



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

Associate Professor
Ph.D.
Washington University

- applied perception in graphics
- computer graphics
- interactive techniques

Ivona Bezakova

Associate Professor
Ph.D.
University of Chicago

- design and analysis of algorithms
- Markov chains
- counting and sampling problems
- discrete random structures
- planar graph algorithms

Hans-Peter Bischof

Professor
Ph.D.
University of Osnabrück

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

T.J. Borrelli

Senior Lecturer
MS
Rochester Institute of Technology

- machine learning
- artificial intelligence
- genetic algorithms
- game theory
- scripting languages
- computer science education

Jeremy Brown

Lecturer
MS
Florida Institute of Technology

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

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

Associate Professor
Ph.D.
Cornell University

- programming languages
- functional programming
- compiler construction
- parallelism and concurrency
- type systems
- program analysis

Roger Gaborski

Professor Emeritus
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

Professor Emeritus
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
- distributed systems
- mobile computing

Xumin Liu

Associate Professor
Ph.D.
Virginia Tech.

- data management
- data mining and machine learning
- service computing and web services
- social computing
- semantic web

Wiley McKinzie

Professor
MS
State University of New York at Buffalo

- evolution of computing

Arthur Nunes-Harwitt

Lecturer
Ph.D.
Rochester Institute of Technology

- programming languages
- artificial intelligence
- computer algebra

Peizhao Hu

Assistant Professor
Ph.D.
University of Queensland

- mobile and pervasive computing
- applied cryptography: homomorphic encryption
- adaptive wireless networks

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

Associate Professor
Ph.D.
Queen's University

- pattern recognition and machine learning
- document recognition
- human computer interaction
- programming languages
- information retrieval