



SPIRO SOLUTIONS PVT LTD



SPIRO

Solutions Pvt. Ltd



- **Research & Development Program(RDP)**
- **Final Year Academic Project(FAP) in Software and Embedded Technologies**
- **Application Development Program(ADP)**

PROJECT TITLES GUIDE
2017-2018

www.spiroprojects.com



DATA MINING			
329.	ITDDM01	Reducing Uncertainty of Probabilistic Top-k Ranking via Pairwise Crowd sourcing	2017
330.	ITDDM02	An Approach for Building Efficient and Accurate Social Recommender Systems using Individual Relationship Networks	2017
331.	ITDDM03	A Probabilistic Model of Social Working Memory for Information Retrieval in Social Interactions	2017
332.	ITDDM04	Gracker: A Graph-based Planar Object Tracker	2017
333.	ITDDM05	Query Expansion with Enriched User Profiles for Personalized Search Utilizing Folksonomy Data	2017
334.	ITDDM06	A New Methodology for Mining Frequent Item sets on Temporal Data	2017
335.	ITDDM07	Efficient High Utility Pattern Mining for Establishing Manufacturing Plans with Sliding Window Control	2017
336.	ITDDM08	Information Seeking in Online Healthcare Communities: The Dual Influence From Social Self and Personal Self	2017
337.	ITDDM09	Joint Alignment of Multiple Point Sets with Batch and Incremental Expectation-Maximization	2017
338.	ITDDM10	Predicting Social Emotions from Readers' Perspective	2017

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339.	ITDDM11	Efficient Keyword-aware Representative Travel Route Recommendation	2017
340.	ITDDM12	Public Interest Analysis Based on Implicit Feedback of IPTV Users	2017
341.	ITDDM13	Uncertain Data Clustering in Distributed Peer-to-Peer Networks	2017
342.	ITDDM14	Adaptively Exploring Population Mobility Patterns in Flow Visualization	2017
343.	ITDDM15	Mining Fashion Outfit Composition Using an End-to-End Deep Learning Approach on Set Data	2017
344.	ITDDM16	On the Privacy and Performance of Mobile Anonymous Microblogging	2016
345.	ITDDM17	Aspect-level Influence Discovery from Graphs	2016
346.	ITDDM18	User Preference Learning for Online Social Recommendation	2016
347.	ITDDM19	Microblogging Content Propagation Modeling Using Topic-specific Behavioral Factors	2016
348.	ITDDM20	Privacy-Preserving Outsourced Association Rule Mining on Vertically Partitioned Databases	2016
349.	ITDDM21	Pattern Based Sequence Classification	2016
350.	ITDDM22	Mining Health Examination Records— A Graph based Approach	2016
351.	ITDDM23	Privacy-Preserving and Regular Language Search over Encrypted Cloud Data	2016
352.	ITDDM24	An Efficient Privacy-Preserving Ranked	2016

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		Keyword Search Method	
353.	ITDDM25	A Recommendation System to Facilitate Business Process Modeling	2016
354.	ITDDM26	A Mixed Generative-Discriminative Based Hashing Method	2016
355.	ITDDM27	Listwise Learning to Rank by Exploring Structure of Objects	2016
356.	ITDDM28	Rating Prediction based on Social Sentiment from Textual Reviews	2016
357.	ITDDM29	A Novel Recommendation Model Regularized with User Trust and Item Ratings	2016
358.	ITDDM30	Connecting Social Media to E-Commerce: Cold-Start Product Recommendation using Micro blogging Information	2016
NETWORKING			
359.	ITDNW01	Wormhole: The Hidden Virus Propagation Power of a Search Engine in Social Networks	2017
360.	ITDNW02	Congestion Control for Background Data Transfers With Minimal Delay Impact	2017
361.	ITDNW03	Transient Community Detection and Its Application to Data Forwarding in Delay Tolerant Networks	2017
362.	ITDNW04	A Statistical Exploration of Protocol Adoption	2017
363.	ITDNW05	No Packet Left Behind: Avoiding Starvation in Dynamic Topologies	2017
364.	ITDNW06	Green Virtualization for Multiple Collaborative Cellular Operators	2017
365.	ITDNW07	DORE: An Experimental Framework to Enable Outband D2D Relay in Cellular Networks	2017

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366.	ITDNW08	Congestion Control for Web Real-Time Communication	2017
367.	ITDNW10	STARS Computing Corps: Enhancing Engagement of Underrepresented Students and Building Community in Computing	2016
368.	ITDNW11	Secure Transmission Against Pilot Spoofing Attack: A Two-Way Training-Based Scheme	2016
369.	ITDNW12	A Feasible IP Traceback Framework through Dynamic Deterministic Packet Marking	2016
370.	ITDNW13	Simultaneously Generating Secret and Private Keys in a Cooperative Pairwise Independent Network	2016
371.	ITDNW14	Trust-distortion Resistant Trust Management Frameworks on Mobile Ad hoc Networks: A Survey	2016
372.	ITDNW15	Sociality-aided new adaptive infection recovery schemes for multicast DTNs	2016
373.	ITDNW16	Sustainability of Service Provisioning Systems under Stealth DoS Attacks	2016
NETWORK SECURITY			
374.	ITDNS01	Further Improving Efficiency of Higher-Order Masking Schemes by Decreasing Randomness Complexity	2017
375.	ITDNS02	Network-Based Modeling for Characterizing Human Collective Behaviors During Extreme Events	2017
376.	ITDNS03	Protecting Secret Key Generation Systems Against Jamming: Energy Harvesting and Channel Hopping Approaches	2017
377.	ITDNS04	Someone in Your Contact List: Cued Recall-Based Textual Passwords	2017

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378.	ITDNS05	A Game-Theoretic Analysis of Adversarial Classification	2017
379.	ITDNS06	A New Rule for Cost Reassignment in Adaptive Steganography	2017
380.	ITDNS07	On the Maximum Rate of Networked Computation in a Capacitated Network	2017
381.	ITDNS08	Detecting Malicious Facebook Applications	2016
382.	ITDNS09	Reversible Data Hiding: Advances in the Past Two Decade	2016
383.	ITDNS10	An Efficient Privacy-Preserving Outsourced Calculation Toolkits with Multiple Keys	2016
384.	ITDNS11	Conjunctive Keyword Search with Designated Tester and Timing Enabled Proxy Re-encryption Function for E-health Clouds	2016
385.	ITDNS12	Efficient Anonymous Message Submission	2016
386.	ITDNS13	Personalized Influential Topic Search via Social Network Summarization	2016
387.	ITDNS14	Profiling Online Social Behaviors for Compromised Account Detection	2016
MOBILE COMPUTING			
388.	ITDMC01	Data Quality Guided Incentive Mechanism Design for Crowd sensing	2017
389.	ITDMC02	Temporal Correlation of Interference and Outage in Mobile Networks over One-Dimensional Finite Regions	2017
390.	ITDMC03	Optimal Capacity-Delay Tradeoff in MANETs with Correlation of Node Mobility	2016
391.	ITDMC04	Towards Information Diffusion in Mobile Social Networks	2016
392.	ITDMC05	A Context-Aware Architecture Supporting Service Availability in Mobile Cloud Computing	2016

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393.	ITDMC06	Leveraging Crowd sourcing for Efficient Malicious Users Detection in Large-Scale Social Networks	2016
394.	ITDMC07	Wireless Resource Scheduling Based on Backoff for Multi-user Multi-service Mobile Cloud Computing	2016
IMAGE PROCESSING			
395.	ITDIM01	Inferring Emotional Tags From Social Images With User Demographics	2017
396.	ITDIM02	Image Re-Ranking Based on Topic Diversity	2017
397.	ITDIM03	Instance-Aware Hashing for Multi-Label Image Retrieval	2016
398.	ITDIM04	Saliency-Aware Nonparametric Foreground Annotation Based on Weakly Labeled Data	2016
399.	ITDIM05	Tag Based Image Search by Social Re-ranking	2016
400.	ITDIM06	Semantic Concept Co-occurrence Patterns for Image Annotation and Retrieval	2016
401.	ITDIM07	Social Diffusion Analysis with Common-Interest Model for Image Annotation	2016
MULTIMEDIA			
402.	ITDMM01	Joint Latent Dirichlet Allocation for Social Tags	2017
403.	ITDMM02	Frame Interpolation for Cloud-Based Mobile Video Streaming	2016
404.	ITDMM03	Securing SIFT: Privacy-preserving Outsourcing Computation of Feature Extractions over Encrypted Image Data	2016
405.	ITDMM04	Towards Cost-Efficient Content Placement in Media Cloud: Modeling and Analysis	2016
SOFTWARE ENGINEERING			
406.	ITDSW01	PBL-SEE: An Authentic Assessment Model	2017

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		for PBL-Based Software Engineering Education	
407.	ITDSW02	Global-Aware Recommendations for Repairing Violations in Exception Handling	2017
408.	ITDSW03	Genetic Improvement of Software: a Comprehensive Survey	2017
409.	ITDSW04	Detecting overly strong preconditions in refactoring engines	2017
410.	ITDSW05	Multi-Role Project (MRP): A New Project-Based Learning Method for STEM	2016
411.	ITDSW06	Heuristics for provisioning services to work flows in XaaS Clouds	2016
412.	ITDSW07	Metamorphic Testing for Software Quality Assessment: A Study of Search Engines	2016
JAVA			
IEEE TRANSACTION ON DATA MINING			
166.	ITJDM01	Supervised and Unsupervised Aspect Category Detection for Sentiment Analysis with Co-Occurrence Data	2017
167.	ITJDM02	Design and Implementation of an RFID-Based Customer Shopping Behavior Mining System	2017
168.	ITJDM03	A Natural Language Processing Framework for Assessing Hospital Readmissions for Patients with COPD	2017
169.	ITJDM04	Event Detection and User Interest Discovering in Social Media Data Streams	2017
170.	ITJDM05	Approaches to Cross-Domain Sentiment Analysis: A Systematic Literature Review	2017
171.	ITJDM06	Building and Querying an Enterprise	2017

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		Knowledge Graph	
172.	ITJDM07	A Novel Variable Precision Reduction Approach to Comprehensive Knowledge Systems	2017
173.	ITJDM08	Multi-Target Regression via Robust Low-Rank Learning	2017
174.	ITJDM09	New Splitting Criteria for Decision Trees in Stationary Data Streams	2017
175.	ITJDM10	Systematic Review on Educational Data Mining	2017
176.	ITJDM11	Mining Human Activity Patterns from Smart Home Big Data for Healthcare Applications	2017
177.	ITJDM12	Random Forest Classifier for Zero-Shot Learning Based on Relative Attribute	2017
178.	ITJDM13	Scientific Workflow Mining in Clouds	2017
179.	ITJDM14	Mining Competitors from Large Unstructured Datasets	2017
180.	ITJDM15	Mining Online Discussion Data for Understanding Teachers' Reflective Thinking	2017
181.	ITJDM16	Privacy-Preserving Utility Verification of the Data Published by Non-interactive Differentially Private Mechanisms	2016
182.	ITJDM17	Bi-level Feature Extraction-Based Text Mining for Fault Diagnosis of Railway Systems	2016
183.	ITJDM18	Integration of Personalized Healthcare Pathways In An ICT Platform For Diabetes Management: A Small Scale Exploratory Study	2016

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184.	ITJDM19	Learning Proximity Relations for Feature Selection	2016
185.	ITJDM20	Multi-Modal Event Topic Model for Social Event Analysis	2016
186.	ITJDM21	Microblog Dimensionality Reduction– a Deep learning Approach	2016
187.	ITJDM22	Fine-Grained Image Classification via Low-Rank Sparse Coding With General and Class-Specific Codebooks	2016
188.	ITJDM23	Irregular indeterminate repeated facts in Temporal Relational Databases.	2016
189.	ITJDM24	Survey on Aspect Level Sentiment Analysis	2016
190.	ITJDM25	Unsupervised Many-to-Many Object Matching for Relational Data	2016
191.	ITJDM26	User Recommender System Based on Knowledge, Availability, and Reputation From Interactions in Forums	2016
192.	ITJDM27	Assessing anti-depressants using intelligent data monitoring and mining of online fora	2016
193.	ITJDM28	Privacy-Preserving Patient-Centric Clinical Decision Support System on Naive Bayesian Classification	2016
194.	ITJDM29	k-Nearest Neighbor Classification over Semantically Secure Encrypted Relational Data	2015
195.	ITJDM30	Dual Sentiment Analysis: Considering Two Sides of One 2015 Review	2015
196.	ITJDM31	Real-Time City-Scale Taxi Ridesharing	2015
197.	ITJDM32	Relevance Feature Discovery for Text Mining	2015
198.	ITJDM33	RRW—A Robust and Reversible Water	2015

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		marking Technique for Relational Data	
199.	ITJDM34	An Internal Intrusion Detection and Protection System by Using Data Mining and Forensic Techniques	2015
200.	ITJDM35	Relational Collaborative Topic Regression for Recommender Systems	2015
201.	ITJDM36	A Novel Data-Mining Approach Leveraging Social Media to Monitor Consumer Opinion of Sitagliptin	2015
202.	ITJDM37	Malware Propagation in Large-Scale Networks	2015
203.	ITJDM38	Understanding User Intents in Online Health Forums	2015
204.	ITJDM39	A Query Approach for Influence Maximization on Specific Users in Social Networks	2015
205.	ITJDM40	Differentially Private Frequent Item set Mining via Transaction Splitting	2015
205.	ITJDM41	Learning to Rank Using User Clicks and Visual Features for Image Retrieval	2015
206.	ITJDM41	TRIP: An Interactive Retrieving-Infering Data Imputation Approach	2015

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Education Partners:



Technologies and Domain used:

IEEE 2017, Java, J2ee, Android, Bigdata, Dot net, Arduino, Raspberry pi, IOT, Renewable, PHP, Embedded, Vlsi, Matlab, VB, Net working, Data Mining, Image Processing, Cloud Computing, Mobile Computing, Multimedia, Network Security, Soft Engg, Grid Computing, Automation, Robotics, Communication, RF, Zigbee, Blue tooth, GSM/GPS/GPRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, Civil, Analysis, Fabrication, Mechanical, CFD, FEA, etc.

Features

- Latest 2017 IEEE, Science Direct, ACM based project concept and solutions.
- State of the art infrastructure, Innovative Project training methods.
- All our efforts are focused on students to meet industry requirements.
- Our environment is encapsulated with doctorates, professionals and other experts.
- Excellent Placements through our **Spiro HR Management Consultants (SMC) Pvt Ltd.**

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