

Computer Science & Engineering

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Faculty

Chair

Roch Guérin

Harold B. and Adelaide G. Welge Professor of Computer Science
PhD, California Institute of Technology
Computer networks and communication systems

Professors

Kunal Agrawal

PhD, Massachusetts Institute of Technology
Parallel computing, cyber-physical systems and sensing, theoretical computer science

Sanjoy Baruah

PhD, University of Texas at Austin
Real-time and safety-critical system design, cyber-physical systems, scheduling theory, resource allocation and sharing in distributed computing environments

Ian Bogost

PhD, University of California, Los Angeles
Philosopher, computationalist and award-winning game designer

Aaron Bobick

James M. McKelvey Professor and Dean
PhD, Massachusetts Institute of Technology
Computer vision, graphics, human-robot collaboration

Michael R. Brent

Henry Edwin Sever Professor of Engineering
PhD, Massachusetts Institute of Technology
Systems biology, computational and experimental genomics, mathematical modeling, algorithms for computational biology, bioinformatics

Jeremy Buhler

PhD, Washington University
Computational biology, genomics, algorithms for comparing and annotating large biosequences

Roger D. Chamberlain

DSc, Washington University
Computer engineering, parallel computation, computer architecture, multiprocessor systems

Yixin Chen

PhD, University of Illinois at Urbana-Champaign
Mathematical optimization, artificial intelligence, planning and scheduling, data mining, learning data warehousing, operations research, data security

Patrick Crowley

PhD, University of Washington
Computer and network systems, network security

Ron K. Cytron

PhD, University of Illinois at Urbana-Champaign
Programming languages, middleware, real-time systems

Christopher D. Gill

DSc, Washington University
Parallel and distributed real-time embedded systems, cyber-physical systems, concurrency platforms and middleware, formal models and analysis of concurrency and timing

Nathan Jacobs

PhD, Washington University in St. Louis
Develops learning-based computer vision algorithms, with a focus on geospatial and medical applications

Raj Jain

Barbara J. & Jerome R. Cox Jr. Professor of Computer Science
PhD, Harvard University
Network security, blockchains, medical systems security, industrial systems security, wireless networks, unmanned aircraft systems, internet of things, telecommunications networks, traffic management

Caitlin Kelleher

Hugo F. & Ina Champ Urbauer
Career Development Associate Professor
PhD, Carnegie Mellon University
Human-computer interaction, programming environments, and learning environments

Tao Ju

PhD, Rice University
Computer graphics, visualization, mesh processing, medical imaging and modeling

Chenyang Lu

Fullgraf Professor in the Department of Computer Science & Engineering
PhD, University of Virginia
Internet of things, real-time, embedded, and cyber-physical systems, cloud and edge computing, wireless sensor networks

Yevgeniy Vorobeychik

PhD, University of Michigan
Artificial intelligence, machine learning, computational economics, security and privacy, multi-agent systems

Associate Professors

Roman Garnett

PhD, University of Oxford
Active learning (especially with atypical objectives), Bayesian optimization, and Bayesian nonparametric analysis

Brendan Juba

PhD, Massachusetts Institute of Technology
Theoretical approaches to artificial intelligence founded on computational complexity theory and theoretical computer science more broadly construed

Ulugbek Kamilov

PhD, École Polytechnique Fédérale de Lausanne, Switzerland
Computational imaging, image and signal processing, machine learning and optimization

I-Ting Angelina Lee

PhD, Massachusetts Institute of Technology