COT 4810: Topics in Computer Science
Schedule for presentations
Spring 2004

Jan. 5
Introductory class. Logistics.

Jan. 7
Automated Laser Diode Characterization using XMLRPC / TCL / Visual Basic (Jonathan S. Romero)
Expert Systems Shells(Sean Williams)

Jan. 9
Linux kernel/hardware configuration(Greg Meno)

Jan. 12
Relational Databases(Doug Hathaway)
Discrete Event Simulation(Stephen Connetti)

Jan. 14
Neural Networks that Learn (Ricardo Lugo**)**

Jan. 16
Class Cancelled

Jan. 21
Computer Forensics(Andrew Ramka)
Public key Cryptography(Andrew Spaulding)

Jan. 23
Storing Images using Quadtrees(Richard Lum)
Parallel Computing(Charles Ahern)

Jan. 26
Church's Thesis (Corey Reece)
Aspect-Oriented Programming(Thomas Meeks)

Jan. 28
Implications of 64 bits processors(Mark Colbert)
Detecting Primes(David Morrell)

Jan. 30
Nanotechnology (Daniel Roop)
Information Retrieval (San Carswell)

Feb. 2
Game Trees(Paul Walker)
Shadow Volumes(Jaakko Konttinen)

Feb. 4
Newton-Raphson Method(Miguel Pilar)
Recursion(Ghada Sallit)

Feb. 6
Computer viruses(Thomas Sears)
Godel's Theorem(Timothy Rosenblatt)

Feb. 9
3D Graphics Pipeline(Greg MacDonald)
VLSI Computers(Ryan Gaskill)

Feb. 11
Text Compression: Huffman Encoding(Dusty Price)
Error-Correcting Codes: Pictures from Space(Jesse Dean)

Feb. 13
DVD backup and decryption(Jan Svoboda)
Bluetooth(Jon Gluvna)

Feb. 16
Web Content Syndication (Tyler Hunt)
Program Correctness(Jonathan S. Romero)

Feb. 18
Genetic Algorithms (Sean Williams)
Time and Space Complexity (Greg Meno)

Feb. 20
Fast Multiplication (Doug Hathaway)
Perceptrons (Stephen Connetti)

Feb. 23
CAT Scanning(Ricardo Lugo**)**
The Fast Fourier Transform(Andrew Ramka)

Feb. 25
Analog Computation(Andrew Spaulding)
The Partition Problem(Richard Lum)

Feb. 27
Satisfiability(Charles Ahern)
Sparse Matrix Storage Formats (Corey Reece)

March 1
Cellular Automata (Thomas Meeks)
Shannon's Theory (Mark Colbert)

March 3
Systolic Arrays (David Morrell)
?????????(Daniel Roop)

March 5
Searching strings with Boyer-Moore algorithm (San Carswell)
Data Flow Computers (Paul Walker)

March 15
Quantum Computing (Jaakko Konttinen)
DNA Computing (Miguel Pilar)

March 17
Coda File System(Ghada Sallit)
Vector Processing (Thomas Sears)

March 19
Performance Evaluation (Timothy Rosenblatt)
Watermarking (Greg MacDonald)

March 22
RAID (Ryan Gaskill)
MEMS Based Storage Devices (Dusty Price)

March 24
Ray Casting (Jesse Dean)
General Recursive Functions (Jan Svoboda)

March 26
Halting Problem (Jon Gluvna)
Earth Simulator (Tyler Hunt)

March 29

March 31

April 2

April 5

April 7

April 9

April 12

April 14

April 16

April 19