

Areas of research

Biomedical Engineering

- + Biomedical & Biological Imaging
- + Cardiovascular Engineering
- + Cellular & Molecular Bioengineering
- + Neural Engineering
- + Orthopedic Engineering
- + Regenerative Engineering in Medicine
- + Women's Health Technologies

Computer Science & Engineering

- + Artificial Intelligence & Machine Learning
 - Algorithms/Methods
 - Applications
 - Theory
- + Computational Biology & Bioinformatics
- + Computer Engineering
- + Computer Vision & Imaging
- + Cybersecurity & Privacy
- + Graphics
- + Human-Computer Interaction
- + Natural Language Processing
- + Networking & Parallel Computing
- + Real-Time & Cyber-Physical Systems
- + Theoretical Computer Science
- + Visualization

Energy, Environmental & Chemical Engineering

- + Chemical Engineering
 - Advanced Materials & Nanotechnology
 - Novel Chemical Processes & Technologies
 - Synthetic Biology & Bioproduct Engineering
- + Energy
 - Energy Conversion & Storage
 - Interface of Energy with Environmental & Chemical Engineering
 - Sustainable Energy Systems
- + Environmental Engineering
 - Air Quality & Climate
 - Environmental Chemistry & Microbiology
 - Water Quality & Resource Recovery

Electrical & Systems Engineering

- + Applied Physics
 - Integrated Photonics, Optoelectronics & Metasurfaces
 - Nonlinear Light-Matter Interaction
 - Optics and Photonics in Sensing & Imaging
 - Quantum Optics & Electronics
- + Devices & Circuits
 - AI & Neuromorphic Accelerators
 - Analog & Digital Integrated Circuits
 - Biomedical & Implantable Devices
 - Nanoelectronics & Emerging Devices
 - Sensors & Sensing Systems
- + Systems Science
 - Complex Networks
 - Computational Neuroscience
 - Control, Optimization & Game Theory
 - Data Science & Machine Learning
 - Robotics & Autonomous Cyber-Physical Systems
- + Signals & Imaging
 - Estimation & Decision Theory
 - Low Light-Level Optical Imaging
 - Model-Based & Data-Driven High-Dimensional Image Processing
 - Tomographic Imaging

Computational & Data Sciences

- + Computational Methodologies
- + Political Science
- + Psychological & Brain Sciences
- + Public Health & Social Work

Imaging Science

- + Applications of Imaging in Science & Engineering
- + Cancer Imaging & Therapy
- + Computer Vision
- + Image Formation & Reconstruction
- + Imaging Physics
- + Imaging Science in Medicine
- + Imaging System Design & Instrumentation
- + Machine Learning in Imaging Science
- + Magnetic Resonance Imaging
- + Neuroimaging
- + Nuclear Medicine
- + Optical Imaging
- + Quantitative Imaging
- + Theoretical Imaging Science
- + Ultrasound & Photoacoustics
- + X-ray, CT, Proton beam CT

Materials Science & Engineering

- + Biomechanics & Mechanobiology
- + Design of Materials & Manufacturing Processes
- + Imaging & Mechanical Characterization
- + Micro-Nano-Fabrication & Micro-Nano-Technologies
- + Multiscale & Multiphysics Computational Modeling
- + Soft/biomaterials, Bioelectronics & Biosensors
- + Structural & Functional Materials
- + Thermal-fluids in Energy, Manufacturing & Biomedicine

Mechanical Engineering & Materials Science

- + Advanced Materials
- + Biomechanics & Mechanobiology
- + Thermal-Fluids in Energy, Aerospace & Biomedicine



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more and
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