Dr. Arun Datta

adatta@nu.edu

National University

School of Engineering and Technology

Department of Computer Science and Information Systems

Department Chair: Dr. Ronald Uhlig

Lead Faculty: Dr. Peter Dey

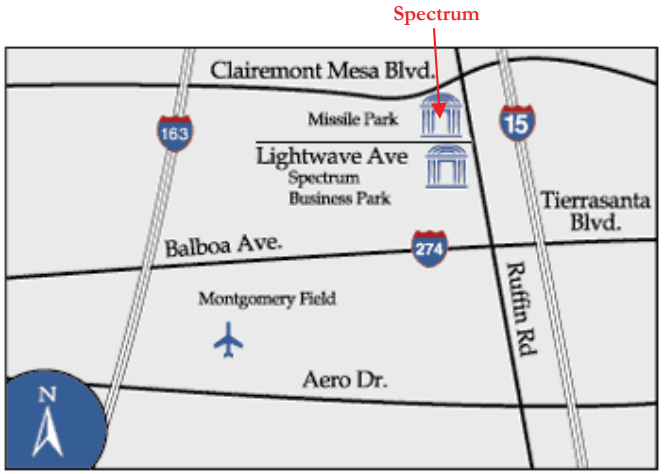
3678 Aero Court

San Diego, CA 92123-1788

☎*(858) 309-3412 Phone*

🖷*(858) 309-3420 Fax*

www.nu.edu



LOCATION MAP

SPECTRUM CENTER
EXECUTIVE ROOM
ROOM 150

9388 LIGHTWAVE AVE.
SAN DIEGO, CA 92123
☎(619) 563-7300

PRESENTATION SCHEDULE

Friday October 24, 2008

5:00 p.m.

Master of Science in Computer Science

Capstone Presentation

NATIONAL UNIVERSITY

SCHOOL OF ENGINEERING AND TECHNOLOGY

Project: **VISUALIZATION OF TURING MACHINES**

Mithil Kumar Santapuri, Krishna Chaitanya Korupolu and Malathi Rajendran

A Turing Machine serves as a mathematical model of computation. Alan Turing, a cryptographer and mathematician, described its features in 1936. Turing Machines can process all computable sets and can represent any computable function. This project implements a Java Applet that demonstrates how a complex input is processed by a Turing Machine. The main goal of this project is to show a Turing Machine in action while it is processing an input. If a string such as **aabbcc** is given as an input to the machine then the machine examines the symbols of the sting going through its states and transitions and finally accepts the string by reaching the halt state.

Project:: **PARTIALLY AUTOMATED COMMENT GENERATION**

Satya Abhishek Kodukula, Venkat Ramana Reddy Joonuthula, Srujana Kadiyala, and Akindele Shiyanbola

During software development, a good practice is to write comments and place them appropriately while writing the codes. This practice ensures the reusability of codes. Often, because of time constraints, a developer finds it difficult spending additional time to write comments while writing the codes. This software developmental project focuses on development of a comment generator to partially automate this process. Most of the generated comments are human assisted and some of them are automatically updated. The user has to type the comments in the text boxes of a GUI so that the system can automatically insert them into the program.

Project: **SECURED ONLINE EXAMINATION SYSTEM**

Vinod Kumar Lalanolla, Ravi Kiran Meda, Narasimha Deepak Mudili, Bindhu Madhav Vuppu

This project involves developing a system that ensures secured online examination and automates the examination system. The main concern is to develop an examination system which has appropriate security features. An examiner can access this system securely and conduct a test online. The modules have been implemented using Java programming language and the user interface has been built using Java Server Pages. The Client's requests are handled by Java Servlets and databse requirements are met with MySQL.

Project: **eHEALTHCARE: A KNOWLEDGE BASED SYSTEM FOR MEDICAL DIAGNOSIS AND INFECTION DISEASE CONTROL**

Chutikan Putasiri and Sukhija Kashish

The healthcare cost in USA is escalating to a point that everyone involved started realizing that something needs to be done to make it affordable. A thorough analysis of the present state of healthcare indicated that the lack of standard for sharing the health related information often increase the cost of healthcare because of redundancy of services. We have developed a portal, eHealthCare, to address this issue. This portal system will be supported by an open grid services architecture developed by the Global Grid Forum (GGF). State-of-the-art technologies including AJAX will be used in this development. The portal will also provide services for collaboration through access grid/InSORS. GUIs will also be provided for accessing to grid computing and datagrid. Content Management Systems, such as Drupal (an open source software system) will be used for health related content management. Its wiki and blog components will be used for communcation and collaboration.

Project:: **DECISION SUPPORT SYSTEM FOR OBESITY CONTROL**

Praneeth Reddy Tummala, Narasimha Swamy Padavala, Sandhyapoornima Kotha

This project focuses mainly on the knowledge acquisition using the AI-based expert system. The system is designed to collect data from various test results, such as, lab tests, physical examination and related. All these tests results and related data are stored in a relational database. The system is able to create a profile of a user (patient/client) and its expert system provides a guidance suggesting exercise and nutrition charts on the basis of this profile.

Project: **MATH INTELLIGENT TUTORING SYSTEM**

Anirudh Kashikar, Mallikarjun Trichinapally, BalaKrishna Kasula

This project involves the development of a Math Tutor designed for students following the course work in Algebra by using the Computer Aided Instruction Methods. This report also describes recent progress done on Intelligent Tutoring Systems and also addresses the strategies on Algebraic thinking and Strategies for overcoming Intuition. The report also discusses about the various Techniques used in the Tutoring System which include the AI-based techniques, the Architecture of the Tutoring System, the User Interface, Video Lessons by a real teacher and also the deployment of Analytical testing to match each student's level. The ultimate goal of the Math Intelligent Tutoring System (MITS) is to tutor the student in the field of Algebra and to assess his/her understanding of the subject.

Project:: **STUDENTS JOB PORTAL**

Swetha Dodla and Thotireddy Ratna Shekar Reddy

This project focuses on the development of a portal to serve the job-seeking national University students. *Student Job Portal* is an important activity of each and every educational institution. Students will be able to submit their resume online in a secured way that may be used for searching a matching job/candidate by the user. The entire student database will be maintained by the Administrator. All the rights are given to the Administrator for updating and deleting the records from the database. The Administrator will collect all the details of the client companies and their recruitment criteria.

Project:: **BIOGEOGRAPHIC INFORMATION SYSTEM FOR MARINE LIFE**

Sharada Jadda, Pavani Kandi, Sarbmeet Singh, Srikanth Ambati Satyanarayana

The objective of the Biogeographic Information System for Marine Life (BISM) is to understand and predict the distribution of genes, individuals and species through space and time. It requires data integration from multiple types and multiple sources. This web application is designed to hold the information about where species have been found and produce a map of the region.

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