



SPIRO
SOLUTIONS PVT LTD

IMAGE PROCESSING
PROJECT TITLE
2016 - 2017



MATLAB - DIGITAL IMAGE/SIGNAL PROCESSING			
MEDICAL IMAGE PROCESSING			
S.NO	PROJECT CODE	TITLE	YEAR
1	ITIMP01	A Discriminatively Trained Fully Connected Conditional Random Field Model for Blood Vessel Segmentation in Fundus Images	2016
2	ITIMP02	Bleeding Frame and Region Detection in the Wireless Capsule Endoscopy Video	2016
3	ITIMP03	Statistical Modeling of Retinal Optical Coherent Tomography	2016
4	ITIMP04	Red Lesion Detection using Dynamic Shape Features for Diabetic Retinopathy Screening	2016
5	ITIMP05	Breast Cancer Detection using PCPCET and ADEWNN: A Geometric Invariant Approach to Medical X-rays Image Sensors	2016
6	ITIMP06	Automatic Lumbar Spondylolisthesis Measurement in CT Images	2016
7	ITIMP07	Brain Tumor Segmentation using Convolutional Neural Networks in MRI Images	2016
8	ITIMP08	A Novel Approach to Segment Skin Lesions in Dermoscopic Images Based on a Deformable Model	2016
9	ITIMP09	Optic Disc Localization in Retinal Images based on Cumulative Sum Fields	2016
10	ITIMP10	Automated vessel segmentation using infinite perimeter active contour model with hybrid region information with application to retinal images	2015
11	ITIMP11	Fast and Adaptive Detection of Pulmonary Nodules in Thoracic CT Images Using a Hierarchical Vector Quantization Scheme	2015
12	ITIMP12	Automatic Classification of Intracardiac Tumor and Thrombi in Echocardiography Based on Sparse Representation	2015
13	ITIMP13	Four-class classification of skin lesions with task decomposition strategy	2015
14	ITIMP14	Adaptive Co-Segmentation Of Pheochromocytomas In CECT Images Using Localized Level Set Models	2015

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IMAGE RETRIEVAL			
15	ITIMP15	Multi-label Dictionary Learning for ImageAnnotation	2016
16	ITIMP16	Query-adaptive Small Object Search usingObject Proposals and Shape-aware Descriptors	2016
17	ITIMP17	Sketch-based Image Retrieval by Salient Contour Reinforcement	2016
18	ITIMP18	Clothes Co-Parsing via Joint Image Segmentation and Labeling with Application to Clothing Retrieval	2016
19	ITIMP19	A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval	2015
NEURAL NETWORKS			
20	ITIMP20	Non-Local Auto-Encoder With CollaborativeStabilization for Image Restoration	2016
21	ITIMP21	Machine learning methods for binary and multiclass classification of melanoma thickness fromdermoscopic images	2016
22	ITIMP22	Locality Sensitive Deep Learning for Detection and Classification of Nuclei in Routine Colon Cancer Histology Images	2016
23	ITIMP23	Compressed-Domain Ship Detection on Space borne Optical Image Using Deep Neural Network and Extreme Learning Machine	2015
IMAGE SEGMENTATION			
24	ITIMP24	Patch-Based Video DenoisingWithOptical Flow Estimation	2016
25	ITIMP25	CASAIR: Content and Shape-Aware ImageRetargeting and Its Applications	2016
26	ITIMP26	Comprehensive and Practical Vision System for Self-Driving Vehicle Lane-Level Localization	2016
27	ITIMP27	Hierarchical Image Saliency Detectionon Extended CSSD	2016
28	ITIMP28	Robust Blur Kernel Estimation for License PlateImages from Fast Moving Vehicles	2016
29	ITIMP29	Traffic sign detection via graph-based ranking and segmentation algorithms	2015
30	ITIMP30	Segmentation-Based Image Copy-Move Forgery Detection Scheme	2015
31	ITIMP31	Elaboration of Novel Image Processing Algorithm for	2015

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		Arcing Discharges Recognition on HV Polluted Insulator Model	
STEGANOGRAPHY			
32	ITIMP32	Lossless Compression of JPEG Coded PhotoCollections	2016
33	ITIMP33	Secure Reversible Image Data Hiding overEncrypted Domain via Key Modulation	2016
34	ITIMP34	An image encryption algorithm based onauto-blocking and ECG signal	2016
35	ITIMP35	Remote Authentication via Biometrics: A Robust Video-Object Steganographic Mechanism Over Wireless Networks	2016
36	ITIMP36	High Capacity Reversible Data Hiding in Encrypted Images by Patch-Level Sparse Representation	2016
BIOMETRICS			
37	ITIMP37	Robust Point Set Matching for Partial FaceRecognition	2016
38	ITIMP38	Fingerprint Liveness Detection From Single ImageUsing Low Level Features and Shape Analysis	2016
39	ITIMP39	Face recognition across non-uniform motion blur, illuminationand pose	2015
AUDIO PROCESSING			
40	ITIMP40	Anti-Spoofing for Text-Independent SpeakerVerification: An Initial Database, Comparisonof Countermeasures, and Human Performance	2016
41	ITIMP41	Logistic Regression-HSMM-based Heart Sound Segmentation	2016
42	ITIMP42	User-Independent Recognition of Sports Activitiesfrom a Single Wrist-worn Accelerometer:A Template Matching Based Approach	2016
43	ITIMP43	Electrocardiograph compression based on sifting process of empirical mode decomposition	2016
44	ITIMP44	Speech Emotion Recognition UsingFourier Parameters	2015
ARDUINO WITH MATLAB			
45	ITIMP45	Automated Control System for Arduino and Android Based Intelligent Greenhouse	2016
46	ITIMP46	Vision based Bottle classification and Automatic Bottle Filling System	2016
47	ITIMP47	Arduino Based Supervision of Banana RipeningStages	2016

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48	ITIMP48	Biometric Access for a Secure Smart Robot	2016
49	ITIMP49	Remote Image Sensing Platform Based on Arduino	2016
50	ITIMP50	Gesture Signals Processing for a Silent Spybot	2016
51	ITIMP51	Controlling Robotic arm through arduino using voice	2016
52	ITIMP52	Intelligent Collision avoidance rover	2016
53	ITIMP53	GUI Controlled BOT using Image Processing	2016
54	ITIMP54	Design of Small Smart Home SystemBased on Arduino	2016
RASPBERRY PI WITH MATLAB			
55	ITIMP55	Smart Drip Irrigation System using Raspberry pi and Arduino	2016
56	ITIMP56	Incorporating Skin Color for Improved FaceDetection and Tracking System	2016
57	ITIMP57	Text-to-Speech Device for Patients with Low Vision	2016
58	ITIMP58	Raspberry Pi Based Laser Spot Detection	2016
59	ITIMP59	Raspberry Pi Image Processing Based Economical AutomatedToll System	2016
60	ITIMP60	Ball Tracking using Raspberry Pi	2016
61	ITIMP61	Real Time Smile Detection using Haar Classifiers on SoC	2016
62	ITIMP62	An Internet of Things Approach for Motion Detection using Raspberry Pi	2016
63	ITIMP63	Real-time Fire Detection for Video Surveillance Applications using a Combination of Expertsbased on Color, Shape and Motion	2016
64	ITIMP64	A Compressive Sensing Approach to DescribeIndoor Scenes for Blind People	2016
65	ITIMP65	Implementation of Line Tracking Algorithm using Raspberry Pi	2016
RASPBERRY PI WITH PYTHON			
66	ITIMP66	An Internet of Things Approach for Motion Detection using Raspberry Pi	2016
67	ITIMP67	Raspberry PI Based Global Industrial Process Monitoring Through Wireless Communication	2016
68	ITIMP68	From RGB led laboratory to servomotor control with websockets and IoT as educational tool	2016
69	ITIMP69	Globally Accessible Machine Automation Using Raspberry Pi	2016
70	ITIMP70	Healthcare based on IoT using Raspberry Pi	2016

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Education Partners:



Technologies and Domain used:

IEEE 2016, Java, J2ee, Android, Dot net, 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, etc.

Features

- Latest 2016 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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