



2012

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**
Lewis, Mitzenmacher, Parkes, Rabin, Vadhan, Valiant

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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KEY AFFILIATED RESEARCH CENTERS & INITIATIVES

BASF Advanced Research Initiative at Harvard University

research.initiative.seas.harvard.edu

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)

iacs.seas.harvard.edu

Kavli Institute for Bionano Science and Technology (KIBST)

www.kavli.seas.harvard.edu

Materials Research Science and Engineering Center (MRSEC)

www.mrsec.harvard.edu

Nanoscale Science and Engineering Center (NSEC)

www.nsec.harvard.edu

Rowland Institute at Harvard

www.rowland.harvard.edu

Wyss Institute for Biologically Inspired Engineering (Wyss)

www.wyss.harvard.edu

Harvard is also part of an integrated partnership called the National Nanotechnology Infrastructure Network (NNIN), comprising 13 user facilities.