



# SPECTRUM SOLUTIONS

Pondicherry, India

*Approved by Indian Government under Section 27*

Sl.No	PROJECT TITLES	YEAR
IXML1	Relative Forest for Visual Attribute Prediction	2016-2017
IXML2	Piecewise Mapping in HEVC Lossless Intra-Prediction Coding	2016-2017
IXML3	Multichannel Decoded Local Binary Patterns for Content-Based Image Retrieval	2016-2017
IXML4	High-Resolution Image Classification Integrating Spectral-Spatial-Location Cues by Conditional Random Fields	2016-2017
IXML5	Image Coding Using Generalized Predictors Based on Sparsity and Geometric Transformations	2016-2017
IXML6	Large Deformation Multiresolution Diffeomorphic Metric Mapping for Multiresolution Cortical Surfaces: A Coarse-to-Fine Approach	2016-2017
IXML7	Total Variation Regularized Tensor RPCA for Background Subtraction From Compressive Measurements	2016-2017
IXML8	SERF: A Simple, Effective, Robust, and Fast Image Super-Resolver From Cascaded Linear Regression	2016-2017
IXML9	Low-Delay Rate Control for Consistent Quality Using Distortion-Based Lagrange Multiplier	2016-2017
IXML10	Non-Iterative Rigid 2D/3D Point-Set Registration Using Semidefinite Programming	2016-2017
IXML11	Clustered-Dot Screen Design for Digital Multitoning	2016-2017
IXML12	Adaptive Quantization Parameter Cascading in HEVC Hierarchical Coding	2016-2017
IXML13	Representation Learning of Temporal Dynamics for Skeleton-Based Action Recognition	2016-2017
IXML14	Postprocessing of Compressed Images via Sequential Denoising	2016-2017

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IXML15	Joint Data Filtering and Labeling Using Gaussian Processes and Alternating Direction Method of Multipliers	2016-2017
IXML16	The Relative Impact of Ghosting and Noise on the Perceived Quality of MR Images	2016-2017
IXML17	Multi-Viewpoint Panorama Construction With Wide-Baseline Images	2016-2017
IXML18	Layered Coding for Mobile Cloud Gaming Using Scalable Blinn-Phong Lighting	2016-2017
IXML19	Compressive Sensing Image Restoration Using Adaptive Curvelet Thresholding and Nonlocal Sparse Regularization	2016-2017
IXML20	Defocus Blur-Invariant Scale-Space Feature Extractions	2016-2017
IXML21	Supervised Matrix Factorization Hashing for Cross-Modal Retrieval	2016-2017
IXML22	Semi-Local Scaling Exponent Estimation With Box-Penalty Constraints and Total-Variation Regularization	2016-2017
IXML23	Local Spectral Component Decomposition for Multi-Channel Image Denoising	2016-2017
IXML24	Ontology-Based Semantic Image Segmentation Using Mixture Models and Multiple CRFs	2016-2017
IXML25	Classwise Sparse and Collaborative Patch Representation for Face Recognition	2016-2017
IXML26	Multiple Kernel Sparse Representation based Orthogonal Discriminative Projection and Its Cost-Sensitive Extension	2016-2017
IXML27	Multi-Tissue Decomposition of Diffusion MRI Signals via L0 Sparse-Group Estimation	2016-2017
IXML28	Feature Quality Based Dynamic Feature Selection for Improving Salient Object Detection	2016-2017
IXML29	Single Image Super Resolution using a Joint GMM Method	2016-2017
IXML30	Deep and Structured Robust Information Theoretic Learning for Image Analysis	2016-2017
IXML31	Double Low Rank Matrix Recovery for Saliency Fusion	2016-2017
IXML32	Estimation of Gaussian, Poissonian-Gaussian, and Processed Visual Noise and its Level Function	2016-2017
IXML33	Low-Rank Decomposition Based Restoration of Compressed Images via Adaptive Noise Estimation	2016-2017

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IXML34	Separation Surfaces in the Spectral TV Domain for Texture Decomposition	2016-2017
IXML35	Automatic Reference Color Selection for Adaptive Mathematical Morphology and Application in Image Segmentation	2016-2017
IXML36	Backward Registration Based Aspect Ratio Similarity (ARS) for Image Retargeting Quality Assessment	2016-2017
IXML37	Blind Image Quality Assessment based on High Order Statistics Aggregation	2016-2017
IXML38	Computationally Efficient Truncated Nuclear Norm Minimization for High Dynamic Range Imaging	2016-2017
IXML39	Blind Deblurring and Denoising of Images Corrupted by Unidirectional Object Motion Blur and Sensor Noise	2016-2017
IXML40	Video Extrapolation Method Based on Time-Varying Energy Optimization And CIP	2016-2017
IXML41	Joint Low-Rank and Sparse Principal Feature Coding for Enhanced Robust Representation and Visual Classification	2016-2017
IXML42	A Compressive Multi-Frequency Linear Sampling Method for Underwater Acoustic Imaging	2016-2017
IXML43	Antipodally Invariant Metrics for Fast Regression-Based Super-Resolution	2016-2017
IXML44	Instance-Aware Hashing for Multi-Label Image Retrieval	2016-2017
IXML45	An Optical Flow-Based Full Reference Video Quality Assessment Algorithm	2016-2017
IXML46	Face Aging Effect Simulation Using Hidden Factor Analysis Joint Sparse Representation	2016-2017
IXML47	Contrast Driven Elastic for Image Segmentation	2016-2017
IXML48	Fast and Provably Accurate Bilateral Filtering	2016-2017
IXML49	Text-Attentional Convolutional Neural Network for Scene Text Detection	2016-2017
IXML50	Cross-View Action Recognition via Transferable Dictionary Learning	2016-2017
IXML51	Brain Tumor Segmentation using Convolutional Neural Networks in MRI Images	2016-2017
IXML52	Cross-Domain Color Facial Expression Recognition Using Transductive Transfer Subspace Learning	2016-2017
IXML53	Hybrid Approach For Automatic Segmentation Of Fetal Abdomen From Ultrasound Images Using Deep Learning	2016-2017
IXML54	Glaucoma Detection through Optic Disc and Cup Segmentation using K-mean Clustering	2016-2017

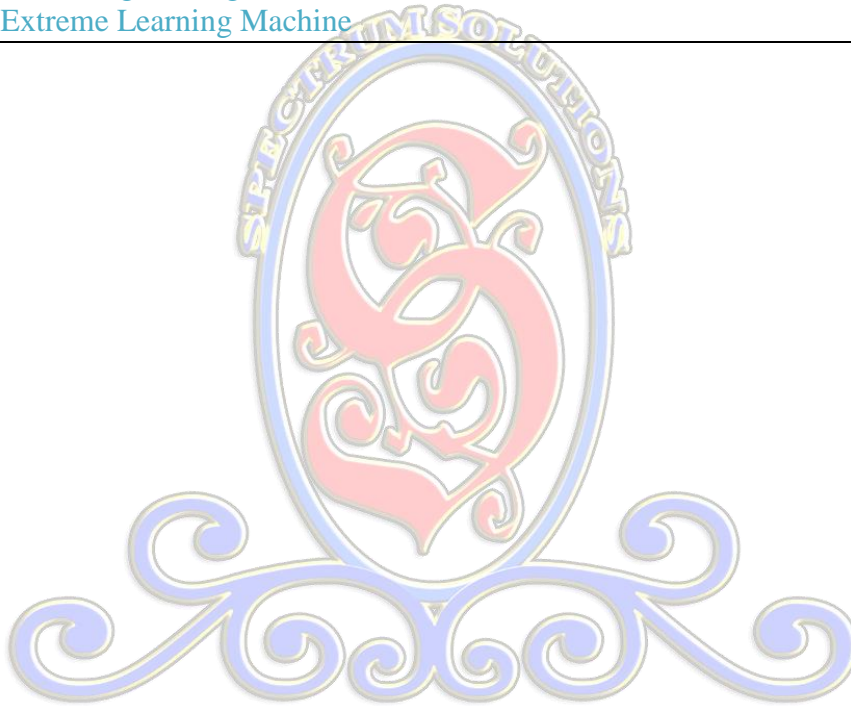
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IXML55	Image compressive sensing cryptographic analysis	2016-2017
IXML56	Fusion of Quantitative Image and Genomic Biomarkers to Improve Prognosis Assessment of Early Stage Lung Cancer Patients	2016-2017
IXML57	Dual-Bound-Constraints in Morphological Model Refinement for Multiple Skin Color Tones Detection	2016-2017
IXML58	Palm print Recognition Using Neighboring Direction Indicator	2016-2017
IXML59	Deep Dynamic Neural Networks for Multimodal Gesture Segmentation and Recognition	2016-2017
IXML60	SAR Image Change Detection Based on Correlation Kernel and Multistage Extreme Learning Machine	2016-2017



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