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**SOFTWARE PROJECTS**

**JAVA \* J2EE \* J2ME**

**IEEE PROJECTS**

**in various Domains**

**Latest Projects, 2009 - 2010**

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## **We are offering IEEE & Non IEEE Projects in various Domains including**

- **Mobile Computing**
- **Networking**
- **Secure Computing**
- **Wireless Communication**
- **ADHOC / MANETS / Mesh Networks**
- **Grid Computing**
- **Software Engineering**
- **Image Processing**
- **Pattern Analysis**
- **Network Security**
- **Wireless Sensor Networks**
- **Data Mining**
- **Cryptography**
- **Learning Technologies**
- **Multimedia**
- **Knowledge and Data Engineering**
- **Web Applications**
- **Information Forensics and Security**
- **Communication Systems**

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## **PROJECT SUPPORTS & DELIVERABLES**

- **Project Abstract**
- **IEEE Paper**
- **PPT / Review Details**
- **Project Report**
- **Working Procedure/Screen Shots**
- **Materials & Books in CD**
- **Project Certification**

**All available Project  
Details in CD / DVD\***

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## **NETWORK SECURITY PROJECTS**

- **A Novel Approach for Computation-Efficient Rekeying for Multicast Key Distribution - 2009**
- **A New Reliable Broadcasting in Mobile Ad Hoc Networks - 2009**
- **A Hybrid Reliable Routing Technique (HRR) for Wireless Sensor Network - 2009**
- **Anonymity in Wireless Broadcast Networks - 2009**
- **Efficient Key Management in Mission-Critical Wireless Ad Hoc Networks - 2009**
- **Identifying Malevolent Packet loss while Congestion Occured - 2009**
- **Enhanced Communal Global, Local Memory Management for Effective Performance of Cluster Computing - 2008**
- **Elliptic Curve Cryptography based Threshold Cryptography Implementation for MANETs – 2007**

## **MOBILE COMPUTING PROJECTS**

- **A Flexible Privacy-Enhanced Location-Based Services System Framework and Practice – 2009**
- **Contention-Aware Performance Analysis of Mobility-Assisted Routing- 2009**
- **Opportunistic Scheduling with Reliability Guarantees in Cognitive Radio Networks – 2009**
- **Dynamics of Multiple-Seller and Multiple-Buyer Spectrum Trading in Cognitive Radio Networks A Game-Theoretic Modeling Approach - 2009**
- **Minimizing Recovery State in Geographic Ad Hoc Routing - 2009**

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- **RandomCast: An Energy-Efficient Communication Scheme for Mobile Ad Hoc Networks - 2009**
- **Evaluating Context Information Predictability for Autonomic Communication - 2009**
- **Mobility Increases the Capacity of Ad Hoc Wireless Networks - 2009**
- **Design of mobile electronic commerce system based on J2ME - 2009**
- **Multicasting with Localized Control in Wireless Ad Hoc Networks - 2009**
- **A Cross-Layer Framework for Association Control in Wireless Mesh Networks - 2009**
- **Cell Breathing Techniques for Load Balancing in Wireless LANs - 2009**
- **Wardrop Routing in Wireless Networks - 2009**
- **A Tabu Search Algorithm for Cluster Building in Wireless Sensor Networks - 2009**
- **Intrusion Detection in Homogeneous & Heterogeneous Wireless Sensor Networks - 2008**
- **Bandwidth Efficient Video Multicasting in Multiradio Multicellular Wireless Networks - 2008**
- **Bandwidth Estimation for IEEE 802.11 Based Ad Hoc Networks - 2008**
- **An Acknowledgment-based Approach for the Detection of Routing Misbehavior in MANETs – 2007**
- **A Location-Based Routing Method for Mobile Ad Hoc Networks – 2005**
- **Distributed Cache Updating for the Dynamic Source Routing Protocol – 2005**
- **Mobile Objects and Mobile Agents: The Future of Distributed Computing – 2004**

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## **ADHOC NETWORKS PROJECTS**

- **A Framework for the Capacity Evaluation of Multihop Wireless Networks - 2009**
- **Consistency Management Strategies for Data Replication in Mobile Ad Hoc Networks - 2009**
- **A Self Repairing Tree Topology Enabling Content based Routing in Mobile Ad Hoc Networks - 2007**
- **Benefit based Data Caching in Ad Hoc Networks – 2005**
- **A Novel Secure Communication Protocol for Ad Hoc Networks [SCP] – 2004**
- **Scalable Wireless Adapt Network Simulator Using XTC - 2004**
- **Location-Aided Routing (LAR) in Mobile Ad Hoc Networks – 2000**

## **PARALLEL & DISTRIBUTED COMPUTING PROJECTS**

- **Dynamic Routing with Security considerations - 2009**
- **An Architectural Framework for Accurate Characterization of Network Traffic - 2009**
- **Dynamic Search Algorithm in Unstructured Peer-to-Peer Networks - 2009**
- **Multipath Dissemination in Regular Mesh Topologies - 2009**
- **A Tree-Based Peer-to-Peer Network with Quality Guarantees – 2008**
- **Computation Efficient Multicast Key Distribution – 2008**
- **Efficient and Secure Content Processing and Distribution by Cooperative Intermediaries – 2008**
- **The Server Reassignment Problem for Load Balancing in Structured P2P Systems - 2008**
- **Quiver Consistent Object Sharing for Edge Services – 2008**

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- **Retrieving Files using Content based Searching & Displaying them in a Carousel View - 2007**
- **A New Operational Transformation Framework for Real-Time Group Editors – 2007**
- **A Fully Distributed Proactively Secure Threshold-Multisignature Scheme - 2007**
- **ODAM: An Optimized Distributed Association Rule Mining Algorithm – 2004**
- **Unified Network Monitoring For Web Technology – 2003**

## **NETWORKING PROJECTS**

- **Node isolation model and age-based neighbor selection in unstructured P2P networks – 2009**
- **A Multilayer Fault Localization Framework for IP over All-Optical Multilayer Networks - 2009**
- **Energy–Robustness Tradeoff in Cellular Network Power Control - 2009**
- **Entropy Based Adaptive Flow Aggregation - 2009**
- **Node Isolation Model and Age-Based Neighbor Selection in Unstructured P2P Networks - 2009**
- **Optimal Backpressure Routing for Wireless Networks with Multi-Receiver Diversity - 2009**
- **Long Time Neighbor Selection and Avoiding Node Separation from P2P Network – 2009**
- **Homogeneous and Heterogeneous Load balancing**
- **Distributed Subset Match in peer to Peer Network - 2009**
- **A Traffic Engineering Approach for Placement and Selection of Network Services - 2009**

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- **A Secure Routing against Byzantine Attacks for MANETs in Adversarial Environments - 2009**
- **Monitoring the application-layer DDOS attacks for popular websites - 2009**
- **NetQuest: A Flexible Framework for large-Scale Network Measurement - 2009**
- **Plexus: A Scalable Peer-to-Peer Protocol Enabling Efficient Subset Search - 2009**
- **A Hybrid Network Architecture for File Transfers - 2009**
- **Dual-Link Failure Resiliency through Backup Link Mutual Exclusion - 2008**
- **Minimizing File Download Time in Stochastic Peer-to-Peer Networks - 2008**
- **Rate & Delay Guarantees Provided By Close Packet Switches with Load Balancing - 2008**
- **A Geometric Approach to Improving Active Packet Loss Measurement - 2008**
- **Two Techniques for Fast Computation of Constrained Shortest Paths - 2008**
- **Performance of a Speculative Transmission Scheme for Scheduling Latency Reduction - 2008**
- **BRA Bi-directional Routing Abstraction for Asymmetric Mobile Ad Hoc Networks - 2008**
- **Securing User-Controlled Routing Infrastructures - 2008**
- **A near-optimal multicast scheme for mobile ad hoc networks using a hybrid genetic algorithm – 2006**
- **A Distributed Database Architecture for Global Roaming in Next-Generation Mobile Networks - 2004**
- **Authenticating Network Attached Storage – 2003**

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- **Modeling Peer-Peer File Sharing Systems – 2003**
- **ITP: An Image Transport Protocol for the Internet – 2002**
- **AI NET - A network that integrates ATM and IP - 2002**
- **Network Border Patrol For Congestion Collapse Preventing**
- **Dynamic Parallel Access to Replicated Content in the Internet - 2002**

## **IMAGE PROCESSING PROJECTS**

- **Adaptive Fuzzy Filtering for Artifact Reduction in Compressed Images and Videos - 2009**
- **Depth based 2D-3D combined scene images for 3D Multiview Displays - 2009**
- **Hierarchical Bayesian sparse image reconstruction with application to MRFM - 2009**
- **Image Enhancement for Fluid Lens Camera Based on Color Correlation - 2009**
- **Facial Recognition using Multisensor Images based on Localized Kernel Eigen Spaces - 2009**
- **Semi-Automatically Driven Color Demosaicking - 2009**
- **High-Dimensional Statistical Measure for Region-of-Interest Tracking - 2009**
- **Efficient Implementation for Spherical Flux Computation and its Application to Vascular Segmentation - 2009**
- **Structure & Texture Filling-In of Missing Image Blocks in Wireless Transmission & Compress – 2003**

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## **SOFTWARE ENGINEERING PROJECTS**

- **CHARMY: A Framework for Designing and Verifying Architectural Specifications - 2009**
- **Identification of Move Method Refactoring Opportunities - 2009**
- **Publishing and Discovering Atomicity - Equivalent Services - 2009**
- **A Hierarchical Model for Object-Oriented Design Quality Assessment - 2009**
- **Automatic Extraction of Heap Reference Properties in Object-Oriented Programs - 2009**
- **Variability and Reproducibility in Software Engineering: A Study of Four Companies that Developed the same System - 2009**
- **Automated Trace Analysis of Discrete-Event System Models**
- **Provable Protection against Web Application Vulnerabilities related to Session Data Dependencies – 2008**
- **Using the Conceptual Cohesion of Classes for Fault Prediction in Object Oriented Systems – 2008**

## **KNOWLEDGE & DATA ENGINEERING PROJECTS**

- **A Relation-Based Page Rank Algorithm for Semantic Web Search Engines - 2009**
- **Clustering and Sequential Pattern Mining of Online Collaborative Learning Data - 2009**
- **Online Scheduling Sequential Objects with Periodicity for Dynamic Information Dissemination - 2009**
- **Simple Efficient Load Balancing Algorithms for Peer-to-Peer Systems - 2009**
- **Exact Border-Based Approach for Hiding Sensitive Information - 2009**

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- Hierarchically Distributed Peer-To-Peer (HP2PC) Architecture and Clustering Algorithm - 2009
- A Relation-Based Page Rank Algorithm for Semantic Web Search Engines - 2009
- An Efficient Clustering Scheme to Exploit Hierarchical Data in Network Traffic Analysis – 2008
- Distributed Suffix Tree Overlay for Peer-to-Peer Search – 2008
- Probabilistic Group Nearest Neighbor Queries in Uncertain Databases – 2008
- A Signature Based Indexing Method for Efficient Content Based Retrieval of Relative Temporal Patterns - 2008
- Truth Discovery with Multiple Conflicting Information Providers on Web - 2008

## **COMMUNICATION ENGINEERING**

- Coalition Games with Cooperative Transmission A Cure for the Curse of Boundary Nodes in Selfish Packet-Forwarding Wireless Networks – 2009
- Increasing packet delivery in ad hoc on-demand distance vector (AODV) routing protocol – 2008

## **CRYPTOGRAPHY**

- Leveraging Identity-based Cryptography for Node ID Assignment in Structured P2P Systems – 2009 -
- Differential Power Analysis Attacks to Precharged Busses: A General Analysis for Symmetric-Key Cryptographic Algorithms – 2009

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## SECURE COMPUTING

- Flexible Rollback Recovery in Dynamic Heterogeneous Grid Computing – 2009 -
- The Design of a Generic Intrusion-Tolerant Architecture for Web Servers – 2009
- On the Security of an Efficient Time-Bound Hierarchical Key Management Scheme – 2009
  
- Adaptive Neural Network Tracking Control of MIMO Nonlinear Systems with Unknown Dead Zones and Control Directions – 2009 - NEURAL NETWORKS
- Computation of Performance Bounds for Real-Time Systems using Time Petri Nets – 2009 - INDUSTRIAL INFORMATICS
- Continuous Flow Wireless Data Broadcasting for High Speed Environments – 2009 – BROADCASTING
- A Reference Architecture for Scientific Workflow Management Systems and the VIEW SOA Solution – 2009 – SERVICE COMPUTING
- A Distributed System for Consuming Web Services and Caching their Responses in MANETs – 2009 – SERVICE COMPUTING
- E-Secure Transactions - Secure Electronic Data Interchange over Internet – 2005 – INTERNET COMPUTING
- Noise Reduction by Fuzzy Image Filtering – 2003 - FUZZY SYSTEMS
- Generalized Sequence-Based and Reverse Sequence-Based Models for Broadcasting Hot Videos – 2009 - MULTIMEDIA
- Segmentation-Driven Image Fusion based on Alpha-Stable modeling of Wavelet Coefficients – 2009 - MULTIMEDIA

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## **WIRELESS COMMUNICATIONS PROJECTS**

- **Efficient Multi-Party Digital Signature using Adaptive Secret Sharing for Low-Power Devices in Wireless Networks - 2009**
- **High Performance Cooperative Transmission Protocols Based on Multiuser Detection and Network Coding - 2009**
- **Multi-Service Load Sharing for Resource Management in the Cellular WLAN Integrated Network - 2009**
- **Novel Packet-Level Resource Allocation with Effective QOS Provisioning for Wireless Mesh Networks - 2009**
- **Single-Symbol ML Decodable Distributed STBCs for Partially-Coherent Cooperative Networks - 2009**
- **SIR Analysis and Interference Cancellation in Uplink OFDMA with Large Carrier Frequency Timing Offsets - 2009**
- **Study of Rough Set and Clustering Algorithm in Network Security Management - 2009**
- **A Statistical Model for Indoor office Wireless Sensor Channels - 2009**
- **Robust Cooperative Routing Protocol in Mobile Wireless Sensor Networks - 2009**

## **NEURAL NETWORKS PROJECTS**

- **Permitted and Forbidden Sets in Discrete-Time Linear Threshold Recurrent Neural Networks - 2009**
- **A New Projection-Based Neural Network for Constrained variational Inequalities - 2009**
- **Analysis of Survival Data having time-Dependent Covariates - 2009**
- **A Multitask Learning Model for Online Pattern Recognition - 2009**
- **A Self-Organized, Distributed and Adaptive Rule-Based Induction System - 2009**

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## **DATAMING PROJECTS**

- **Agent Mining: The Synergy of Agents and Data Mining - 2009**
- **Analysis Methods of Workflow Execution Data Based on Data Mining - 2009**
- **Data Mining in Hospital Information System for Hospital Management - 2009**
- **Application of Genetic Algorithm in Data Mining - 2009**
- **Subontology based Resource Management for Web based e-Learning - 2009**
- **Mining Electronic Medical Records for Patient Care Patterns - 2009**
- **Ranking and Suggesting Popular Items - 2009**
- **Predicting Missing Items in Shopping Carts - 2009**
- **Open Smart Classroom: Extensible and Scalable Learning System in Smart Space using Web Service Technology - 2009**
- **Approximate Distributed K-Means Clustering Over a Peer-to-Peer Network - 2009**
- **An Efficient Association Rule Mining Algorithm In Distributed Databases – 2008**
- **Distributed Data Mining in Credit Card Fraud Detection**

## **SIGNAL PROCESSING PROJECTS**

- **A Novel Subspace Approach for Cooperative Localization in Wireless Sensor Networks Using Range Measurements - 2009**
- **Efficient Design of Cosine-Modulated Filter Banks via Convex Optimization - 2009**
- **Frequency-Selective KYP Lemma, IIR Filter, and Filter Bank Design - 2009**

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## **DEPENDABLE & SECURE COMPUTING**

- Mimicry Attacks on Host-Based Intrusion Detection Systems
- Attacking DDOS at the Source - 2009
- A Precise Termination Condition of the Probabilistic Packet Marking Algorithm - 2008
- Controlling IP Spoofing Through Inter Domain Packet Filters - 2008
- Modeling & Automated Containment of Worms - 2008
- An Adaptive Programming Model for Fault Tolerant Distributed Computing – 2007
- Hybrid Intrusion Detection with Weighted Signature Generation over Anomalous Internet Episodes – 2007

## **GRID COMPUTING PROJECTS**

- Cooperative Secondary Authorization Recycling - 2009
- Dynamic Load Balancing and Job Replication in a Global-Scale Grid Environment - A Comparison - 2009
- Enhancing privacy and Authorization Control Scalability in the Grid through Ontologies - 2009
- Efficient Software-Based Encoding and Decoding of BCH Codes - 2009
- Grid Computing Platform for Secure Multi-Job operation - 2009
- On the Design of fault-Tolerant Scheduling Strategies using Primary-backup Approach for Computational Grids with Low Replication Costs - 2009
- PEACE: A Sophisticated Privacy-Enhanced yet Accountable Security Framework for Wireless Mesh Networks – 2009

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## **WIRELESS SENSOR NETWORKS PROJECTS**

- **Model-Based Techniques for Data Reliability in Wireless Sensor Networks – 2009**
- **Modeling Detection Latency with Collaborative Mobile Sensing Architecture – 2009**
- **Effects of Denial-of-Sleep Attacks on Wireless Sensor Network MAC Protocols - 2009**
- **EARQ: Energy Aware Routing for Real-Time and Reliable Communication in Wireless Industrial Sensor Networks – 2009**

## **PATTERN ANALYSIS & MACHINE INTELLIGENCE PROJECTS**

- **Offline Loop Investigation for Handwriting Analysis - 2009**
- **Semisupervised Learning of Hidden Markov Models via a Homotopy Method - 2009**
- **Framework for Performance Evaluation of Face, Text & Vehicle Detection and Tracking in Video: Data, Metrics & Protocol - 2009**
- **Face Recognition using Laplacian Faces – 2005**
- **Online Handwritten Script Recognition – 2004**

## **INFORMATION FORENSICS AND SECURITY PROJECT**

- **Network Topology against Distributed Denial of Service Attacks DDOS – 2006**
- **On the Implementation of the Discrete Fourier Transform in the Encrypted Domain - 2009**
- **SMOCK: A Scalable Method of Cryptographic Key Management for Mission-Critical Wireless Ad-Hoc Networks – 2009**

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## **WEB APPLICATION PROJECTS**

- **Fast Algorithms for Mining Association Rules - 2009**
- **Modeling and using imperfect Context Information - 2009**
- **Two Factor Authentication using Mobile Phones - 2009**

## **IEEE TRANSACTIONS ON COMPUTERS**

- **Collusive piracy prevention in P2P content delivery network – 2009**
- **Dynamic and Auto Responsive Solution for Distributed Denial-of-Service Attacks Detection in ISP Network - 2009**
- **SOBIEA Novel Super-node P2P Overlay Based on Information Exchange - 2009**
- **Development and Design of a new Logistics Information Management System - 2009**
- **An Authenticated Paradigm for Mobile Agent System in Online Examination – 2009**
- **A Concatenated Model for Video Frame Interpolation - 2009**
- **An Adaptive Extension of Combined 2D and 1D-Directional Filter Banks - 2009**
- **An Efficient Authentication Scheme for Digital Credentials - 2009**
- **An XML-Based ADL Framework for Automatic Generation of Multithreaded Computer Architecture Simulators - 2009**
- **Clone Detection and Removal for ErlangOTP within a Refactoring Environment - 2009**
- **Combined Image Plus Depth Seam Carving for Multiview 3D Images – 2009**

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- **Cross-layer Based Anomaly Detection in Wireless Mesh Networks - 2009**
- **Data Pruning-Based Compression using High Order Edge-Directed Interpolation - 2009**
- **Efficient Scheduling Algorithm for QOS Support in High Speed Downlink Packet Access Networks - 2009**
- **Enhancing the Scalability of IMS-based Presence Service for LBS Applications – 2009**
- **Guaranteed delivery for Geographical any Casting in wireless Multi-sink sensor and Sensor-Actor Networks - 2009**
- **Improving Partial Cover of Random Walks in Large-Scale Wireless Sensor Networks - 2009**
- **Introduction of First Passage Time (FPT) Analysis for Software Reliability and Network Security - 2009**
- **Method and Architecture Design for Motion Compensated Frame Interpolation in High-Definition Video Processing - 2009**
- **Model-Free Interval-Based Localization in Manets - 2009**
- **NNexus: An Automatic Linker for Collaborative Web-Based Corpora - 2009**
- **Node Presence Detection with Reduced Overhead - 2009**
- **Polyphase Interpretation of Empirical Image Interpolation - 2009**
- **Rate-Distortion Optimized Bitstream Extractor for Motion Scalability in Scalable Video Coding - 2009**
- **Resilient Multi-core Systems A Hierarchical Formal Model for N-variant Executions - 2009**
- **Stochastic Analysis of Spatial and Opportunistic Aloha - 2009**
- **The Digital Wallet Opportunities and Prototype - 2009**
- **Tree-on-DAG for Data Aggregation in Sensor Networks - 2009**

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- Differentiated Bandwidth Allocation with TCP Protection in Core Routers - 2009
- A Survey of Learning-Based Techniques of Email Spam Filtering - 2008
- BotMiner Clustering Analysis of Network Traffic for Protocol- and Structure-Independent Botnet Detection - 2008
- High Multiplicity Scheduling of File Transfers with Divisible Sizes of Multiple Classes of Paths – 2008
- Location-based Spatial Queries with Data Sharing in Wireless Broadcast Environments - 2008
- Packet caches on Routers the Implications of Universal Redundant Traffic Elimination – 2008
- Peertalk a Peer-to-Peer Multi-Party Voice-Over-IP System – 2008
- Protection of Database Security via Collaborative Inference Detection - 2008
- Active Queue Management for Fair Resource Allocation in Wireless Networks - 2008
- COACS: Co - Operative and adaptive caching system for MANETs - 2008
- Designing Less - Structured P2p Systems for the Expected High Churn - 2008
- Interaction of IPSS: Distributed Resource Allocation and Revenue Maximization - 2008
- Online Index Recommendations for High-Dimensional Databases Using Query Workloads - 2008
- Scalable & Efficient End-To-End Network Topology Inference – 2008
- A Software Defect Report and Tracking System in an Intranet
- Security in Large Networks Using Mediator Protocols – 2008

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- **An Agent based Intrusion Detection, Response and Blocking using signature Method in Active Net - 2007**
- **Predictive Job Scheduling in a Connection using Parallel Genetic Algorithm - 2007**
- **Benefit Based Data Caching In Ad Hoc Networks - 2006**
- **Image Transformation using Grid – 2006**
- **Building Intelligent Shopping Assistants Using Individual Consumer Models – 2005**
- **Application of BPCS Steganography to Wavelet Compressed Video – 2004**
- **Slow Start Algorithm Improvement of TCP Performance – 2004**
- **Towards Multimodal Interfaces for Intrusion Detection**
- **Incremental deployment service of Hop by hop multicast routing protocol – 2004**
- **Packet caches on Routers the Implications of Universal Redundant Traffic Elimination – 2008**
- **Peertalk a Peer-to-Peer Multi-Party Voice-Over-IP System – 2008**
- **Protection of Database Security via Collaborative Inference Detection - 2008**
- **Active Queue Management for Fair Resource Allocation in Wireless Networks - 2008**
- **COACS: Co - Operative and adaptive caching system for MANETs - 2008**
- **Designing Less - Structured P2p Systems for the Expected High Churn - 2008**
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- Predictive Job Scheduling in a Connection using Parallel Genetic Algorithm - 2007
- Benefit Based Data Caching In Ad Hoc Networks - 2006
- Image Transformation using Grid – 2006
- Building Intelligent Shopping Assistants Using Individual Consumer Models – 2005
- Application of BPCS Steganography to Wavelet Compressed Video – 2004
- Slow Start Algorithm Improvement of TCP Performance – 2004
- Towards Multimodal Interfaces for Intrusion Detection
- Incremental deployment service of Hop by hop multicast routing protocol – 2004
- A wireless distributed intrusion detection system and a new attack model – 2006
- Distributed Collaborative Key Agreement Protocols for Dynamic Peer Groups

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