

MATLAB PROJECT TOPICS-2015

COMMUNICATION TOPICS

Year 2007

- ✚ An OFDM-CDMA scheme for High Data Rate UWB applications
- ✚ Time-Domain Signal Detection Based on Second-Order Statistics for MIMO-OFDM Systems.
- ✚ Sequence Synchronization in a wideband CDMA System

Year 2008

- ✚ A Token-Based Scheduling Scheme for WLANs Supporting Voice/Data Traffic and its Performance Analysis
- ✚ Adaptive Radio Resource Allocation for Downlink OFDMA/SDMA Systems with Multimedia Traffic
- ✚ Coding Schemes Applied to Peak-to-Average Power Ratio (PAPR) Reduction in OFDM Systems
- ✚ Cooperative Sensing for Primary Detection in Cognitive Radio
- ✚ Design and Analysis of Bit Interleaved Coded Space-Time Modulation
- ✚ Enhancing MB-OFDM Throughput with Dual Circular 32-QAM
- ✚ Fast and Efficient QoS-Guaranteed Adaptive Transmission Algorithm in the Mobile WiMAX System
- ✚ Filter Bank Spectrum Sensing for Cognitive Radios
- ✚ Joint Optimum Linear Precoding and Power Control Strategies for Downlink MC-CDMA Systems
- ✚ Efficient Spatial Covariance Estimation for Asynchronous Co-channel Interference Suppression in MIMO-OFDM Systems
- ✚ Power Allocation for Two Different Traffics in Layered MIMO Systems
- ✚ Performance Evaluation of the WiMedia PHY in WPAN Environments and Efficiency Improvement by Application of LDPC Codes
- ✚ Variable Sub-carrier in OFDM to Reduce the ICI Due to Carrier Frequency Offset and IQ Imbalance

Year 2009

- ✚ Ranging With Ultrawide Bandwidth Signals in Multipath Environments
- ✚ Semisoft Handover Gain Analysis Over OFDM-Based Broadband Systems
- ✚ Ultra-Wide-Band Propagation Channels
- ✚ Pulsed-OFDM Modulation for Ultrawideband Communications
- ✚ Grouping Technique for Cooperative Spectrum Sensing in Cognitive Radios
- ✚ Implementation of the least squares channel estimation algorithm for MIMO-OFDM systems
- ✚ Sequential Detection for Multiuser MIMO CDMA Systems with Single Spreading Code Per User
- ✚ A Multicode Approach for High Data Rate UWB System Design
- ✚ Replacement of Spectrum Sensing in Cognitive Radio
- ✚ Variance-Reduced Partial Parallel Interference Cancellation for MC-CDMA Uplink Systems
- A Closed-Form Blind CFO Estimator Based on Frequency Analysis for OFDM Systems
- ✚ Eigenvalue based Spectrum Sensing Algorithms for Cognitive Radio
- ✚ A New Parameter for UWB Indoor Channel Profile Identification

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- ✚ Cognitive Radio Sensing Architecture and A Sensor Selection Case Study
- ✚ Cooperative Spectrum Sensing with Cluster-Based Architecture in Cognitive Radio Networks
- ✚ Efficient Power Allocation for Coded OFDM Systems
- ✚ Measurement Based Channel-Adaptive Video Streaming for Mobile Devices over Mobile WiMAX
- ✚ Sparsity-Embracing Multiuser Detection for CDMA Systems with Low Activity Factor
- ✚ Analysis and Comparison of Clipping Techniques for OFDM Peak-to-Average Power Ratio Reduction
- ✚ Error control coding in wireless sensor networks

Year 2010

- ✚ Bandwidth Exchange: An Energy Conserving Incentive Mechanism for Cooperation
- ✚ Blind Matched Filtering for Multiple Input Multiple Output Transceivers
- ✚ Estimation of Cubic Nonlinear Bandpass Channels in Orthogonal Frequency-Division Multiplexing Systems
- ✚ Error-Resilient H.264/AVC Video Transmission Using Two-Way Decodable Variable Length Data Block
- ✚ Simplified Multiaccess Interference Reduction for MC-CDMA With Carrier Frequency Offsets
- ✚ Optical Communications Performance of Hybrid 34-Meter Microwave Antennas
- ✚ Performance Analysis of Distributed Decision Fusion Using A Censoring Scheme in Wireless Sensor Networks
- ✚ Gradient Descent Bit Flipping Algorithms for Decoding LDPC Codes
- ✚ Efficacy of Multiband OFDM Approach in High Data Rate Ultra WideBand WPAN Physical Layer Standard using Realistic Channel Models
- ✚ Carrier Frequency Offsets Problem in DCT-SC-FDMA System
- ✚ Signal to Interference Ratio Based Handoff Management for Next-Generation Wireless Systems
- ✚ Anti-Phishing detection of phishing attacks using Genetic Algorithm

Year 2011

- ✚ Low complexity PTS algorithm based on gray code and its FPGA implementation
- ✚ Performance Analysis of MIMO-OFDM System Using QOSTBC Code Structure for M-QAM
- ✚ Dynamic Dwell Timer for Hybrid Vertical Handover in 4G Coupled Networks
- ✚ Exploiting Sparse User Activity in Multiuser Detection
- ✚ IIR system identification using cat swarm optimization
- ✚ Peak to Average Power Ratio (PAPR) Reduction in OFDM for a WLAN network Using SLM Technique
- ✚ Suppression of Narrowband Interference in impulse radio based high data rate UWB WPAN communication system using NLOS Channel Model
- ✚ Digital Fractional Order Savitzky-Golay Differentiator
- ✚ A New Algorithm for Power Allocation in MIMO-OFDM Systems with a Beam-forming Scheme
- ✚ Poly:A reliable and energy efficient topology control protocol for wireless

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- ✚ High user capacity collaborative code-division multiple access
- ✚ Phishing Website Detection and Optimization using Particle Swarm Optimization

Year 2012

- ✚ Analysis and Design of Coding and Interleaving in a MIMO-OFDM Communication System
- ✚ Optimum Clustered Pilot Sequence for OFDM Systems under Rapidly Time-Varying Channel
- ✚ Performance Evaluation of Complex Wavelet Packet Modulation (CWPM) System over Multipath Rayleigh Fading Channel
- ✚ Two-Way Amplify-and-Forward MIMO Relay Networks with Antenna Selection
- ✚ A Frequency Offset Estimation and Compensation Scheme for MB-OFDM UWB Modem
- ✚ Analysis and Design of Coding and Interleaving in a MIMO-OFDM Communication System
- ✚ Anti-Phishing Techniques:A Review

Year 2013

- ✚ Adaptive resource allocation for downlink grouped MC-CDMA systems with power and BER constraints
- ✚ Selfish Attacks and Detection in Cognitive Radio Ad-Hoc Networks
- ✚ An Evolving Graph-Based Reliable Routing Scheme for VANETs

Year 2014

- ✚ A Review of Exposure and Avoidance Techniques for Phishing Attack
- ✚ Comparative Analysis of FBMC and OFDM Multicarrier Techniques for Wireless Communication Networks
- ✚ Review of Phishing Detection Techniques

Year 2015

- ✚ Survey on Phishing Attacks
- ✚ Performance of two dimensional asymmetrically and symmetrically clipping optical OFDM in AWGN
- ✚ Comparative analysis of the BER performance of DWT OFDM over that of FFT OFDM in presence of phase noise
- ✚ OFDM-Modulated Dynamic Coded Cooperation in Underwater Acoustic Channels
- ✚ Underwater communication implementation with OFDM
- ✚ A Survey on Channel Estimation in MIMO-OFDM Systems
- ✚ Relative Analysis of Transceiver Diversity and Channel Estimation of MIMO OFDM
- ✚ On the Sum Capacity of the Gaussian X Channel in the Mixed Interference Regime
- ✚ Min-Max Approximation of Transfer Functions With Application to Filter Design
- ✚ New Robust Estimators of Correlation and Weighted Basis Pursuit
- ✚ MIO:Enhancing Wireless Communications Security Through Physical Layer Multiple Inter-Symbol Obfuscation

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Others

- ✚ McMAC: A Parallel Rendezvous Multi-Channel MAC Protocol
- ✚ Performance of Coded Multi-Carrier DS-CDMA systems in Multi-path fading channels

IMAGE PROCESSING TOPICS

- ✚ Support vector machine based multi-view face detection and recognition-2004
- ✚ Fingerprint Feature Extraction Based Discrete Cosine Transformation (DCT)-2006
- ✚ Intensified fuzzy clusters for classifying plant, soil, and residue regions of interest from color images
- ✚ Determination of Minutiae Scores for Fingerprint Image Applications
- ✚ MRI brain image segmentation by multi-resolution edge detection and region selection
- ✚ Recognition of human actions using motion history information extracted from the compressed video
- ✚ Automated Classification of fMRI Data Employing Trial
- ✚ Complex Wavelets and its application to Image Fusion
- ✚ Genetic Algorithms for the Unsupervised Classification of Satellite Images

Year 2007

- ✚ Color Image Segmentation Based on Mean Shift and Normalized Cuts
- ✚ Hierarchical contour matching for dental X-ray radiographs
- ✚ An Improving Model Watermarking with Iris Biometric Code
- ✚ Lossless Video Sequence Compression Using Adaptive Prediction
- ✚ A Leaf Recognition Algorithm for Plant Classification Using Probabilistic Neural Network

Year 2008

- ✚ Active Learning Methods for Interactive Image Retrieval
- ✚ Detecting Dominant Motions in Dense Crowds
- ✚ Personal Authentication Based on Iris Texture Analysis
- ✚ Robust Image Segmentation Algorithm Using Fuzzy Clustering Based on Kernel-Induced Distance Measure
- ✚ Wearable Monitoring of Seated Spinal Posture
- ✚ Design of a Distributed Traffic Monitoring System and Algorithm based on Web-camera
- ✚ VisualRank: Applying PageRank to Large-Scale Image Search
- ✚ Watermarking Relational Databases using Optimization Based Techniques
- ✚ Fingerprint Verification Using SIFT Features
- ✚ A Lossless Compression Scheme for Bayer Color Filter Array Images
- ✚ Motion-Tracking for Hands-Free Mouse-Pointer Manipulation
- ✚ Face Tracking and Recognition with Visual Constraints in Real-World Videos
- ✚ An a contrario approach for outliers segmentation application to multiple sclerosis in MRI
- ✚ An Unsupervised Technique Based on Morphological Filters for Change Detection in Very High Resolution Images

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- ✚ A Novel Segmentation Algorithm for Side-scan Sonar Imagery with Multi-Object

Year 2009

- ✚ A Fast Image Compression Algorithm Based on SPIHT
- ✚ Application of Support Vector Machine and Genetic Algorithm for Improved Blood Cell Recognition
- ✚ Reconstruction Of Underwater Image By BISPECTRUM
- ✚ Combined Wavelet-Domain and Motion-Compensated Video Denoising Based on Video Codec Motion Estimation Methods
- ✚ Artificial Neural Network Based Automatic Face Parts Prediction System from Only Fingerprints
- ✚ A Histogram Modification Framework and Its Application for Image Contrast Enhancement
- ✚ New Statistical Detector for DWT-Based Additive Image Watermarking Using the Gauss-Hermite Expansion
- ✚ Fast Query Point Movement Techniques for Large CBIR Systems.
- ✚ A Video Coding Scheme Based on Joint Spatiotemporal and Adaptive Prediction
- ✚ The Global K-Means Algorithm for Clustering in Feature Space
- ✚ Towards Handwritten Mathematical Expression Recognition.
- ✚ Content-Based Classification and Segmentation of Mixed Type Audio by Using MPEG Features
- ✚ ECG Arrhythmia Classification with Support Vector Machines and Genetic Algorithm

Year 2010

- ✚ Face Verification across Age Progression using Discriminative Methods
- ✚ Frequency Compounding for Ultrasound Freehand Elastography
- ✚ Satellite Image Resolution Enhancement Using Complex Wavelet Transform
- ✚ Video sensor network for real-time traffic monitoring and surveillance
- ✚ Error-Resilient H.264/AVC Video Transmission Using Two-Way Decodable Variable Length Data Block
- ✚ IRIS Recognition Using Neural Network
- ✚ A Secure Iris Image Encryption Technique Using Bio-Chaotic Algorithm
- ✚ Relative Radiometric Correction of Cloudy Multitemporal Satellite Imagery
- ✚ Region Duplication Detection Using Image Feature Matching
- ✚ Content Based Image Retrieval using Hierarchical and K-Means Clustering Techniques
- ✚ A rapid 3D seed-filling algorithm based on scan slice

Year 2011

- ✚ A Point Feature-based Cylindrical Image Mosaic Method
- ✚ Image Mosaics Algorithm Based on Feature-Block Matching
- ✚ Modeling and Formalization of Fuzzy Finite Automata for Detection of Irregular Fire Flames
- ✚ Real-time Sign Language Recognition based on Neural Network Architecture
- ✚ Improved Biometric Recognition and Identification of human IRIS patterns using Neural Networks.

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- ✚ A robust detection algorithm for copy-move forgery in digital images
- ✚ An Optimal Data Hiding Scheme With Tree-Based Parity Check
- ✚ A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting
- ✚ Matching Forensic Sketches to Mug Shot Photos
- ✚ Automated classification of discrete human thoughts using functional magnetic resonance imaging (fMRI)
- ✚ Automatic Road Detection Using MCSC
- ✚ Dental biometrics Human identification based on teeth
- ✚ Detection of Parked Vehicles Using Spatiotemporal maps
- ✚ Text From Corners a Novel Approach to Detect Text and Caption in Videos

Year 2012

- ✚ Artifacts Removal and Edge Detection of Digitally Compressed Images
- ✚ Gender Recognition from Face Images with Local WLD Descriptor
- ✚ Drowsiness Detection based on Eye Movement, Yawn Detection and Head Rotation
- ✚ Index Codes for Multibiometric Pattern Retrieval
- ✚ A Bayesian Technique for Image Classifying Registration
- ✚ A Joint Encryption Watermarking System for erifying the Reliability of Medical Images
- ✚ Framelet-Based Blind Motion Deblurring From a Single Image
- ✚ Image Segmentation using Fuzzy Rule Based
- ✚ Index Codes for Multibiometric Pattern Retrieval
- ✚ In-painting approach to repair cracked images
- ✚ Multistage Image Clustering and Segmentation with Normalised Cuts

Year 2013

- ✚ Image steganography in DWT domain using double-stepping with RSA encryption
- ✚ Spine Image Fusion via Graph Cuts
- ✚ Heterogeneous Face Recognition Using Kernel Prototype Similarities
- ✚ 3D Face Recognition under Expressions,Occlusions, and Pose Variations
- ✚ A Secure Image Steganography Based on RSA Algorithm and Hash-LSB Technique
- ✚ Detection and Removal of Cracks in Digitized Paintings
- ✚ Emotion recognition from geometric facial features using self-organizing map
- ✚ Image Adaptive Enhancement Strategy Based on Neural Network
- ✚ Cellular Automata for unsupervised remotely sensed data classification
- ✚ Computerized Detection of Lung Nodules by Meansof “Virtual Dual-Energy” Radiography
- ✚ Separable Reversible Data Hiding Using Rc4 Algorithm
- ✚ Superpixel Classification Based Optic Disc and Optic Cup Segmentation for Glaucoma Screening
- ✚ Video Object Tracking in the Compressed Domain Using Spatio-Temporal Markov Random Fields

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- ✚ Wavelet-Based ECG Steganography for Protecting Patient Confidential Information in Point-of-Care Systems

Year 2014

- ✚ Image Fusion Based On Wavelet Transform
- ✚ Localization of License Plate Number Using Dynamic Image Processing Techniques and Genetic Algorithms
- ✚ A New Secure Image Transmission Technique via Secret-Fragment-Visible Mosaic Images by Nearly Reversible Color Transformations
- ✚ Data Hiding in Encrypted H.264/AVC Video Streams by Codeword Substitution
- ✚ Detection of Lung Cancer using Sputum Image Segmentation
- ✚ An ultrasound image enhancement method using local gradient based fuzzy similarity
- ✚ Content Based Image Retrieval Using Interactive Genetic Algorithm
- ✚ Satellite Image Fusion using Fast Discrete Curvelet Transforms

Year 2015

- ✚ Second Facial Expression Recognition and Analysis Challenge
- ✚ Multi-view Face Detection Using Deep Convolutional Neural Networks
- ✚ A Review on-Image Fusion using Wavelet Transform
- ✚ Automatic Vehicle Number Plate Recognition for Vehicle Parking Management System
- ✚ Improving Dermoscopy Image Classification Using Color Constancy
- ✚ Secure Binary Image Steganography Based on Minimizing the Distortion on the Texture

SIGNAL PROCESSING TOPICS

- ✚ Speech Emotion Recognition Based on HMM AND SVM-2005
- ✚ Improving the intelligibility of dysarthric speech-2007
- ✚ Content-Based Music Information Retrieval: Current Directions and Future Challenges-2008
- ✚ An Overview of Text-Independent Speaker Recognition: from Features to Supervectors-2009
- ✚ ECG Arrhythmia Classification with Support Vector Machines and Genetic Algorithm-2009
- ✚ Epileptic Seizure Detection in EEGs Using Time–Frequency Analysis-2009
- ✚ Speech Enhancement Using Harmonic Emphasis and Adaptive Comb Filtering-2010
- ✚ Implementing a Speech Recognition System Interface for Indian Languages-2010
- ✚ Calibration of Confidence Measures in Speech Recognition-2011
- ✚ Broad Acoustic Classification of Spoken Hindi Hybrid Paired Words using Artificial Neural Networks-2012
- ✚ Design and Development of a Malayalam to English Translator-2012
- ✚ Speech and Speaker Recognition System using Artificial Neural Networks and Hidden Markov Model-2012
- ✚ Multiclass epileptic seizure classification using time- frequency analysis of EEG signals-2012

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- ✚ Audio Watermarking Via EMD-2013
- ✚ Intelligibility enhancement of HMM generated speech in additive noise by modifying Mel cepstral coefficients to increase the glimpse proportion-2013
- ✚ Audio Steganography using RSA Algorithm and Genetic based Substitution method to Enhance Security-2014
- ✚ GA-based Approach with Reduced RSA Encryption Security for Audio Steganography-2014

NETWORKING TOPICS

- ✚ DUCHA: A New Dual-channel MAC Protocol for Multihop Ad Hoc Networks-2006
- ✚ Adaptive Routing in Dynamic Ad Hoc Networks-2008
- ✚ Cooperative MIMO-Beamforming For Multiuser Relay Networks-2009
- ✚ A Medium Access Control Scheme for TDD-CDMA Cellular Networks with Two-Hop Relay Architecture-2009
- ✚ Single-Link Failure Detection in All-Optical Networks Using Monitoring Cycles and Paths-2009
- ✚ A Matrix-Based Pairwise Key Establishment Scheme for Wireless Mesh Networks Using Pre Deployment Knowledge-2013
- ✚ A Clustering Routing Protocol for Energy Balance of Wireless Sensor Network based on Simulated Annealing and Genetic Algorithm-2014

The above listed topics are just for reference. If you have any new Ideas/Papers send to us at info@verilogcourseteam.com or Call +91 98942 20795.