CS Faculty Research Interests

Peter Anderson
Professor Emeritus
Ph.D.
Massachusetts Institute of Technology

- neural networks
- genetic algorithms
- pattern recognition
- languages and compilers

Reynold Bailey
Assistant Professor
Ph.D.
Washington University

- applied perception in graphics
- computer graphics
- interactive techniques

Ivona Bezakova
Assistant Professor
Ph.D.
University of Chicago

- discrete random structures
- machine learning
- game theory
- networking
- randomized & approximation algorithms

Hans-Peter Bischof
Professor
Ph.D.
University of Osnabrück

- visualization
- high performance file systems
- distributed systems
- languages

T.J. Borrelli
Lecturer
MS
Rochester Institute of Technology

- machine learning
- artificial intelligence
- genetic algorithms
- game theory
- computer science education
- operating systems
- programming languages
- system administration

Jeremy Brown
Lecturer
MS
Florida Institute of Technology

- networking
- OS development & system programming
- mobile platform development

Revised 8/12/14
Zack Butler
Associate Professor
Ph.D.
Carnegie Mellon University

- robotics for CS education
- cooperative robotics
- distributed systems

Roxanne Canosa
Associate Professor
Ph.D.
Rochester Institute of Technology

- computer vision
- cognitive modeling
- image understanding
- artificial intelligence
- neural networks

Warren R. Carithers
Associate Professor
MS
University of Kansas

- operating systems
- computer organization and architecture
- computer graphics
- systems software
- programming languages
- computers and music
- security
- ethics
- privacy

Aaron Deever
Lecturer
Ph.D.
Cornell University

- algorithms
- computer science education

Robert Duncan
Lecturer
MS
Rochester Institute of Technology

- computer organization
- architecture
- real-time systems
- systems software

Henry A. Etlinger
Associate Professor
MS
Syracuse University

- data management
- software engineering
- technical communications
- computer science education

Matthew Fluet
Assistant Professor
Ph.D.
Cornell University

- programming languages
- functional programming
- compiler construction
- parallelism and concurrency
- type systems
- program analysis
Roger Gaborski
Professor
Ph.D.
University of Maryland

- computer vision
- neural networks
- genetic algorithms
- machine learning
- artificial intelligence
- evolutionary computation

Joe Geigel
Associate Professor
DSC
George Washington University

- computer graphics
- virtual and augmented reality
- interdisciplinary curriculum development
- affective computing
- multimedia performance
- user interface
- image processing
- genetic algorithms
- algorithmic sound synthesis

James Heliotis
Professor
Ph.D.
University of Rochester

- programming languages
- software development tools
- aspect-oriented programming
- software design techniques
- software architecture styles
- smart power
- applications in music

Edith Hemaspaandra
Professor
Ph.D.
University of Amsterdam

- computational social choice
- computational complexity
- algorithms
- logic in computer science
- computational politics
- computational linguistics

Christopher M. Homan
Associate Professor
Ph.D.
University of Rochester

- social-computational systems
- social network analysis
- computer supported cooperative work
- theory of computing
Trudy Howles
Associate Professor
Ph.D.
Nova Southeastern University

- languages
- software engineering
- software quality
- software process improvements
- interface design
- learning methods

Alan Kaminsky
Professor
MS
University of Michigan

- parallel computing
- cryptography
- computational science
- distributed systems
- ad hoc networking
- security

Fereydoun Kazemian
Associate Professor
Ph.D.
Kansas State University

- artificial intelligence
- expert systems
- databases
- software engineering
- user interfaces
- functional programming

Mohan Kumar
Professor and Chair
Ph.D.
Indian Institute of Science

- mobile and pervasive computing
- opportunistic networking and computing
- sensor systems
- parallel and distributed systems

Minseok Kwon
Associate Professor
Ph.D.
Purdue University

- computer networks
- mobile wireless networks
- network security
- distributed systems

Xumin Liu
Assistant Professor
Ph.D.
Virginia Tech.

- data management
- web-based databases
- web services
- semantic web

Wiley McKinzie
Professor
MS
State University of New York at Buffalo

- evolution of computing
Arthur Nunes-Harwitt  
Lecturer  
MS  
University of Pittsburgh

- programming languages  
- artificial intelligence  
- computer algebra

Peizhao Hu  
Assistant Professor  
Ph.D.  
University of Queensland

- mobile and pervasive computing  
- context modeling and context-aware computing  
- adaptive wireless networks  
- smart sensor systems and networks  
- distributed system

Stanislaw Radziszowski  
Professor  
Ph.D.  
University of Warsaw

- Ramsey numbers, Folkman numbers  
- Ramsey theory  
- cryptography  
- algorithms  
- complexity theory  
- combinatorial computing  
- extremal graph theory

Rajendra K. Raj  
Professor  
Ph.D.  
University of Washington

- secure computing: coding, systems and data management  
- critical infrastructure protection  
- distributed and mobile computing with the Cloud  
- software design, architecture and reuse

Leon Reznik  
Professor  
Ph.D.  
Petersburg Polytechnic Institute

- data quality and security evaluation  
- intrusion detection  
- intelligent system design  
- computer security measurement and testing

Carol Romanowski  
Associate Professor  
Ph.D.  
University of Buffalo

- big data/data science  
- critical infrastructure protection  
- data mining/machine learning

Ben Steele  
Lecturer  
MS  
Rochester Institute of Technology

- software design  
- system software  
- programming languages  
- mobile applications
Sean Strout  
Lecturer  
MS  
Rochester Institute of Technology

- computer graphics
- real-time systems
- programming languages

Paul Tymann  
Professor  
MS  
Syracuse University

- networking
- distributed computing
- parallel computing
- bioinformatics
- operating systems
- data communications
- computer organization

Philip White  
Lecturer  
MS  
Rochester Institute of Technology

- computer organization and architecture
- computer graphics
- genetic algorithms

Richard Zanibbi  
Assistant Professor  
Ph.D.  
Queen’s University

- pattern recognition
- machine learning
- document recognition
- human computer interaction
- programming languages