

# UCF

## School of computer Science

COT 4810: Topics in Computer Science

Fall 2004

### Presentation Schedule

09/09/04

- James Sunshine: Artificial Intelligence and Artificial life.
- Ken Pritchard: Hashtables and Hashing
- William Dotson: Game Trees

09/14/04

- Justin Reschke: Parallel Computing
- Ralph Sabino: Computer graphics and motion picture
- Eric L. Frederich: Xbox Hardware / Software Hacking

09/16/04

- Craig Schweitzer: Peer to peer file sharing
- Annie Calpe: Steganography
- Bryan Pearsaul: Public Key Cryptography: Hellman/Merkle/Diffie and RSA

09/21/04

- John Stone: Error Correcting Codes
- Monika Gupta: Computer viruses
- Steven Giovenco: Ray Tracing

09/23/04

- Derek Gallo: Dictionaries as Programs
- Justin Griffin: Storing Images
- Paul Boudreaux: Text Compression

09/28/04

- Jonathan Break: Systolic Arrays and there applications
- Hernan G Meyer III: DNA Computing
- Njegos Nincic: Godel's Theorem (Chapter5)

09/30/04

- James Sunshine: Simulation (Chapter 4)
- Ken Pritchard: VLSI Computers (Chapter 56)
- William Dotson: Detecting Primes

10/05/04

- Justin Reschke: Program Correcness (Chapter 10)
- Ralph Sabino: The Newton-Raphson Method (Chapter 21)
- Eric L. Frederich: Satisfiability (Chapter 34)

10/12/04

- Craig Schweitzer: Cellular Automata (Chapter 44)
- Annie Calpe: Recursion (Chapter 24)
- Bryan Pearsaul: NP complete Problems

10/14/04

- John Stone: Dataflow architecture
- Monika Gupta: Shannon's Theory (Chapter 49)
- Steven Giovenco: Quantum Computing

10/19/04

- Derek Gallo: MEMS-based storage systems.
- Justin Griffin: Computer vision (Chapter 19)
- Paul Boudreaux: Genetic Algorithms (Chapter 16)

10/21/04

- Jonathan Break: Ray casting
- Hernan G Meyer III: Earth simulator
- Njegos Nincic: Discrete Fourier Transform (DFT)

10/28/04

- James Sunshine: Social Engineering (security)
- Ken Pritchard: Buffer Overflow virus

11/02/04

- William Dotson: Trap door and logic-bomb
- Justin Reschke: Macro viruses
- Ralph Sabino: Spoofing

11/04/04

- Eric L. Frederick: TCPA (Trusted Computing Platform Alliance)
- Craig Schweitzer: Denial of services
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\*\*\*\*\***REPORT DUE 11/04/04**\*\*\*\*\*

11/09/04

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- Annie Calpe: File system security in Unix
- Monika Gupta: Secure Shell (SSH)
- Steven Giovenco: Secure Sockets Layer (SSL)

11/11/04

\*\*\*\*\* **Veterans' Day** \*\*\*\*\*

11/16/04

- Derek Gallo: Mobile security
- Bryan Pearsaul: Instruction detection
- Justin Griffin: Kerberos

11/18/04

- Jonathan Break: Boot sector virus
- Hernan G Meyer III: Digital signatures
- Njegos Nincic: Firewalls

11/23/04

Invited speaker:

11/30/04

12/02/04