We offer following Engineering Projects and Support (Pre and Final Semester) research projects in JAVA/JEE, .NET and Open Source technologies.

- Open Source Science Clouds
- Cloud Computing hosting Architecture
- Architecture of Web-EDA system based on Cloud computing and application for project management of IC design
- An Efficient Data Mining Framework on Hadoop using Java Persistence API
- Volunteer Computing and Desktop Cloud: The Cloud@Home Paradigm
- Model inter comparison study: cloud-radiative forcing and feedback's
- A Taxonomy and Survey of Cloud Computing Systems
- Customer Centric Cloud Service Model and a Case Study on Commerce as a Service
- Designing Cloud Services Adhering to Government Privacy Laws
- The Reservoir model and architecture for open federated cloud computing
- NIR: Content based image retrieval on cloud computing
- Resource management in data-intensive clouds: Opportunities and challenges
- Dual Validation Framework for Multi-Tenant SaaS Architecture
- The role of ice particle shape and size distributions in polarimetric radar measurands at 95 GHz
- Sustainable management of data driven projects
- Topics in integrated circuits for communications
- Retaining Data Control to the Client in Infrastructure Clouds
- Open Rainbow Services-Oriented Testbed: Low Cost Cloud Computing Platform for Open Systems Research
- ICSE Cloud 09: First international workshop on software engineering challenges for Cloud Computing
- The model of District Medical Data Center
- Keynote: Virtual Clusters for Grid, Cloud, and High-performance Computing
- Service Level Agreements Compliance Checking in the Cloud Computing: Architectural Pattern, Prototype, and Validation
- A Cloud Computing Based Real Time Financial System
- e-Science Project and Experiment Management with Microsoft Project
- On-Demand Dynamic Security for Risk-Based Secure Collaboration in Clouds
- An approach to a Cloud Computing network
- An Active Trusted Model for Virtual Machine Systems
- Terrain Modeling From Lidar Range Data in Natural Landscapes: A Predictive and Bayesian Framework
- Service Level Checking in the Cloud Computing Context
- Migrating Software Testing to the Cloud
- Cyberaide Creative: On-Demand Cyberinfrastructure Provision in Clouds
- SciCloud: Scientific Computing on the Cloud
- Scalable Run-Time Correlation Engine for Monitoring in a Cloud Computing Environment
- Unibus: Aspects of heterogeneity and fault tolerance in cloud computing
- An algorithm for topology reconstruction of scattered point cloud in reverse engineering
- NASA’s S’COOL provides the teachable moment for the new millenniums’ wide range of learners
- Accounting and Billing for Federated Cloud Infrastructures
- S’COOL provides research opportunities and current data for today’s technological classroom
- Vision-based wave sensing for high speed vessels
- Statistics of depolarization ratio from an airborne backscatter lidar
- Elastic service definition in computational clouds
- RESERVOIR: Management technologies and requirements for next generation Service Oriented Infrastructures
- On time-variable BP neural network with application in body-bio-model tracking
- Cloud and Rain Effects on AltiKa/SARAL Ka-Band Radar Altimeter—Part I: Modeling and Mean Annual Data Availability
- Image-Based Approach to Generation of Offset Curves from Point Cloud
- Multi-domain End-to-End (E2E) Routing with Multiple QoS Parameters - Considering Real World User Requirements and Service Provider Constraints
- Cloud Computing: The impact on digital forensic investigations
- Support to Aviation for Volcanic Ash Avoidance (SAVAA)
- Platform-as-a-Service Architecture for Real-Time Quality of Service Management in Clouds
- An Information Model for the Provisioning of Network Connections Enabling Customer-Specific End-to-End QoS Guarantees
- Fostering innovation in services through open education and advanced IT
- Advances in e-Infrastructures for computational sciences and engineering
- The Trident Scientific Workflow Workbench
- Enterprise Knowledge Clouds: Next Generation KM Systems
- 3D simulation of induced signals in the Medipix detector
- Georegistration of Landsat data via robust matching of multiresolution features
- SciDAC frameworks and solvers for multi-physics beam dynamics simulations
- Empirical characterization of uncongested optical lambda networks and 10GbE commodity endpoints
- Recognizing Traffic Jams with Hovering Data Clouds
- Building Customized Cushion Seats Using Stereo Visions for Disabled
- Curvature-driven Modeling and Rendering of Point-Based Surfaces
- Spatially complete global spectral surface albedos: value-added datasets derived from Terra MODIS land products
- Exploiting full-waveform lidar data and multiresolution wavelet analysis for vertical object detection and recognition
- Ordering Actions for Visibility
- Automatic Interactive Calibration of Multi-Projector-Camera Systems
- Field Surveys for Biomass Assessment in African Savanna Woodlands
- Reducing noise and redundancy in registered range data for planar surface extraction
- Robust 3D Line Extraction from Stereo Point Clouds
- A Lightweight Inter-node Operation for UDDI Cloud
- The ASTER polar cloud mask
- Mining outliers from point cloud by data slice
- Optimized Rendering for a Three-Dimensional Videoconferencing System
- Using 4G wireless technology in the car
- Processing of wearable sensor data on the cloud - a step towards scaling of continuous monitoring of health and well-being
- The PROMOTE UV Record: Toward a Global Satellite-Based Climatology of Surface Ultraviolet Irradiance
- Modeling of large-scale point model
- visualization and analysis tool for hierarchical data format files
- A scalable simulator for TinyOS applications
- StarHPC — Teaching parallel programming within elastic compute cloud
- Checkpointing and rollback-recovery in distributed object based systems
- Designing a spaceborne SAR for multi-mode imaging
- The New England electric photovoltaic systems research and demonstration project
- Risk Identification of Electronic Commerce Project Based on Cloud-Control
- The theory of amorphous cloud trajectory prediction
- Development of a desktop freehand 3-D surface reconstruction system
- Building Trust in Virtualized Networks
- 3D Display Using Passive Optical Scatterers
- Broadcasting Clouds Masks and Snow Areas Detected in MedioGrid to Mobile Devices
- A Shape-Based Vector Watermark for Digital Mapping
- Texture Analysis on Weather Radar Images of Severe Convective Precipitation in the Arid Area of Ningxia
- On Building Scientific Workflow Systems for Data Management in the Cloud
- Towards Digital Ecosystems for Skill Based Industrial Clusters: Lessons from the `Digital Mandi' Project
- Scalable Semantics – The Silver Lining of Cloud Computing
- 3-dimensional hydrodynamic interaction of a supernova remnant shock with an isolated cloud
- A Simple Real-Time Method for Modeling and Rendering Clouds
- Cloud Computing for Mobile Users
- Meshing Non-uniformly Sampled and Incomplete Data Based on Displaced T-spline Level Sets
- Multisource and multitemporal data in land cover classification tasks: the advantage offered by neural networks
- A neural network based approach for multi-spectral snowfall detection and estimation
- Towards Provisioning the Cloud: On the Usage of Multi-Granularity Flows and Services to Realize a Unified Provisioning Infrastructure for SaaS Applications
- Avoidance of the ignition of textile fiber/air mixtures during the electrostatic flocking process
- Making NASA earth observing system satellite data accessible to the K-12 and citizen scientist communities
- Precise Registration of Point Clouds for Projected Fringe Image
- Entropy estimation and multiscale processing in meteorological satellite images
- Remote Interaction and scheduling aspects of cloud based streams
- Utilization of spatial information for point cloud segmentation
- Surround Structured Lighting for Full Object Scanning
- Rubber ball to cloud rehabilitation musing on the future of therapy
- Integrating 3D point clouds with multi-viewpoint video
- Performance evaluation of Engineering 802.16e mobile WiMAX for long distance control of UAV swarms
- Description of simple method in 3D reconstruction in medical imaging
- Extending the EGEE Grid with XtremWeb-HEP Desktop Grids
- TeraGrid Science Gateways and Their Impact on Science
- Cloud effects on distributed photovoltaic generation: slow transients at the Gardner, Massachusetts photovoltaic experiment
- Ensemble methods for automatic masking of clouds in AVIRIS imagery
- Conceptual architecture design and configuration of thin client system for schools in Malaysia: A pilot project
- Risk prediction of project scheduling based cloud model
- Automating multi-camera self-calibration
- Displaying LiDAR Data for Interactive Web-Based Modelling of the Environment
- Understanding Performance Interference of I/O Workload in Virtualized Cloud Environments
- Automatic target detection using PMMW and LADAR imagery
- Data from the Sun
- Surface projection for mixed pixel restoration
- Overview of Medical Data Management Solutions for Research Communities
- A naming system applied to a RESERVOIR cloud
- Risk prediction of project scheduling based cloud model
- Senior design project: undergraduate thesis
- NCSU's Virtual Computing Lab: A Cloud Computing Solution
- A Fair Decentralized Scheduler for Bag-of-Tasks Applications on Desktop Grids
- Development of neural network convection parameterizations for numerical climate and weather prediction models using cloud resolving model simulations
- Self-Organizing Map for Erroneous Data Processing in Time Series Analysis
- Robust MR Image Segmentation Using 3D Partitioned Active Shape Models
- Freeform shape representations for efficient geometry processing
- Light-Weight Development Method: a Case Study
- Algorithm of denoising based on point cloud segmentation
- Digitizing archaeological excavations from multiple views
- New Method for Locating the 3D Facial Landmark Points
- E-Learning Computational Cloud (eLC2): Web Services Platform to Enhance Task Collaboration
- UnaGrid: On Demand Opportunistic Desktop Grid
- Displaying data in thin air
- Passive Localization: Large Size Sensor Network Localization Based on Environmental Events
- An Open Architecture for Scalable Database Clustering
- 3D point clouds processing and precise surface reconstruction of the face
- e-Science in the Cloud with CARMEN
- Recognition of human body posture from a cloud of 3D data points using wavelet transform coefficients
- Zigbee device access control and reliable datatransmission in zigbee based health monitoring system.
- An advanced embedded mobile web server for aged people monitoring and parameter back reception using gsm technologies.
- A boundary scan methodology through embedded web servers and mobile rfid tracking system for the surveillance and mapping of motion subjects.
- Robust and efficient password-authenticated key agreement using smart cards for campus management.
- Group elevator scheduling with advance information for normal and emergency modes in building management systems.
- Models for bearing damage detection in induction motors using stator current monitoring.
- A design of a prototypic hand-talk: assistive technology for the deaf.
- An internal location-based system for mobile devices using rfid.
- Internet-based teaching and experiment system for control engineering course as a prototype model.
- Enhanced spatial resolution of person detection in a pir based surveillance network.
- Application of gprs techniques for wide-area power quality monitoring.
- A zigbee network multi-channel heart rate monitoring system for exercising rehabilitation patients.
- Development of reliability test guidelines for micro electro mechanical systems (mems) in military applications.
- An black box alert system for crash recovery and prediction using mems technology.
- Wireless radio frequency based intelligent traffic system for emergency vehicle and optimal routing for conventional vehicles.