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Research

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Applied Mathematics & Computational Science

Control Theory and Stochastic Systems
Brockett, Ham, Khaneja, Mahadevan, Maurice Smith, Tarokh

High Performance Computing
Bloxham, Kaxiras, Kuang, Pfister

Modeling Physical/Biological Phenomena and Systems
D. Anderson, Bertoldi, Bloxham, Bossert, Brenner, Farrell, Hutchinson, Kaxiras, Kuang, P. Martin, Mahadevan, Nagpal, Nelson, Rice, Maurice Smith, Suo, Tziperman, Wu

Theory of Computation
Lewis, Mitzenmacher, Parkes, Rabin, Vadhan, Valiant

Computer Science

Artificial Intelligence and Computational Linguistics
Adams, Gajos, Grosz, Parkes, Shieber

Computation and Economics
Chen, Parkes

Graphics, Visualization, and Imaging
Gortler, Howe, Lu, Pfister, Shen, Zickler

Human-Computer Interaction
Gajos, Grosz, Kohler, Pfister, Shieber

Intelligent Systems and Computer Vision
Adams, Brockett, Gajos, Howe, Wood, Zickler

Languages, Compilers, and Operating Systems
Chong, Kohler, Morrisett, Michael Smith, Waldo

Multi-Agent Systems
Chen, Gajos, Grosz, Nagpal, Parkes, Shieber

Information, Systems, and Networks
Brooks, Chong, Kohler, Kung, Morrisett, Seltzer, Michael Smith, Waldo

Privacy and Security
Chong, Kohler, Lewis, Morrisett, Rabin, Michael Smith, Vadhan, Waldo, Zittrain

Theory of Computation
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Electrical Engineering

Computer Engineering and Architecture
Brooks, Kung, Michael Smith, Wei, Yang

Circuits and VLSI
Ham, Horowitz, Pfister, Wei, Westervelt, Yang

Signal Processing
Kung, Lu, Tarokh, Wolfe, Zickler

Robotics and Control
Brockett, Howe, Mahadevan, Maurice Smith, Walsh, Wood

Energy & Environmental Systems

Atmospheric and Climate Modeling
J. Anderson, Jacob, Keith, Mahadevan, Martin, McElroy, Mickley, Logan, Munger, Schrag, Tziperman, Wofsy

Energy and Environmental Technologies
Aziz, Friend, Hu, Keith, S. Martin, Shriram Ramanathan, Rice, Rogers, Schrag, Vecitis

Engineering, Economic Development, and Resource Management
Briscoe, Keith, McElroy, Rogers

Environmental Chemistry and Microbiology
S. Martin, Vecitis

Oceans and Geophysics
J. Anderson, Bloxham, Farrell, Jacob, Kuang, Mahadevan, S. Martin, McElroy, Rice, Schrag, Tziperman, Wofsy

Observation and Field Testing
J. Anderson, Munger, Wofsy

Pollution Monitoring
Logan, S. Martin, Mickley, Munger

Innovation & Entrepreneurship

Idea Translation and Experiments in the Arts and Sciences
Edwards

Social Enterprise
Edwards, Narayanamurti

Start-ups and Technology Transfer
Edwards, Ingber, Walsh, Weitz, Yang

Marriage of Biological & Artificial Systems

Bio-Inspired Robotics and Computing
Howe, Nagpal, Wood

Biomechanics and Motor Control
Aizenberg, Brenner, Cluzel, Howe, Ingber, Mahadevan, Mooney, Needleman, Parker, Maurice Smith, Walsh, Weitz, Wood

Cell and Tissue Engineering and Biomaterials
Auguste, Cluzel, Edwards, Ingber, Joshi, Mahadevan, Mooney, Needleman, Parker, Sharad Ramanathan

Computational Neuroscience and Evolution
Maurice Smith, Valiant

Materials & Devices

Biophysics and Self-Assembly
Aizenberg, Brenner, Cluzel, Golovchenko, Ingber, Joshi, Mahadevan, Manoharan, Mooney, Nagpal, Needleman, Nelson, Parker, Sharad Ramanathan, Weitz, Westervelt

Electromagnetics and Nanoelectronics
Capasso, Clarke, Golovchenko, Ham, Hu, Kaxiras, Lieber, Loncar, Narayanamurti, Sharad Ramanathan, Shriram Ramanathan, Westervelt

Fluid Mechanics
Brenner, Mahadevan, Rice, Tziperman

Materials Science
Aizenberg, Auguste, Aziz, Bertoldi, Brenner, Clarke, Cluzel, Friend, Hu, Joshi, Kaxiras, Lieber, Mahadevan, Manoharan, Narayanamurti, Needleman, Sharad Ramanathan, Shriram Ramanathan, Rice, Spaepen, Vlassak, Weitz

Nanophotonics
Capasso, Clarke, Crozier, Golovchenko, Ham, Hau, Hu, Loncar, Manoharan, Mazur, Murray

Quantum Devices
Capasso, Ham, Hau, Loncar

Soft Condensed Matter
Aizenberg, Brenner, Cluzel, Golovchenko, Mahadevan, Manoharan, Murray, Needleman, Nelson, Pershan, Spaepen, Weitz

Solid Mechanics
Bertoldi, Hutchinson, Mahadevan, Rice, Suo, Tziperman, Vlassak, Walsh

Surface and Interface Science
Aizenberg, Aziz, Cluzel, Friend, Golovchenko, Kaxiras, Mahadevan, Manoharan, Murray, Narayanamurti, Needleman, Pershan, Sharad Ramanathan, Shriram Ramanathan, Spaepen, Vlassak, Weitz

Science, Technology, & Public Policy

Communications and Internet Policy
Lewis, Oettinger, Zittrain

Energy, Environment, and Sustainability
Briscoe, Keith, McElroy, Narayanamurti, Rogers, Schrag

Governance of Emerging Technologies/Innovation Policy
Abernathy, Narayanamurti, Oettinger, Zittrain

Science and Engineering Education
Edwards, Mazur, Narayanamurti

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Center for Nanoscale Systems (CNS)
www.cns.fas.harvard.edu

Center for Research in Computation and Society (CRCS)
www.crcs.seas.harvard.edu

Institute for Applied Computational Science (IACS)
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Kavli Institute for Bionano Science and Technology (KIBST)
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Materials Research Science and Engineering Center (MRSEC)
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Nanoscale Science and Engineering Center (NSEC)
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Rowland Institute at Harvard
www.rowland.harvard.edu

Wyss Institute for Biologically Inspired Engineering (Wyss)
www.wyss.harvard.edu

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