks under The Hybrid Communication Architecture	2015-16
25	ECSCS25	Statistical Analysis of Multi-Antenna Relay Systems and Power Allocation Algorithms in a Relay with Partial Channel State Information	2015-16
26	ECSCS26	On Transmission Capacity Region of D2D Integrated Cellular Networks With Interference Management	2015-16
27	ECSCS27	Energy Detection Technique for Adaptive Spectrum Sensing	2015-16
28	ECSCS28	Distributed Random Access Scheme for Collision Avoidance	2015-16

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		in Cellular Device-to-Device Communication	
29	ECSCS29	Low power sensor design for IoT and mobile healthcare applications	2015-16
30	ECSCS30	HetHetNets: Heterogeneous Traffic Distribution in Heterogeneous Wireless Cellular Networks	2015-16
31	ECSCS31	Image Motion and Pixel Illumination Modeling for Image Sensor Based Visible Light Communication	2015-16
32	ECSCS32	Quasi-Cyclic Representation and Vector Representation of RS-LDPC Codes	2015-16
33	ECSCS33	Recent Advances in Underlay Heterogeneous Networks: Interference Control, Resource Allocation, and Self-Organization	2015-16
34	ECSCS34	The Interplay Between Massive MIMO and Underlaid D2D Networking	2015-16
35	ECSCS35	A transductive scheme based inference techniques for network forensic analysis	2015-16
36	ECSCS36	HTTP-sCAN: Detecting HTTP-flooding attack by modeling multi-features of web browsing behavior from noisy web-logs	2015-16
37	ECSCS37	Finite series representation of Rician shadowed channel with integral fading parameter and the associated exact performance analysis	2015-16
38	ECSCS38	Performance Analysis of FSO Communications with Diversity Methods: Add More Relays or More Apertures?	2015-16
39	ECSCS39	Performance of Mixed RF/FSO with Variable Gain over Generalized Atmospheric Turbulence Channels	2015-16
40	ECSCS40	Efficient Maximum-Likelihood Based Clock and Phase Estimators for OQPSK Signals	2015-16

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41	ECSCS41	Joint Downlink and Uplink Aware Cell Association in HetNets with QoS Provisioning	2015-16
42	ECSCS42	Robust Indoor Positioning with Lifelong Learning	2015-16
43	ECSCS43	On the Diversity of Network-Coded Cooperation with Decode-and-Forward Relay Selection	2015-16
44	ECSCS44	Density Evolution and Functional Threshold for the Noisy Min-Sum Decoder	2015-16
45	ECSCS45	A portable fall detection and alerting system based on k-NN algorithm and remote medicine	2015-16
46	ECSCS46	Mixed RF/FSO Relaying with Outdated Channel State Information	2015-16
47	ECSCS47	Cooperative Non-Orthogonal Multiple Access in 5G Systems	2015-16
48	ECSCS48	Optimal rate allocation based on cross-layer design and end-to-end congestion control in WCDMA networks	2015-16
49	ECSCS49	Secret Information of Wireless Multi-Dimensional Gaussian Channels	2015-16
50	ECSCS50	On the Capacity of Narrowband PLC Channels	2015-16

## EMBEDDED SYSTEM

S.NO	CODE	TITLE	YEAR
1	ECSES01	Compact Personal Distributed Wearable Exosimeter	2015-16
2	ECSES02	Automatic wedge tightness classifying system by support vector machine	2015-16
3	ECSES03	A drowsiness detection method using distance and gradient vectors	2015-16
4	ECSES04	Development of in-pipe material transporter robot	2015-16

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5	ECSES05	Design of an automotive safety system using Controller Area Network	2015-16
6	ECSES06	Frequency control of autonomous hybrid power system using smart controllable load	2015-16
7	ECSES07	Design and development of underwater robot	2015-16
8	ECSES08	Artificial intelligence in boiler control	2015-16
9	ECSES09	Design and analysis of multipurpose mobile manipulator for defense application and study the dynamic effects on stability of an unmanned tracked vehicle	2015-16
10	ECSES10	Embedded system design for I&C of Prototype Fast Breeder Reactor	2015-16
11	ECSES11	Recent Advances in Wearable Sensors for Health Monitoring	2015-16
12	ECSES12	An Approach of Reliable Data Transmission With Random Redundancy for Wireless Sensors in Structural Health Monitoring	2015-16
13	ECSES13	Wearable Sensors for Human Activity Monitoring: A Review	2015-16
14	ECSES14	Design and Calibration of the Unilateral Sensitive Soil Moisture Sensor	2015-16
15	ECSES15	A High Reliability Wearable Device for Elderly Fall Detection	2015-16
16	ECSES16	A Smart Sensor Network for Sea Water Quality Monitoring	2015-16
17	ECSES17	Passive and Semi-Passive Wireless Temperature and Humidity Sensors Based on EPC Generation-2 UHF Protocol	2015-16
18	ECSES18	Design and Experimental Validation of Novel Force Sensor	2015-16
19	ECSES19	A low power temperature to frequency converter for the on-chip temperature measurement	2015-16
20	ECSES20	A Cooperative Train Control Model for Energy Saving	2015-16
21	ECSES21	Design of a Mobile Charging Service for Electric Vehicles in an Urban Environment	2015-16

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22	ECSES22	A Practical Wireless Attack on the Connected Car and Security Protocol for In-Vehicle CAN	2015-16
23	ECSES23	A model-based testing technique for component-based real-time embedded systems	2015-16
24	ECSES24	A survey of language-based approaches to Cyber-Physical and embedded system development	2015-16
25	ECSES25	Memory-efficient buffering method and enhanced reference template for embedded automatic speech recognition system	2015-16
26	ECSES26	A Prototype Integrated Monitoring System for Pavement and Traffic Based on an Embedded Sensing Network	2015-16
27	ECSES27	Real-time pedestrian detection technique for embedded driver assistance systems	2015-16
28	ECSES28	A Hardware Platform for Evaluating Low-Energy Multiprocessor Embedded Systems Based on COTS Devices	2015-16
29	ECSES29	Modeling Dependability Features for Real-Time Embedded Systems	2015-16
30	ECSES30	Embedded web server for real-time remote control and monitoring of an FPGA-based on-board computer system	2015-16
31	ECSES31	Model-Driven Design of Network Aspects of Distributed Embedded Systems	2015-16
32	ECSES32	An embedded monitoring unit for a lead-acid battery with reference to a PV system	2015-16

## REAL TIME INTERFACING PROJECTS

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSRT01	A review: Control area network (CAN) based Intelligent vehicle system for driver assistance using advanced RISC	2015-16

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		machines (ARM)	
2	ECSRT02	Accident detection for release airbag using GSM, GPS&MEMS using arm7.	2015-16
3	ECSRT03	Accident detection for release airbag using GSM	2015-16
4	ECSRT04	Advanced smart card based digital energy meter using ATMEL microcontroller	2015-16
5	ECSRT05	An embedded system and RFID solution for transport related issues	2015-16
6	ECSRT06	An intelligent mobile robot navigation technique using RF technology	2015-16
7	ECSRT07	Application of radio frequency controlled intelligent military robot in defense	2015-16
8	ECSRT08	Atmel based automatic traffic signal controlling system	2015-16
9	ECSRT09	Atmel based home security system (IR, LPG, Fire, Magnet Sensor)	2015-16
10	ECSRT10	Authentication and access control system for security personnel using I-button	2015-16
11	ECSRT11	Authorized home appliances control with one wire protocol based I-button	2015-16
12	ECSRT12	Automatic room light controller with visitor counter using ATMEL controller	2015-16
13	ECSRT13	Biomedical signals monitoring based in mobile computing	2015-16
14	ECSRT14	Can protocol implementation for industrial process control	2015-16
15	ECSRT15	Coin based mobile phone charger for multiple phones	2015-16
16	ECSRT16	Density based intelligent traffic light controller using ATMEL controller	2015-16
17	ECSRT17	Design and implementation of pyro-electric infrared sensor based security system	2015-16
18	ECSRT18	Design of auto-guard system based on RFID and network	2015-16

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19	ECSRT19	Design of monitoring system for coal mine safety based on wireless sensor network	2015-16
20	ECSRT20	Development of a smart power meter for AMI based on GSM communication.	2015-16
21	ECSRT21	Development of gas leak detection and location system based on wireless technology	2015-16
22	ECSRT22	Electronic medical record for effective patient monitoring database	2015-16
23	ECSRT23	Electronic voting machine using ATMEL microcontroller	2015-16
24	ECSRT24	Examination room guide using RFID for the jumbling system based exams	2015-16
25	ECSRT25	Finger print based ATM and locker system for modern secured banks	2015-16
26	ECSRT26	Finger print based money management system for ATM backend operations	2015-16
27	ECSRT27	GPS-GSM integration enhancing public transportation management services	2015-16
28	ECSRT28	Greenhouse monitoring and controlling system using ATMEL controller	2015-16
29	ECSRT29	GSM based pre-paid energy meter based on ATMEL microcontroller	2015-16
30	ECSRT30	GSM based wireless home appliances monitoring & control system.	2015-16
31	ECSRT31	Human recognition using RFID technology and stereo vision	2015-16
32	ECSRT32	Innovative congestion control system for ambulance using x	2015-16
33	ECSRT33	Intelligent fleet management system with concurrent GPS	2015-16
34	ECSRT34	Intelligent solar tracking system using ATMEL controller	2015-16
35	ECSRT35	Intelligent spy robot using ZIGBEE	2015-16

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36	ECSRT36	Intelligent train tracking system	2015-16
37	ECSRT37	Metal detection robot control using ZIGBEE wireless technology	2015-16
38	ECSRT38	Microcontroller based finger print access developed voting machine	2015-16
39	ECSRT39	Mobile controlled electrical device using ATMEL controller	2015-16
40	ECSRT40	Mobile controlled robot or cell phone operated land rover robot.	2015-16
41	ECSRT41	Mobile controlled robot with camera or remote surveillance vehicle (robot with camera)	2015-16
42	ECSRT42	Mobile controlled robot with feedback sensors	2015-16
43	ECSRT43	Monitoring and alarming system based on ZIGBEE technology	2015-16
44	ECSRT44	Multi-robots communication system based on multi node wireless ZIGBEE network	2015-16
45	ECSRT45	NFC based smart surveillance system with corruption avoidance.	2015-16
46	ECSRT46	Paperless e-cash management system by using an i-button technology	2015-16
47	ECSRT47	Password based door locking system using ATMEL controller	2015-16
48	ECSRT48	Pc controlled pick and place robot	2015-16
49	ECSRT49	Pc controlled spy robot using wireless webcam	2015-16
50	ECSRT50	Remote home security system based on WSN and GSM technology	2015-16
51	ECSRT51	Remote notice board implementation using GSM communication	2015-16
52	ECSRT52	Remote weather monitoring station design using ZIGBEE	2015-16
53	ECSRT53	RFID based automatic bus ticketing system	2015-16

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54	ECSRT54	RFID based remote parent care (RFID & GSM)	2015-16
55	ECSRT55	RFID based student no dues status checking and paying system and displaying	2015-16
56	ECSRT56	Robot motion authoring using finger-robot interaction	2015-16
57	ECSRT57	Robust and efficient password-authenticated key agreement using smart cards for campus management	2015-16
58	ECSRT58	Safety of valuable items using ZIGBEE and MEMS sensor	2015-16
59	ECSRT59	Secured wireless communication for industrial automation and control	2015-16
60	ECSRT60	Smart card based access control and bank control system	2015-16
61	ECSRT61	Smart wireless temperature data logger using ZIGBEE 802.15.4	2015-16
62	ECSRT62	Solar highway lighting system with auto turn off on day time with LCD display	2015-16
63	ECSRT63	Student college alert system to parents by their entry at the college premises by using I-button & GSM	2015-16
64	ECSRT64	The application of wireless sensor network design based on ZIGBEE in petrochemical industry field	2015-16
65	ECSRT65	Touch panel based advanced home automation system for next generation apartments using ZIGBEE	2015-16
66	ECSRT66	Touch panel based industrial device management system for handicapped persons	2015-16
67	ECSRT67	Touch panel based modern restaurants atomization using ZIGBEE technology	2015-16
68	ECSRT68	Touch panel based wheel chair for handicapped person	2015-16
69	ECSRT69	Touch panel based wireless data communication using ZIGBEE technology	2015-16
70	ECSRT70	Touch panel controlled motor speed and direction control system	2015-16
71	ECSRT71	Two-way wireless data messaging system for rural areas using	2015-16

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		ZIGBEE technology	
72	ECSRT72	Two-way wireless data messaging system	2015-16
73	ECSRT73	Vision-based automated parking system	2015-16
74	ECSRT74	Voice controlled & activated wheel chair robot for physically challenged	2015-16
75	ECSRT75	ZIGBEE based attendance alert system with person details by using i-button technology	2015-16
76	ECSRT76	ZIGBEE based intelligent helmet for coal miners	2015-16
77	ECSRT77	Analysis of Distance-Based Location Management in Wireless Communication Networks	2015-16
78	ECSRT78	Online Monitoring of Geological CO <sub>2</sub> Storage and Leakage Based on Wireless Sensor Networks	2015-16
79	ECSRT79	Intelligent Household LED Lighting System Considering Energy Efficiency and User Satisfaction	2015-16
80	ECSRT80	Tracking Human Motion with Multi-channel Interacting Multiple Model.	2015-16
81	ECSRT81	An Electronic Voting System with Haptic Touchscreen Interface and selecting none of the candidate option	2015-16
82	ECSRT82	Design and Implementation of Remotely Controlled Vehicle Anti-Theft System via GSM Network	2015-16
83	ECSRT83	Environment monitoring and device control using ARM based Embedded Controlled Sensor Network	2015-16
84	ECSRT84	Accessible Display Design to Control Home Area Networks	2015-16
85	ECSRT85	Web Server Based Wireless Coal Mine Monitoring System	2015-16
86	ECSRT86	The Embedded Web server based Electrical Ethernet Monitoring system using ARM	2015-16
87	ECSRT87	The Design of Coal Mine Security Monitoring System Based on ZigBee	2015-16
88	ECSRT88	Autonomous Self Parking and Self Retrieving Vehicle With GPS Less Keyfob for Vehicle Tracking	2015-16
89	ECSRT89	Virtual Security Zones for Student Tracking and Elderly Fall	2015-16

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		Alert Based on GPS Watch and Skin Pressure Sensitive Lock	
90	ECSRT90	Gravity Lock: Next Generation Auto Theft Prevention System	2015-16

## ROBOTICS PROJECTS

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSRP01	A Model and Simulation of a Five-Degree-of- Freedom Robotic Arm for Mechatronic course	2015-16
2	ECSRP02	An Ultrasonic Fuel Identification System for Liquid Metal Cooled Reactors Resilient Against Multiple Transducer Failures	2015-16
3	ECSRP03	Analysis of Human Grasping Behavior: Object Characteristics and Grasp Type	2015-16
4	ECSRP04	Design and Open-Loop Control of the ParkourBot, a Dynamic Climbing Robot	2015-16
5	ECSRP05	Optimal Path Following for Differentially Flat Robotic Systems Through a Geometric Problem Formulation	2015-16
6	ECSRP06	ReAct!: An Interactive Educational Tool for AI Planning for Robotics	2015-16
7	ECSRP07	Smart Grid Agent: Plug-in Electric Vehicle	2015-16
8	ECSRP08	Rotating Switching Surface Control of Series Resonant Converter Based on Piecewise Affine Model	2015-16
9	ECSRP09	Sensor less Illumination Control of a Networked LED-Lighting System Using Feed forward Neural Network	2015-16
10	ECSRP10	Phase Grid-Connected Photovoltaic Inverters	2015-16
11	ECSRP11	Square-Signal-Based Algorithm for Analog Lock-In Amplifiers	2015-16
12	ECSRP12	Tactical Driving Behavior With Different Levels of Automation	2015-16
13	ECSRP13	Task Versus Vehicle-Based Control Paradigms in Multiple Unmanned Vehicle Supervision by a Single Operator	2015-16
14	ECSRP14	GSM controlled robotics	2015-16
15	ECSRP15	Voice Recognition Robotic Dog Guides For Visually Impaired People	2015-16

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16	ECSRP16	Voice Recognition Robot for Visually Impaired People	2015-16
17	ECSRP17	Autonomous Building Map Exploration Robot for First-Responder and Military Operations	2015-16
18	ECSRP18	Alive Human Body Detection system using a Autonomous Mobile Rescue Robot	2015-16
19	ECSRP19	Haptic Robotic Arm Using Voice & Gesture Recognition	2015-16

## POWER ELECTRONICS

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSPE01	A Bidirectional Three-level LLC Resonant Converter with PWAM Control	2015-16
2	ECSPE02	A Control Strategy for Suppressing Circulating Currents in Parallel Connected PMSM Drives with Individual DC-links	2015-16
3	ECSPE03	A Maximum Power Density Design Method for Nine Switches Matrix Converter using SiC-MOSFET	2015-16
4	ECSPE04	A Nano-Power Synchronous Charge Extractor IC for Low Voltage Piezoelectric Energy Harvesting with Residual Charge Inversion	2015-16
5	ECSPE05	A New Multi-Input Three-Level DC/DC Converter	2015-16
6	ECSPE06	A Novel Quasi-Z-Source Inverter Topology With Special Coupled Inductors For Input Current Ripples Cancellation	2015-16
7	ECSPE07	A Real-Time Selective Harmonic Elimination Based on A Transient-free, Inner Closed-Loop Control for Cascaded Multilevel Power Inverters	2015-16
8	ECSPE08	A Simplified Space Vector Modulation Scheme for Multilevel Converters	2015-16
9	ECSPE09	A Single Sensor based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid	2015-16
10	ECSPE10	A Single-phase PV Quasi-Z-source Inverter with	2015-16

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		Reduced Capacitance using Modified Modulation and Double-Frequency Ripple Suppression Control	
11	ECSPE11	A Systematic Approach to Modeling Impedances and Current Distribution in Planar Magnetics	2015-16
12	ECSPE12	An Efficient Implementation of Generalized Delayed Signal Cancellation PLL	2015-16
13	ECSPE13	An Inductive Power Transfer System with a High-Q Resonant Tank for Mobile Device Charging	2015-16
14	ECSPE14	Analysis and Design of Single-Switch Forward-Flyback Two-Channel LED Driver with Resonant-Blocking Capacitor	2015-16
15	ECSPE15	Comparative Evaluation of Direct Torque Control Strategies for Permanent Magnet Synchronous Machines	2015-16
16	ECSPE16	Control and Experiment of an H-Bridge Based Three-Phase Three-Stage Modular Power Electronic Transformer	2015-16
17	ECSPE17	Control of Single-Phase Power Converters Connected to Low Voltage Distorted Power Systems with Variable Compensation Objectives	2015-16
18	ECSPE18	Decoupled Power Angle and Voltage Control of Electric Springs	2015-16
19	ECSPE19	Design of Class E Resonant Rectifiers and Diode Evaluation for VHF Power Conversion	2015-16
20	ECSPE20	Doubly Fed Induction Generator Wind Turbine Systems Subject to Recurring Symmetrical Grid Faults	2015-16
21	ECSPE21	Dual Active Bridge-Based Battery Charger for Plug-in Hybrid Electric Vehicle with Charging Current Containing Low Frequency Ripple	2015-16
22	ECSPE22	Dynamic Loss Minimization of Finite Control Set-Model Predictive Torque Control for Electric Drive System	2015-16
23	ECSPE23	Dynamic Voltage Balancing Algorithm for Modular Multilevel Converter: A Unique Solution	2015-16
24	ECSPE24	Economic Analysis of the Dynamic Charging Electric Vehicle	2015-16

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25	ECSPE25	Field-oriented Control and Direct Torque Control for Paralleled VSIs Fed PMSM Drives With Variable Switching Frequencies	2015-16
26	ECSPE26	Fast and Reliable Estimation of Composite Load Model Parameters Using Analytical Similarity of Parameter Sensitivity	2015-16
27	ECSPE27	Grid-Current-Feedback Active Damping for LCL Resonance in Grid-Connected Voltage Source Converters	2015-16
28	ECSPE28	Grouping-Sorting-Optimized Model Predictive Control for Modular Multilevel Converter with Reduced Computational Load	2015-16
29	ECSPE29	High Switching Performance of 1700V, 50A SiC Power MOSFET over Si IGBT/BiMOSFET for Advanced Power Conversion Applications	2015-16
30	ECSPE30	High-Frequency-Link Based Grid-tied PV System with Small DC-link Capacitor and Low-frequency Ripple-free Maximum Power Point Tracking	2015-16
31	ECSPE31	High-Order Resonant Converter Topology with Extremely Low-Coupling Contactless Transformers	2015-16
32	ECSPE32	Hybrid Modulation Scheme for High Frequency Ac Link Inverter	2015-16
33	ECSPE33	Impedance-Based Analysis of Grid-Synchronization Stability for Three-Phase Paralleled Converters	2015-16
34	ECSPE34	Interleaved Dual Buck Full-Bridge Three-Level Inverter	2015-16
35	ECSPE35	Modeling and Control of a Multiport Power Electronic Transformer (PET) for Electric Traction Applications	2015-16
36	ECSPE36	Multiple Inputs and Multiple Outputs Wireless Power Combining and Delivering Systems	2015-16
37	ECSPE37	New Three Dimensional Space Vector based Switching Signal Generation Technique without Null Vectors and with Reduced Switching Losses for a Grid-Connected Four-leg Inverter	2015-16
38	ECSPE38	Reconfigurable Magnetic Resonance Coupled Wireless Power Transfer System	2015-16

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39	ECSPE39	Reliability Assessment of Switched Reluctance Motor Drive under Single Switch Chopping Strategy	2015-16
40	ECSPE40	Sequence-Based Control of an Isolated Dc/Ac Matrix Converter	2015-16
41	ECSPE41	Splitting Frequency Diversity in Wireless Power Transmission	2015-16
42	ECSPE42	Theoretical Comparison in Energy-Balancing Capability Between Star- and Delta-Configured Modular Multilevel Cascade Inverters for Utility-Scale Photovoltaic Systems	2015-16
43	ECSPE43	Three-Port DC/DC Converter with All Ports Current Ripple Cancellation Using Integrated Magnetic Technique	2015-16
44	ECSPE44	Thermal Analysis of the Laminated Busbar System of a Multilevel Converter	2015-16
45	ECSPE45	Transformer based equalisation circuit applied to n-number of high capacitance cells	2015-16
46	ECSPE46	Two-stage Matrix Converter based on Third-harmonic Injection Technique	2015-16
47	ECSPE47	Unified Equivalent Circuit Model and Optimal Design of V2 Controlled Buck Converters	2015-16
48	ECSPE48	A New Hybrid Boosting Converter (HBC) for Renewable Energy Applications	2015-16
49	ECSPE49	A Rule-based Controller to Mitigate DC-Side 2nd-Order Harmonic Current in a Single-Phase Boost Inverter	2015-16
50	ECSPE50	An EV Drive-Train with Integrated Fast Charging Capability	2015-16

## POWER SYSTEM

S. NO	CODE	PROJECT TITLE	YEAR
1	ECSPS01	A Droop Control Design for Multi terminal HVDC of Offshore Wind Farms With Three-Wire Bipolar Transmission Lines	2015-16

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2	ECSPS02	A Fundamental Study of Applying Wind Turbines for Power System Frequency Control	2015-16
3	ECSPS03	A Game Theoretical Pricing Mechanism for Multi-Area Spinning Reserve Trading Considering Wind Power Uncertainty	2015-16
4	ECSPS04	A Fuzzy Logic Controlled Bridge Type Fault Current Limiter for Transient Stability Augmentation of Multi-Machine Power System	2015-16
5	ECSPS05	A Method for Ranking Critical Nodes in Power Networks Including Load Uncertainties	2015-16
6	ECSPS06	A Multi-Objective Distribution System Expansion Planning Incorporating Customer Choices on Reliability	2015-16
7	ECSPS07	A New Mathematical Model for the Restoration Problem in Balanced Radial Distribution Systems	2015-16
8	ECSPS08	A Non-Stationary Analysis of Low-Frequency Electromechanical Oscillations Based on a Refined Margenau-Hill Distribution	2015-16
9	ECSPS09	Accelerate Population-Based Stochastic Search Algorithms With Memory for Optima Tracking on Dynamic Power Systems	2015-16
10	ECSPS10	AC-Feasibility on Tree Networks is NP-Hard	2015-16
11	ECSPS11	Adaptive Online Disturbance Location Considering Anisotropy of Frequency Propagation Speeds	2015-16
12	ECSPS12	An Exact Method for Computing Delay Margin for Stability of Load Frequency Control Systems With Constant Communication Delays	2015-16
13	ECSPS13	An Improved Corrective Security Constrained OPF With Distributed Energy Storage	2015-16
14	ECSPS14	Application of Recurrence Quantification Analysis to Power System Dynamic Studies	2015-16
15	ECSPS15	BFS Algorithm for Voltage-Constrained Meshed DC Traction Networks With Non smooth Voltage-Dependent Loads and Generators	2015-16

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16	ECSPS16	Comprehensive Cost Minimization in Distribution Networks Using Segmented-Time Feeder Reconfiguration and Reactive Power Control of Distributed Generators	2015-16
17	ECSPS17	Comprehensive Value Assessment of Wind Power by Layer	2015-16
18	ECSPS18	Coordinated Price-Maker Operation of Large Energy Storage Units in Nodal Energy Markets	2015-16
19	ECSPS19	Coordination of Distributed Energy Resources and Demand Response for Voltage and Frequency Support of MV Microgrids	2015-16
20	ECSPS20	Demand Response Application by Strategic Wind Power Producers	2015-16
21	ECSPS21	Determining the Optimal Reserve Capacity in a Microgrid With Islanded Operation	2015-16
22	ECSPS22	Dimension-Adaptive Sparse Grid Interpolation for Uncertainty Quantification in Modern Power Systems: Probabilistic Power Flow	2015-16
23	ECSPS23	Efficient Estimation of the Probability of Small-Disturbance Instability of Large Uncertain Power Systems	2015-16
24	ECSPS24	Energy Exchange Between Electric Vehicle Load and Wind Generating Utilities	2015-16
25	ECSPS25	Evolutionary Algorithms for Dynamic Economic Dispatch Problems	2015-16
26	ECSPS26	Excitation Voltage Control for Emergency Frequency Regulation of Island Power Systems With Voltage-Dependent Loads	2015-16
27	ECSPS27	FACTS Devices Allocation via Sparse Optimization	2015-16
28	ECSPS28	Fast and Reliable Estimation of Composite Load Model Parameters Using Analytical Similarity of Parameter Sensitivity	2015-16
29	ECSPS29	Feeder Reconfiguration for Unbalanced Distribution Systems With Distributed Generation: A Hierarchical Decentralized Approach	2015-16

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30	ECSPS30	Frequency and Voltage Control Strategy of Standalone Microgrids With High Penetration of Intermittent Renewable Generation Systems	2015-16
31	ECSPS31	Fuzzy-Logic Based Frequency Controller for Wind Farms Augmented With Energy Storage Systems	2015-16
32	ECSPS32	Identifying Useful Statistical Indicators of Proximity to Instability in Stochastic Power Systems	2015-16
33	ECSPS33	Inexactness of SDP Relaxation and Valid Inequalities for Optimal Power Flow	2015-16
34	ECSPS34	Load-Damping Characteristic Control Method in an Isolated Power System With Industrial Voltage-Sensitive Load	2015-16
35	ECSPS35	Lyapunov Functions Family Approach to Transient Stability Assessment	2015-16
36	ECSPS36	Managing Flexibility in Multi-Area Power Systems	2015-16
37	ECSPS37	Missing Data Recovery by Exploiting Low-Dimensionality in Power System Synchrophasor Measurements	2015-16
38	ECSPS38	Mixed Transient Stability Analysis Using AC and DC Models	2015-16
39	ECSPS39	Multi-Objective Reconfiguration of Radial Distribution Systems Using Reliability Indices	2015-16
40	ECSPS40	Network-Constrained AC Unit Commitment Under Uncertainty: A Benders' Decomposition Approach	2015-16
41	ECSPS41	Offering Strategy of Wind-Power Producer: A Multi-Stage Risk-Constrained Approach	2015-16
42	ECSPS42	Optimal Compensation of Transmission Lines Based on Minimisation of the Risk of Subsynchronous Resonance	2015-16
43	ECSPS43	Optimal Storage Planning in Active Distribution Network Considering Uncertainty of Wind Power Distributed Generation	2015-16
44	ECSPS44	Oscillation Energy Analysis of Inter-Area Low-Frequency Oscillations in Power Systems	2015-16
45	ECSPS45	Preventive Control Design for Voltage Stability Considering Multiple Critical Contingencies	2015-16

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46	ECSPS46	Residential Demand Response: Dynamic Energy Management and Time-Varying Electricity Pricing	2015-16
47	ECSPS47	Tight and Compact MIP Formulation of Configuration-Based Combined-Cycle Units	2015-16
48	ECSPS48	Stability Analysis of Electricity Markets Using TSK Fuzzy Modeling	2015-16
49	ECSPS49	An Integrated Reconfigurable Converter Topology for High Voltage Battery Systems	2015-16
50	ECSPS50	Empirical Analysis of the Merit-Order Effect and the Missing Money Problem in Power Markets With High RES Shares	2015-16

## SIGNAL PROCESSING

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSSP01	Notice of Violation of IEEE Publication Principles Image Guided Depth Map Upsampling using Anisotropic TV- $L^2$	2015-16
2	ECSSP02	Joint Discrete Rate Adaptation and Downlink Beamforming Using Mixed Integer Conic Programming	2015-16
3	ECSSP03	Diffusion LMS Over Multitask Networks	2015-16
4	ECSSP04	Asymptotically Efficient Estimation of a Nonlinear Model of the Heteroscedasticity and the Calibration of Measurement Systems	2015-16
5	ECSSP05	Linear Convergence of Adaptively Iterative Thresholding Algorithms for Compressed Sensing	2015-16
6	ECSSP06	Rooting our Rumor Sources in Online Social Networks: The Value of Diversity From Multiple Observations	2015-16
7	ECSSP07	Ziv-Zakai Bound for Joint Parameter Estimation in MIMO Radar Systems	2015-16
8	ECSSP08	Designing Statistical Estimators That Balance Sample Size, Risk, and Computational Cost	2015-16

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9	ECSSP09	MIMO-OTH Radar: Signal Model for Arbitrary Placement and Signals With Non-Point Targets	2015-16
10	ECSSP10	A MRF Model-Based Active Learning Framework for the Spectral-Spatial Classification of Hyperspectral Imagery	2015-16
11	ECSSP11	Shallow Water Acoustic Channel Modeling Based on Analytical Second Order Statistics for Moving Transmitter/Receiver	2015-16
12	ECSSP12	New Integer Normalized Carrier Frequency Offset Estimators	2015-16
13	ECSSP13	Social Learning With Bayesian Agents and Random Decision Making	2015-16
14	ECSSP14	Generalized Iterated Kalman Filter and its Performance Evaluation	2015-16
15	ECSSP15	Optimizing Multiview Video Plus Depth Prediction Structures for Interactive Multiview Video Streaming	2015-16
16	ECSSP16	A Novel Low-Complexity Precoded OFDM System With Reduced PAPR	2015-16
17	ECSSP17	Clutter Subspace Estimation in Low Rank Heterogeneous Noise Context	2015-16
18	ECSSP18	A Generalized Spatial Correlation Model for 3D MIMO Channels Based on the Fourier Coefficients of Power Spectrums	2015-16
19	ECSSP19	Distributed canonical correlation analysis in wireless sensor networks with application to distributed blind source separation	2015-16
20	ECSSP20	Scalable Multiband Binaural Renderer for MPEG-H 3D Audio	2015-16
21	ECSSP21	Maximum Likelihood Estimation Based Robust Chinese Remainder Theorem for Real Numbers and Its Fast Algorithm	2015-16

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22	ECSSP22	Subspace Leakage Analysis and Improved DOA Estimation With Small Sample Size	2015-16
23	ECSSP23	Super-Resolution on the Sphere Using Convex Optimization	2015-16
24	ECSSP24	Low-Complexity Multiclass Encryption by Compressed Sensing	2015-16
25	ECSSP25	Distributed Inference in Tree Networks Using Coding Theory	2015-16
26	ECSSP26	Maximum Entropy PDF Design Using Feature Density Constraints: Applications in Signal Processing	2015-16
27	ECSSP27	Asymptotically Optimal Discrete-Time Nonlinear Filters From Stochastically Convergent State Process Approximations	2015-16
28	ECSSP28	Compressive Periodogram Reconstruction Using Uniform Binning	2015-16
29	ECSSP29	Model Order Selection Based on Information Theoretic Criteria: Design of the Penalty	2015-16
30	ECSSP30	Identification of Linear Time-Varying Systems through Waveform Diversity	2015-16
31	ECSSP31	A Novel Low-Complexity Numerical Localization Method for Dynamic Wireless Sensor Networks	2015-16
32	ECSSP32	Tight Probabilistic SINR Constrained Beamforming Under Channel Uncertainties	2015-16
33	ECSSP33	Relative Entropy-based Waveform Design for MIMO Radar Detection in the Presence of Clutter and Interference	2015-16
34	ECSSP34	Alternating Optimization of Sensing Matrix and Sparsifying Dictionary for Compressed Sensing	2015-16
35	ECSSP35	Distributed Parameter Estimation with Quantized	2015-16

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		Communication via Running Average	
36	ECSSP36	Distributed Secret Dissemination Across a Network	2015-16
37	ECSSP37	Achieving Antenna and Multipath Diversities in GLRT-Based Burst Packet Detection	2015-16
38	ECSSP38	Source Enumeration in Array Processing Using a Two-Step Test	2015-16
39	ECSSP39	A Novel Statistical Model for Distributed Estimation in Wireless Sensor Networks	2015-16
40	ECSSP40	Greedy Sparsity-Promoting Algorithms for Distributed Learning	2015-16
41	ECSSP41	Structured Saliency Fusion Based on Dempster–Shafer Theory	2015-16
42	ECSSP42	Unified Codebook Design for Vector Channel Quantization in MIMO Broadcast Channels	2015-16
43	ECSSP43	A New Model for Array Spatial Signature for Two-Layer Imaging With Applications to Nondestructive Testing Using Ultrasonic Arrays	2015-16
44	ECSSP44	Approximation errors of online sparsification criteria	2015-16
45	ECSSP45	Distributed Online Learning via Cooperative Contextual Bandits	2015-16
46	ECSSP46	Sub-Pixel Mapping Based on Conditional Random Fields for Hyperspectral Remote Sensing Imagery	2015-16
47	ECSSP47	Near Optimal Compressed Sensing Without Priors: Parametric SURE Approximate Message Passing	2015-16
48	ECSSP48	A Parallel Low Complexity Zero-Forcing Beamformer Design for Multiuser MIMO Systems via a Regularized Dual Decomposition Method	2015-16

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49	ECSSP49	Deterministic Sensor Selection for Centralized State Estimation Under Limited Communication Resource	2015-16
50	ECSSP50	Design and Analysis of Invariant Receivers for Gaussian Targets Under Covariance Persymmetry	2015-16

## RENEWABLE ENERGY

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSRE01	Multi-agent approach analysis for a hybrid electric system based on renewable energy source	2015-16
2	ECSRE02	Wind speed numerical simulation calculations for novel wind tunnel	2015-16
3	ECSRE03	Renewable energy sources for complete optimal power system black-start restoration	2015-16
4	ECSRE04	Adaptive transmission control for communication systems with unstable renewable energy sources	2015-16
5	ECSRE05	Efficiently Operating Wireless Nodes Powered by Renewable Energy Sources	2015-16
6	ECSRE06	A Generation Adjustment Methodology Considering Fluctuations of Loads and Renewable Energy Sources	2015-16
7	ECSRE07	Demand Response Exchange in the Stochastic Day-Ahead Scheduling With Variable Renewable Generation	2015-16
8	ECSRE08	Renewable Energies in Medium-Term Power Planning	2015-16
9	ECSRE09	The design and implementation of a Cloud Renewable Energy Management System	2015-16
10	ECSRE10	Decentralized Energy Allocation for Wireless Networks with Renewable Energy Powered Base Stations	2015-16
11	ECSRE11	Increasing sustainability and resiliency of cellular network infrastructure by harvesting renewable energy	2015-16
12	ECSRE12	SWOT analysis: Tunisian energy system	2015-16
13	ECSRE13	Adaptive tracking channel control for GNSS receivers under renewable energy	2015-16
14	ECSRE14	Economic and environmental impact of photovoltaic and wind energy high penetration towards the achievement of the Italian	2015-16

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		20-20-20 targets	
15	ECSRE15	Model predictive control of hydrogen production by renewable energy	2015-16
16	ECSRE16	A new multi-input three-level integrated DC/DC converter for renewable energy systems	2015-16
17	ECSRE17	Sizing optimization tool for wind/photovoltaic/battery plant considering potentials assessment and load profile	2015-16
18	ECSRE18	Hybrid double flying capacitor multicell converter for renewable energy integration	2015-16
19	ECSRE19	Analysis of the optimal combination of renewable energies for an enterprise	2015-16
20	ECSRE20	Effect of parallel and series connection configuration of solar collector on the solar system performances	2015-16
21	ECSRE21	Modeling and simulation of a novel solar PV/ battery hybrid energy system with a single phase five level inverter	2015-16
22	ECSRE22	Experimental study of two insulated solar greenhouses one of them use a solar air heater with latent heat	2015-16
23	ECSRE23	Wafer-Bonded GaInP/GaAs//Si Solar Cells With 30% Efficiency Under Concentrated Sunlight	2015-16
24	ECSRE24	Control strategies for solar panel companion inverters	2015-16
25	ECSRE25	Local Series Resistance Imaging of Silicon Solar Cells With Complex Current Paths	2015-16
26	ECSRE26	Selenium metal flexible solar cell	2015-16
27	ECSRE27	Approach for the modeling of hybrid photovoltaic–thermal solar collector	2015-16
28	ECSRE28	Anomaly Detection of Solar Power Generation Systems Based on the Normalization of the Amount of Generated Electricity	2015-16
29	ECSRE29	Efficiency Potential of Rear Heterojunction Stripe Contacts Applied in Hybrid Silicon Wafer Solar Cells	2015-16
30	ECSRE30	Simulation Investigation of High-Efficiency Solar	2015-16

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		Thermoelectric Generators with Inhomogeneously Doped Nanomaterials	
31	ECSRE31	Experimental study of a solar water desalination system utilizing evacuated tube heat pipe collector	2015-16
32	ECSRE32	Harmonic analysis based hourly solar radiation forecasting model	2015-16
33	ECSRE33	New Control of PV Solar Farm as STATCOM (PV-STATCOM) for Increasing Grid Power Transmission Limits during Night and Day	2015-16
34	ECSRE34	Optimizing Folded Silicon Thin-Film Solar Cells on ZnO Honeycomb Electrodes	2015-16
35	ECSRE35	Laser-Doped Back-Contact Solar Cells	2015-16
36	ECSRE36	Optimization of the wind farm energy capture by minimizing the wake effects	2015-16
37	ECSRE37	Coordinated Predictive Control of DFIG-Based Wind-Battery Hybrid Systems: Using Non-Gaussian Wind Power Predictive Distributions	2015-16
38	ECSRE38	Maximum Power Point Tracking Strategy for Large-Scale Wind Generation Systems Considering Wind Turbine Dynamics	2015-16
39	ECSRE39	An aggregate model of PMSG-based, grid connected wind farm: Investigation of LVRT capabilities	2015-16
40	ECSRE40	On the Use of Pumped Storage for Wind Energy Maximization in Transmission-Constrained Power Systems	2015-16
41	ECSRE41	Design of a micro-wind turbine for implementation in low wind speed environments	2015-16
42	ECSRE42	Power control of a wind energy conversion system	2015-16

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43	ECSRE43	A Novel Wind Power Forecast Model: Statistical Hybrid Wind Power Forecast Technique (SHWIP)	2015-16
44	ECSRE44	Analysis and simulation of stand-alone wind turbines exposed to different wind distribution	2015-16
45	ECSRE45	Distributed Model Predictive Control of a Wind Farm for Optimal Active Power Control—Part II: Implementation With Clustering-Based Piece-Wise Affine Wind Turbine Model	2015-16
46	ECSRE46	Wind farm layout design using modified particle swarm optimization algorithm	2015-16
47	ECSRE47	Experiment on Grid-Connection Process of Wind Turbines in Fractional Frequency Wind Power System	2015-16
48	ECSRE48	Characterization of large disturbance rotor angle and voltage stability in interconnected power networks with distributed wind generation	2015-16
49	ECSRE49	Wind speed numerical simulation calculations for novel wind tunnel	2015-16
50	ECSRE50	Advanced Pitch Angle Control Based on Fuzzy Logic for Variable-Speed Wind Turbine Systems	2015-16

## PLC/SCADA

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSPSA01	A Model-Driven Approach on Object-Oriented PLC Programming for Manufacturing Systems with Regard to Usability	2015-16
2	ECSPSA02	Development of Instrument Control Electronics for PLC-based Analytical Instrumentation	2015-16
3	ECSPSA03	Integrating SCADA, Load Shedding, and High-Speed Controls on an Ethernet Network at a North American Refinery	2015-16
4	ECSPSA04	SCADA communications for protection engineers	2015-16
5	ECSPSA05	Intelligent Identification of Voltage Variation Events Based on IEEE Std 1159-2009 for SCADA of Distributed Energy	2015-16

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		System	
6	ECSPSA06	Power System Reliability Evaluation With SCADA Cyber security Considerations	2015-16
7	ECSPSA07	Low cost SCADA system for education	2015-16
8	ECSPSA08	Parameter Estimation of Multiterminal Transmission Lines Using Joint PMU and SCADA Data	2015-16
9	ECSPSA09	Maintaining HMI and SCADA Systems Through Computer Virtualization	2015-16
10	ECSPSA10	Evaluation of AMI and SCADA Data Synergy for Distribution Feeder Modeling	2015-16
11	ECSPSA11	Design issues and solutions in a modern home automation system	2015-16
12	ECSPSA12	Design and Analysis of Multimodel-Based Anomaly Intrusion Detection Systems in Industrial Process Automation	2015-16
13	ECSPSA13	Architecture of FPGA Embedded Multiprocessor Programmable Controller	2015-16
14	ECSAP14	Built in binary code inversion technique for on chip flash memory sense amplifier with reduced read current consumption	2015-16
15	ECSAP15	Control of an electro mechanical hydrocephalus shunt – a new approach	2015-16
16	ECSAP16	Design and Experimental Evaluation of a 256-Channel Dual-Frequency Ultrasound Phased-Array System for Transcranial Blood–Brain Barrier Opening and Brain Drug Delivery	2015-16
17	ECSAP17	Design and Open-Loop Control of the ParkourBot, a Dynamic Robot	2015-16
18	ECSAP18	Design of a DC Excitation Control for an Autonomous Wound-Rotor Induction Generator in Renewable- Energy Systems	2015-16
19	ECSAP19	A Can Bus Based Fault Monitoring And Diagnosis System	2015-16

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## HARDWARE PROJECTS

S.NO	CODE	PROJECT TITLE	YEAR
1	ECSHP01	a device for emulating cuff recordings of action potentials propagating along peripheral nerves	2015-16
2	ECSHP02	A digital hygrometer for trace moisture measurement	2015-16
3	ECSHP03	A modified dual output interleaved PFC converter using single negative rail current sense for server power systems	2015-16
4	ECSHP04	A nonlinear controller for pneumatic servo systems: design and experimental tests	2015-16
5	ECSHP05	Active clamping circuit with status feedback for series connected HV-IGBTs	2015-16
6	ECSHP06	Automated irrigation system using a wireless sensor network and GPRS module	2015-16
7	ECSHP07	Control of an electro mechanical hydrocephalus shunt- a new approach	2015-16
8	ECSHP08	Design and experimental evaluation of a 256- channel dual frequency ultra sound phased array system for transcranial blood brain barrier opening and brain drug delivery	2015-16
9	ECSHP09	Design of a DC excitation control for an autonomous wound rotor induction generator in renewable energy systems	2015-16
10	ECSHP10	Frequency variance based antistrong vibration interference method for vortex flow sensor	2015-16
11	ECSHP11	Global maximum power point tracking of flexible photo voltaic modules	2015-16
12	ECSHP12	Hierarchical extreme learning machine polynomial based low valued capacitance measurement using frequency synthesizer-vector voltmeter	2015-16
13	ECSHP13	MPPT of PV systems under partial shaded conditions through a colony of flashing fireflies	2015-16
14	ECSHP14	Realization of try-once-discard in wireless multihop networks	2015-16
15	ECSHP15	Sensor less illumination control of a networked LED-lighting system using feed forward neural network	2015-16
16	ECSHP16	Simplified reactive power control for single phase grid connected photovoltaic inverters	2015-16

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17	ECSHP17	Wireless sensing and vibration control with increased redundancy and robustness design	2015-16
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