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2015 – 2016 IMAGE PROCESSING B.TECH IEEE TITLES

S.NO	Title	Domain
1	Classification of monogenic scale space application to target recognition in SAR image	TARGET RECOGNITION
2.	Vector sparse representation of color image using quaternion matrix analysis	TARGET RECOGNITION
3	Matching of large images through couple decomposition	IMAGE RETRIEVAL
4	Weighted guided image filtering	IMAGE RETRIEVAL
5	Hierarchical graphical models for simultaneous tracking and recognition in wide area scenes	IMAGE RETRIEVAL
6	Polar embedding for aurora image retrieval	IMAGE RETRIEVAL
7	Robust representation and recognition of facial emotions using extreme sparse learning	BIOMETRICS
8	Structure-sensitive saliency detection via multi level rank analysis in intrinsic feature space	BIOMETRICS
9	Blind in painting using L0 and total variation regularization	IMAGE INPAINTING
10	Sorted consecutive local binary patter for texture classification	IMAGE INPAINTING
11	Background subtraction based on low rank and structured sparse decomposition	VISUAL SURVEILLANCE
12	Feature based lucas-kanade and active appearance models	VISUAL SURVEILLANCE
13	A novel image representation via local frequency analysis for illumination in variant stereo matching	VISUAL SURVEILLANCE
14	Efficient robust conditional random fields	VISUAL SURVEILLANCE
15	Silhouette analysis for human action recognition based	VISUAL

	on supervised temporal t-SNE and incremental learning	SURVEILLANCE
16	fast representation based on double orientation histogram for local image descriptors	FEATURE EXTRACTION
17	Egocentric daily activity recognition via multi task clustering	FEATURE EXTRACTION
18	Template free wavelet based detection of local symmetries	FEATURE EXTRACTION
19	PISA-pixel wise image saliency by aggregating complementary appearance contrast measure with edge preserving coherence	FEATURE EXTRACTION
20	Adaptive metric learning for saliency detection	FEATURE EXTRACTION
21	Saliency region detection via integrating diffusion based compactness and local contrast	FEATURE EXTRACTION
22	Removing camera shake via weighted fourier burst accumulation	FEATURE EXTRACTION
23	A practical one-shot multispectral imaging system using a	MULTISPECTRAL
24	Multi level discriminative dictionary learning with application to large scale image classification	MULTISPECTRAL
25	Inner and inter label propagation salient object detection in the wild	MULTISPECTRAL
26	DERF: Distinctive efficient robust features from biological modeling of the P ganglion cells	MULTISPECTRAL
27	SLED: semantic label embedding dictionary representation for multilevel image annotation	MULTISPECTRAL
28	GCs de color gradient correlation similarity for efficient contrast preserving de colorization	MULTISPECTRAL
29.	Color correction using root polynomial regression	MULTISPECTRAL
30	Statistical model of JPEG noises and its application in quantization step estimation	MULTISPECTRAL
31	Double line image rotation	MULTISPECTRAL
32	Approximation and compression with sparse orthonormal transforms	IMAGE COMPRESSION

33	High dynamic range image compression by optimizing tone mapped image quality index	IMAGE COMPRESSION
34	Compressive bilateral filtering	IMAGE COMPRESSION
35	Stochastic blind motion deblurring	IMAGE DEBLURRING
36	Adaptive image denoising by targeted databases	IMAGE DENOISING
37	Image denosing by exploring external and internal correlations	IMAGE DENOISING
38	Multi scale image blind denoising	IMAGE DENOISING
39	Depth reconstruction from sparse samples : representation algorithm and sampling	IMAGE RECONSTRUCTION
40	Continuous depth map reconstruction from light fields	IMAGE RECONSTRUCTION
41	Fractal analysis for reduced reference image quality assessment	IMAGE QUALITY ASSESSEMENT
42	No-reference image sharpness assessment in auto regressive parameter space	IMAGE QUALITY ASSESSEMENT
43	Full reference quality assessment of stereoscopic images by learning binocular receptive field properties	IMAGE QUALITY ASSESSEMENT
44	A feature enriched completely blind image quality evaluator	IMAGE QUALITY ASSESSEMENT
45	Perceptual quality assessment for multi exposure image fusion	IMAGE FUSION
46	Objective quality assessment for multi exposure multi focus image fusion	IMAGE FUSION
47	Extracting 3d layout from a single image using global image structures	3D VIDEO AND MODELING
48	Head pose estimation for a 2d face image using 3d face morphing with depth parameters	3D VIDEO AND MODELING
49	Video tracking using learned hierarchical features	3D VIDEO AND

		MODELING
50	Spatio temporal saliency detection from video sequences based on random walk with restart	3D VIDEO AND MODELING
51	Video deraining and desnowing using temporal correlation and low	3D VIDEO AND MODELING
52	Video in painting with short term windows application to object removal and error concealment	3D VIDEO AND MODELING
53	Attentive monitoring of multi video streams driven by a Bayesian foregoing strategy	3D VIDEO AND MODELING
54	Online kernel slow feature analysis for temporal video segmentation and tracking	IMAGE SEGMENTATION
55	Random geometric prior forest for multi class object segmentation	IMAGE SEGMENTATION
56	Robust video object co segmentation	IMAGE SEGMENTATION
57	Face recognition across non uniform motion blur illumination and pose	SECURITY
58	High resolution face verification using pore scale facial features	SECURITY
59	Multi task pose in variant face recognition	SECURITY
60	Neural face classification using personalized appearance models for fast and robust emotion detection	SECURITY
61	Learning compact features descriptor and adaptive matching framework for face recognition	SECURITY
62	Single image super resolution based on gradient profile sharpness	SUPER RESOLUTION
63	Learning multi level linear mappings for efficient single image super resolution	SUPER RESOLUTION
64	Depth super resolution by transduction	SUPER RESOLUTION
65	Enhancement of textural differences based on morphological component analysis	IMAGE ENHANCEMENT

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- PROJECT IEEE BASE PAPER/ REFERENCE PAPER
- PROJECT PRESENTATION IN PPT FORMAT
- PROJECT REVIEW ASSISTANCE FOR VIVA
- PROJECT DIAGRAMS
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- PROJECT REPORT
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- PROJECT EXPLANATION
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- INTERNATIONAL JOURNAL/CONFERENCE PUBLISHING
- PROJECT ACCEPTANCE LETTER
- PROJECT COMPLETION CERTIFICATE

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2015 – 2016 SIGNAL B.TECH IEEE TITLES

S.NO	Title	Domain
66	Speech Emotion Verification Using Emotion Variance Modeling and Discriminated Scale-Frequency Maps	PITCH ESTIMATION
67	Perceptual Reproduction of Spatial Sound Using Loudspeaker-Signal-Domain Parameterizations	PITCH ESTIMATION
68	SNR-Invariant PLDA Modeling in Nonparametric	PITCH ESTIMATION

	Subspace for Robust Speaker Verification	
69	High-Precision Harmonic Distortion Level Measurement of a Loudspeaker Using Adaptive Filters in a Noisy Environment	PITCH ESTIMATION
70	Combining Spectral and Temporal Representations for Multi pitch Estimation of Polyphonic Music	PITCH ESTIMATION
71	Nonlinear Acoustic Echo Cancellation Using Voltage and Current Feedback	PITCH ESTIMATION
72	Spoken Content Retrieval—Beyond Cascading Speech Recognition with Text Retrieval	PITCH ESTIMATION
73	Convex Weighting Criteria for Speaking Rate Estimation	SPEECH ENHANCEMENT
74	Low-Complexity Direction-of-Arrival Estimation Based on Wideband Co-Prime Arrays	SPEECH ENHANCEMENT
75	An Acoustic-Phonetic Model of F0 Likelihood for Vocal Melody Extraction	SPEECH ENHANCEMENT
76	Data Augmentation for Deep Neural Network Acoustic Modeling	SPEECH ENHANCEMENT
77	Efficient Synthesis of Room Acoustics via Scattering Delay Networks	SPEECH ENHANCEMENT
78	Noise Power Spectral Density Estimation Using Max NSR Blocking Matrix	SPEECH ENHANCEMENT
79	Multi-Channel Linear Prediction-Based Speech De reverberation With Sparse Priors	SPEECH ENHANCEMENT
80	Harmonic Phase Estimation in Single-Channel Speech Enhancement Using Phase Decomposition and SNR Information	SPEECH TONE ENHANCEMENT

81	Joint Detection and Estimation of Speech Spectral Amplitude Using Non continuous Gain Functions	SPEECH TONE ENHANCEMENT
82	Hierarchical Pitman–Yor–Dirichlet Language Model	SPEECH TONE ENHANCEMENT
83	Phase Estimation in Single-Channel Speech Enhancement: Limits-Potential	SPEECH TONE ENHANCEMENT
84	Compact Multi view Representation of Documents Based on the Total Variability Space	SPEECH TONE ENHANCEMENT
85	Extractive Broadcast News Summarization Leveraging Recurrent Neural Network Language Modeling Techniques	SPEECH TONE ENHANCEMENT
86	Use of Micro-Modulation Features in Large Vocabulary Continuous Speech Recognition Tasks	SPEECH TONE ENHANCEMENT
87	A GPU Implementation of an Explicit Compact FDTD Algorithm with a Digital Impedance Filter for Room Acoustics Applications	SPEECH TONE ENHANCEMENT
88	Summarization Based on Task-Oriented Discourse Parsing	SPEECH TONE ENHANCEMENT
89	Disambiguating Discourse Connectives for Statistical Machine Translation	SPEECH TONE ENHANCEMENT
90	Block-Skew-Circulant Matrices in Complex-Valued Signal Processing	SPEECH TONE ENHANCEMENT
91	Maximum Entropy PDF Design Using Feature Density Constraints: Applications in Signal Processing	SPEECH TONE ENHANCEMENT

92	Signal processing for two dimensional magnetic recording using Voronoi model averaged statistics	SPEECH TONE ENHANCEMENT
93	Efficiency of the signal processing algorithms using signal-flow based mapping tool	SPEECH TONE ENHANCEMENT
94	Spatial Source Subtraction Based on Incomplete Measurements of Relative Transfer Function	SPEECH TONE ENHANCEMENT
95	Optimal Coding of Generalized-Gaussian-Distributed Frequency Spectra for Low-Delay Audio CoderWith Powered All-Pole Spectrum Estimation	SPEECH TONE ENHANCEMENT
96	Audio Fingerprinting for Multi-Device Self-Localization	AUDIO PROCESSING
97	Primary-Ambient Extraction Using Ambient Spectrum Estimation for Immersive Spatial Audio Reproduction	AUDIO PROCESSING
98	Audio Watermarking Based on Fibonacci Numbers	AUDIO PROCESSING

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2015 – 2016 COMMUNICATION B.TECH IEEE TITLES

S.NO	Title	Domain
99	Energy-Efficient Broadcast in Mobile Networks Subject to Channel Randomness	4D DIGITAL COMMUNICATION
100	Asymptotic Rate Analysis of Downlink Multi-User Systems With Co-Located and Distributed Antennas	4D DIGITAL COMMUNICATION
101	QoS and Energy Efficient Resource Allocation in Uplink SC-FDMA Systems	4D DIGITAL COMMUNICATION
102	Analog Network Coding in the Multiple Access Relay Channel: Error Rate Analysis and Optimal Power Allocation	4D DIGITAL COMMUNICATION
103	Backhaul-Aware User Association in FiWi Enhanced LTE-A Heterogeneous Networks	4D DIGITAL COMMUNICATION
104	Outage Equivalence of Opportunistic Relaying and Selection Cooperation in Presence of Co-Channel Interference	4D DIGITAL COMMUNICATION
105	Modeling and Analysis of an Extended Access Barring Algorithm for Machine-Type Communications in LTE-A Networks	4D DIGITAL COMMUNICATION
106	Joint Pre coder and Receiver Design for AF Non-	4D DIGITAL COMMUNICATION

	Simultaneous Two-Way MIMO Relaying	
107	Optimal Design of Energy-Efficient Multi-User MIMO Systems: Is Massive MIMO the Answer	4D DIGITAL COMMUNICATION
108	A reduced complexity MIMO decoder	4D DIGITAL COMMUNICATION
109	A Fully Integrated High Efficiency RF Power Amplifier for WLAN Application in 40 nm Standard CMOS Process	4D DIGITAL COMMUNICATION
110	Adaptive uniform channel decomposition in MU-MIMO-OFDM: application to IEEE 802.11ac	4D DIGITAL COMMUNICATION
111	Multi-User OFDM MIMO in IEEE 802.11ac: A Simulation Framework to Analysis and Synthesis	MIMO-OFDM
112	Preamble generation method to improve timing estimation for OFDM system using training sequence	MIMO-OFDM
113	Effect of ambient noise on OFDM signals	MIMO-OFDM
114	Maximizing achievable rate for improved AF-OFDM cooperative transmission	MIMO-OFDM
115	OFDM channel estimation and equalization using multi scale independent component analysis	MIMO-OFDM
116	OFDM-based overlay cognitive radios with improved spectral leakage suppression for future generation communications	MIMO-OFDM
117	A space-frequency parallel ICI cancellation technique for OFDM systems	MIMO-OFDM
118	On the Performance of Precoded OFDM Systems in the Presence of Jamming	MIMO-OFDM
119	Upper Bound on the Ergodic Rate Density of ALOHA Wireless Ad-Hoc Networks	WIRELESS COMUNICATION
120	TIGHT: A Cross-Layer RF Distance Bounding Realization for Passive Wireless Devices	WIRELESS COMUNICATION

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S.NO	TITLE	DOMAIN
1	windows media player control by using Gesture recognition	VIRTUAL CONTROL
2	Comparative Study of Different Image fusion Techniques	IMAGE FUSION

3	Separated Component-Based Restoration of Speckled SAR Images	SAR IMAGE PROCESSING
4	Multispectral Image Denoising With Optimized Vector Bilateral Filter	IMAGE DENOISING
5	Novel Speed-Up Strategies for Non-Local Means Denoising With Patch and Edge Patch Based Dictionaries	IMAGE DENOISING
6	Gradient Histogram Estimation and Preservation for Texture Enhanced Image Denoising	IMAGE DENOISING
7	Efficient Segmentation Methods for Tumor Detection in MRI Images	IMAGE DENOISING
8	Super Resolution Image Generation Using Wavelet Domain Interpolation With Edge Extraction via a Sparse Representation	IMAGE DENOISING
9	Segmentation of Blood Vessels and Optic Disc in Retinal Images	IMAGE DENOISING
10	Improving Degraded Document Images Using Binarization Technique	APPLICATION OCR
11	Video Distortion Alleviation Using Region Based DT-CWT Fusion	VISUAL SURVEILLANCE
12	Face Detection for Human Identification in Surveillance	SECURITY
13	Robust Face Recognition from Multi-View Videos	SECURITY
14	Hierarchical Prediction and Context Adaptive Coding for Lossless Color Image Compression	SECURITY

15	An Analytical Model for Synthesis Distortion Estimation in 3D Video	SECURITY
16	Phase-Based Binarization of Ancient Document Images: Model and Applications	SECURITY
17	Text Extraction from Live Captured Image with Diversified Background using Edge Based & K Means Clustering	SECURITY
18	Parametric Blur Estimation for Blind Restoration of Natural Images: Linear Motion and Out-of-Focus	SECURITY
19	Performance Analysis of Image Fusion Algorithms using HAAR Wavelet	SECURITY
20	Advanced Survey On Face Detection Techniques In Image Processing	SECURITY
21	Saliency-Aware Video Compression	VIDEO PROCESSING
22	A Real Time Approach for Secure Text Transmission Using VideoCryptography	CRYPTOGRAPHY
23	A new secure image transmission technique via secret fragment visible mosaic images by nearly reversible color transformations	CRYPTOGRAPHY
24	A new iterative tri class thresholding technique in image segmentation	IMAGE SEGMENTATION
25	Privacy protection of medical data using histogram shifting based reversible data hiding	STEGANOGRAPHY
26	Shadow Detection of Man-Made Buildings in High-Resolution Panchromatic Satellite Images	STEGANOGRAPHY

27	Reversible Data Hiding In Encrypted Images by XOR Ciphering Technique	STEGANOGRAPHY
28	Face recognition for web-scale datasets	STEGANOGRAPHY
29	Segmentation-Driven Image Registration-Application to 4D DCE-MRI Recordingsof the Moving Ultra Sonic Baby's	4D PROCESSING
30	Block Based Robust Blind Image Watermarking Using Discrete Wavelet Transform	4D PROCESSING
31	Context-Aware Discovery of Visual Co-Occurrence Patterns	4D PROCESSING
32	A Novel Secure Image Steganography Method Based On Chaos Theory In Spatial Domain	4D PROCESSING
33	Color Image Super Resolution by Wavelet Transform using Interpolation and Fusion	SUPER RESOLUTION
34	An-Automated-Blood-Vessel-Segmentation-Algorithm-Using-Histogram-Equalization-and-Automatic-Threshold-Selection	SUPER RESOLUTION
35	A Vehicle License (Number) Plate Recognition System	SUPER RESOLUTION
36	Privacy Protection of Medical Data using Histogram Shifting based Reversible Data Hiding	SUPER RESOLUTION
37	Novel Approach for Vehicle Detection in Dynamic Environment Based on Monocular Vision	SUPER RESOLUTION

38	A Joint FED Watermarking System Using Spatial Fusion for Verifying the Security Issues	WATERMARKING
39	Identification of Bacillus species using Support Vector	WATERMARKING

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S.NO	TITLE	DOMAIN
40	Atrial Electrical Activity Detection Using linear Combination of 12-Lead ECG Signals	BIO-MEDICAL
41	Particle Swarm Optimization Applied to EEG Source Localization of Somato sensory Evoked Potentials	BIO-MEDICAL
42	Quantum Neural Network-Based EEG Filtering for a Brain–Computer Interface	BIO-MEDICAL
43	Stochastic Analysis of the LMS and NLMS Algorithms for Cyclostationary White Gaussian Inputs	NOISE REMOVAL
44	Stochastic analysis of the least mean fourth algorithm for non-stationary white Gaussian inputs	NOISE REMOVAL
45	Speaker Identification using Mel Frequency Cepstral Coefficient and BPNN	NOISE REMOVAL

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S.NO	TITLE	DOMAIN
46	Generalized Inverse Aided PAPR-Aware Linear PrecoderDesign for MIMO-OFDM System	MIMO-OFDM
47	wireless information and power transfer inmulti user OFDM SYSTEMS	MIMO-OFDM
48	An Error-Minimizing Framework for Localizing Jammers in Wireless Networks	WIRELESS
49	Modeling and Estimation of Transient Carrier Frequency Offset in Wireless Transceivers	WIRELESS

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