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Need an expert for a news story? We have experts in computers, the environment, business, finance, biomedical, molecular biology, and chemistry—everything from accounting to x-ray spectroscopy, and a multitude of scientific/technological topics in between. To schedule an interview call the OGI School of Science & Engineering at Oregon Health & Science University at 503-748-1546 or 503-748-1042.

A list of experts, by alphabetical subject area, is listed below.

OGI School of Science & Engineering Experts Guide

ACCOUNTING

**Jack Raiton, MBA, Senior Fellow, Department of Management in
Science and Technology**

ACID RAIN

**Dr. James Pankow, Professor, Department of
Environmental and Biomolecular Systems**

AGING

(see baby boomers)

AIR POLLUTION

**Dr. Reinhold Rasmussen, Professor, Department of Environmental and
Biomolecular Systems
Dr. James Pankow, Professor, Department of Environmental and
Biomolecular Systems**

ANIMAL COMMUNICATION

(Chemical communication between reproducing mammals)

**Dr. L.E.L. "Bets" Rasmussen, Research Professor, Department of
Environmental and Biomolecular Systems
Dr. Gebre Woldegiorgis, Associate Professor, Department of
Environmental and Biomolecular Systems**

ANTHRAX

(see spores)

ANTIBIOTIC PRODUCTION

**Dr. Peter Zuber, Professor, Department of Environmental and
Biomolecular Systems**

AQUIFERS

**Dr. Richard Johnson, Associate Professor, Department of
Environmental and Biomolecular Systems**

ARTIFICIAL INTELLIGENCE

(Machine learning, neural networks, robotics)

**Dr. Todd Leen, Professor, Department of Computer Science and
Engineering**

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

**Dr. Eric Wan, Associate Professor, Department of Computer Science
and Engineering**

**Dr. Xubo Song, Assistant Professor, Department of Computer Science
and Engineering**

**Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of
Computer Science and Engineering**

(Symbolic reasoning)

**Dr. Peter Heeman, Assistant Professor, Department of Computer
Science and Engineering**

ATMOSPHERE

(see greenhouse effect, methane, air pollution)

AUTOMATED DIAGNOSTICS

**Dr. Xubo Song, Assistant Professor, Department of Computer Science
and Engineering**

BABY BOOMERS

(Health innovations)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

**Dr. Tamara Hayes, Assistant Professor, Departments of Computer
Science and Engineering and Biomedical Engineering**

BIOCHEMISTRY

**Dr. Peter Zuber, Professor, Department of Environmental and
Biomolecular Systems**

**Dr. Gebre Woldegiorgis, Associate Professor, Department of
Environmental and Biomolecular Systems**

BIOLOGICAL WEAPONS

(see spores)

BIOMATERIALS

(To replace or augment damaged tissue)

Dr. Sean Kirkpatrick, Associate Professor, Department of Biomedical Engineering

Dr. Ken Gregory, Associate Professor, Department of Biomedical Engineering

BIOMEDICAL ENGINEERING

Dr. Steve Hanson, Professor and Department Head, Department of Biomedical Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

Dr. Stanley Huber, Assistant Professor, Department of Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

BIOMEDICAL INSTRUMENTATION

Dr. Stanley Huber, Assistant Professor, Department of Biomedical Engineering

BIOMEDICAL SIGNAL PROCESSING

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

BIOREMEDIATION

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

BIOTERRORISM

(see spores)

BRAIN MACHINE/COMPUTER INTERFACE DESIGN

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

BUGS

(Computer)

(see Software Engineering)

BUSINESS

Jack Raiton, MBA, Senior Fellow, Department of Management in Science and Technology

CELLS

(Signals and mechanisms)

Dr. Matthew Sachs, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

CHLORINATED SOLVENTS

(Trichloroethylene, Polychloroethylene)

(see groundwater contamination)

CIVIL ENGINEERING

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

COASTAL SYSTEMS

(see also estuaries)

(Tides, tidal waves, watershed analysis, computer modeling/forecasting)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

COGNITION

(Augmented and Assisted)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

COMPUTATIONAL NEUROSCIENCE

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

COMPUTATIONAL SCIENCE

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

COMPUTER MODELING

(Of environmental contaminants/tidal ecosystems)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

COMPUTER PROGRAMMING LANGUAGES

Dr. Mark Jones, Associate Professor, Department of Computer Science and Engineering

COMPUTER VISION

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

CONSERVATION BIOLOGY

Dr. L.E.L. "Bets" Rasmussen, Research Professor, Department of Environmental and Biomolecular Systems

COPPER

(In enzymes)

Dr. Ninian Blackburn, Professor, Department of Environmental and Biomolecular Systems

DATA ANALYSIS

(Applied statistics, signal processing, neural networks)

Dr. Eric Wan, Associate Professor, Department of Computer Science and Engineering

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

**Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering
(Statistics, clustering, and visualization)**

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

**Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering
(Deductive databases)**

Dr. Juliana Freire, Assistant Professor, Department of Computer Science and Engineering

DATA COMPRESSION

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

DATAMINING

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

DIABETES

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

DIGITAL VIDEO

(see video technology)

DRINKING WATER

(Disinfection, water treatment)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

DRUGS

(Activated by laser light)

Dr. Ken Gregory, Associate Professor, Department of Biomedical Engineering

DYNAMICAL SYSTEMS

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

E-LEARNING

(see also Internet, education)

(Making more personal)

Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology

ECOSYSTEM MANAGEMENT

Dr. Antonio Baptista, Professor and Department Head, Environmental and Biomolecular Systems

(Integration of science in human health/ecological risk assessments)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

EDUCATION TRENDS

(Graduate science and engineering education)

Dr. Edward Thompson, Dean, OGI School of Science and Engineering

(Continuing education, programs for working professionals)

Dr. James Huntzicker, Head, Center for Professional Development and Department of Management in Science and Technology

(Integration of Science/Engineering for Sustainable Management)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

ELASTIN

(see biomaterials)

ELECTRON MICROSCOPY

Dr. Jack McCarthy, Assistant Professor, Department of Biomedical Engineering

ELEPHANTS

(Reproduction, preservation, pheromones)

Dr. L.E.L. (Bets) Rasmussen, Research Professor, Department of Environmental and Biomolecular Systems

ENDANGERED SPECIES

(see conservation biology)

ENERGY

Dr. Adrian Roberts, Senior Advisor, Department of Management in Science and Technology

ENVIRONMENTAL DISPUTES

(Columbia River)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

(Role of scientific case studies in solving)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

ENVIRONMENTAL HEALTH

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

ENVIRONMENTAL SCIENCE

(Future of and trends)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

(From command and control to sustainable management)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

ENZYMES

(Structure of enzymes and proteins)

Dr. Ninian Blackburn, Professor, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Pierre Moenne-Loccoz, Assistant Professor, Department of Environmental and Biomolecular Systems

ERROR MODELING

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

ESTUARIES

(see also coastal systems)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

FINANCE

Jack Raiton, MBA, Senior Fellow, Department of Management in Science and Technology

FLAT PANEL DISPLAYS

Dr. Jack McCarthy, Associate Professor, Department of Biomedical Engineering

FREE RADICALS

(In biology)

Dr. James Whittaker, Associate Professor, Department of Environmental and Biomolecular Systems

(In water treatment)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

FUNCTIONAL PROGRAMMING LANGUAGES

Dr. Mark Jones, Associate Professor, Department of Computer Science and Engineering

FUNGUS

(see genetics)

GASOLINE LEAKS

(Environmental effects of)

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

GENETICS

(Fungal)

Dr. Matthew Sachs, Professor, Department of Environmental and Biomolecular Systems

(Bacterial and microbial)

Dr. Peter Zuber, Professor, Department of Environmental and Biomolecular Systems

Dr. Michiko Nakano, Research Associate Professor, Department of Environmental and Biomolecular Systems

GLOBAL WARMING

(see also greenhouse effect, methane, air pollution)

(Ozone formation, atmospheric chemistry of trace gases)

Dr. Reinhold Rasmussen, Professor, Department of Environmental and Biomolecular Systems

GREENHOUSE EFFECT

Dr. Reinhold Rasmussen, Professor, Department of Environmental and Biomolecular Systems

GROUNDWATER

(Contamination)

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

(Surface water pollution and cleanup)

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

HAZE

Dr. Reinhold Rasmussen, Professor, Department of Environmental and Biomolecular Systems

HEALTH INFORMATION TECHNOLOGY

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

HEART

(Medical treatments with drugs)

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

(Medical treatments with lasers)

Dr. Kenton Gregory, Associate Professor, Department of Biomedical Engineering

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Steven Jacques, Professor, Department of Biomedical Engineering

(Arrhythmia Treatment/Prevention; Heart Rhythm Analysis)

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

HEMES

Dr. Pierre Moenne-Loccoz, Assistant Professor, Department of Environmental and Biomolecular Systems

HIGHLY-EMBEDDED COMPUTER SYSTEMS

Dr. Mark Jones, Associate Professor, Department of Computer Science and Engineering

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

HIGH-TECHNOLOGY INDUSTRY

(Relationship with higher education)

Dr. Jim Huntzicker, Head, Center for Professional Development and Department of Management in Science and Technology

(Role in a Sustainable Future)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

HOME HEALTH

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

HUMAN/COMPUTER INTERACTION

(Applications to mobile computing, virtual reality simulations)

Dr. Phil Cohen, Professor, Department of Computer Science and Engineering

Dr. Sharon Oviatt, Professor, Department of Computer Science and Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering
Dr. Yonghong Yan, Associate Professor, Department of Computer Science and Engineering
Dr. Peter Heeman, Assistant Professor, Department of Computer Science and Engineering

HUMAN PERFORMANCE MODELING

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

HUMAN RESOURCES MANAGEMENT

(In healthcare and high-tech organizations)

Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology

HYPERTENSION

(Physiology of)

Dr. Ninian Blackburn, Professor, Department of Environmental and Biomolecular Systems

IMAGING

(Image and video processing, pattern recognition, machine recognition, machine learning, statistical vision, biomedical imaging)

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

INFORMATION AND DATA FUSION

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

INFORMATION RETRIEVAL

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

INFORMATION SCIENCE

Dr. Edward Thompson, Dean, OGI School of Science and Engineering

INFORMATION SHARING

(Across government agencies)

Dr. Nicole Steckler, Associate Professor, Department of Management in Science and Technology

Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology

INFORMATION THEORETIC LEARNING

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

INTERPERSONAL COMMUNICATIONS

(In high-tech organizations)

Dr. Nicole Steckler, Associate Professor, Department of Management in Science and Technology

KNOWLEDGE MANAGEMENT

Dr. Nicole Steckler, Associate Professor, Department of Management in Science and Technology

Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology

LANDFILLS

(see groundwater contamination)

LASERS

Dr. Kenton Gregory, Associate Professor, Department of Biomedical Engineering

Dr. Steven Jacques, Professor, Department of Biomedical Engineering

Dr. Sean Kirkpatrick, Associate Professor, Department of Biomedical Engineering

LEADERSHIP EFFECTIVENESS

(Tools for diagnosing/improving)

Dr. Nicole Steckler, Associate Professor, Department of Management in Science and Technology

LIPIDS

(Metabolism and transport)

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

MACHINE LEARNING

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

MAMMALS

(see also animal communication)

(Metabolism)

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

MANAGEMENT

Jack Raiton, MBA, Senior Fellow, Department of Management in Science and Technology

MATHEMATICAL ANALYSIS

(Analytic and computer)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

(Neurophysiological modeling)

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

METABOLISM

Dr. Michiko Nakano, Research Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

METALS

(In biology; role in cells)

**Dr. James Whittaker, Associate Professor, Department of
Environmental and Biomolecular Systems**

**Dr. Ninian Blackburn, Professor, Department of Environmental and
Biomolecular Systems**

**Dr. Pierre Moenne-Loccoz, Associate Professor, Department of
Environmental and Biomolecular Systems**

METHANE

(Effects on atmosphere)

**Dr. Reinhold Rasmussen, Professor, Department of Environmental and
Biomolecular Systems**

MOBILE COMPUTING

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

MOLECULAR BIOLOGY

**Dr. Matthew Sachs, Associate Professor, Department of Environmental
and Biomolecular Systems**

**Dr. Gebre Woldegiorgis, Associate Professor, Department of
Environmental and Biomolecular Systems**

MTBE

(see groundwater)

MULTIMEDIA COMPUTER SYSTEMS

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

MULTIMODAL INTERFACES

(see also human/computer interaction)

**Dr. Sharon Oviatt, Professor, Department of Computer Science and
Engineering**

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

NANOTECHNOLOGY

(For Sustainable Development)

**Dr. William Glaze, Professor, Department of Environmental and
Biomolecular Systems**

(For the environment)

**Dr. Paul Tratnyek, Associate Professor, Department of Environmental
and Biomolecular Systems**

NATURAL LANGUAGE PROCESSING

Dr. Peter Heeman, Assistant Professor, Department of Computer Science and Engineering

Dr. Brian Roark, Assistant Professor, Department of Computer Science and Engineering

NEURAL NETWORKS

(see also artificial intelligence)

Dr. Todd Leen, Professor, Department of Computer Science and Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

NICOTINE

(see tobacco)

OBESITY

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

OBJECT-ORIENTED LANGUAGES/PROGRAMMING

Dr. Richard Fairley, Professor, Department of Computer Science and Engineering

OIL SPILLS

(see gasoline leaks, computer modeling of environmental contaminants)

ONLINE DEGREES

Jack Raiton, MBA, Senior Fellow, Department of Management in Science and Technology

OPTICS

(Disease detection via light/lasers)

Dr. Steve Jacques, Professor, Department of Biomedical Engineering

Dr. Sean Kirkpatrick, Associate Professor, Department of Biomedical Engineering

OXYGEN

(Chemistry of)

Dr. Ninian Blackburn, Professor and Department Head, Department of Environmental and Biomolecular Systems

PARALLEL PROCESSING

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

PATTERN RECOGNITION

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

PERCEPTION

(Visual and auditory)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

PERCEPTUAL INTERFACES

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Phil Cohen, Professor, Department of Computer Science and Engineering

PHOTOMEDICINE

(see also drugs)

(Laser light to activate drugs)

Dr. Kenton Gregory, Associate Professor, Department of Biomedical Engineering

POLLUTION

(Pesticides, explosives, propellants, TNT, and perchlorate)

Dr. Paul Tratnyek, Associate Professor, Department of Environmental Science and Engineering

(Chlorinated solvents, fate of organic pollutants in the environment, fuel additives)

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associated Professor, Department of Environmental and Biomolecular Systems

(Biodegradation of chlorinated pollutants)

Dr. Peter Zuber, Professor, Department of Environmental and Biomolecular Systems

(Integrated Approaches to Prevention/Remediation)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

PORPHYRINS

(see Hemes)

PROTEINS

(Structure and function)

Dr. Ninian Blackburn, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Pierre Moenne-Loccoz, Assistant Professor, Department of Environmental and Biomolecular Systems

(Engineering and expression)

Dr. Peter Zuber, Professor, Department of Environmental and Biomolecular Systems

Dr. Gebre Woldegiorgis, Associate Professor, Department of Environmental and Biomolecular Systems

PSYCHOACOUSTICS

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

PSYCHOPHYSICS

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

RADIATION

(Synchrotron radiation sources)

Dr. Ninian Blackburn, Professor and Department Head, Department of Environmental and Biomolecular Systems

REAL TIME ANALYSIS

(see time series analysis)

REMEDIATION

(Environmental)

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

RESEARCH AND DEVELOPMENT

(Funding from U.S. Advanced Research Projects Agency)

Dr. Ed Thompson, Dean, OGI School of Science and Engineering

(Funding from National Institutes of Health)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

(Environmental/Ecological Health Protection Through)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

RISK ASSESSMENT

(see also mathematical analysis)

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

ROBOTICS

(Future of)

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Eric Wan, Associate Professor, Department of Computer Science and Engineering

RIVERS

(Columbia River in Oregon/Washington)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

SALMON

(see also streams)

(Habitat modeling)

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

(Integration of and Human Welfare Benefits into Estuary Management)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

SCIENCE EDUCATION
(see education)

SEMICONDUCTORS
(Design, technology transfer)
Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

SENSOR ARRAYS
(Reliability and fault detection)
Dr. Todd Leen, Professor, Department of Computer Science and Engineering
Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

SENSOR FUSION
Dr. Misha Pavel, Professor, Department of Biomedical Engineering
Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering
Dr. Deniz Erdogan, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

SHARING EXPERTISE
(see also information sharing)
Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology
Dr. Niki Steckler, Associate Professor, Department of Management in Science and Technology

SHARKS
(Behavior, reproduction/hormones)
Dr. L.E.L. (Bets) Rasmussen, Biochemist, Department of Environmental and Biomolecular Systems

SIGNAL PROCESSING
(Algorithms/architectures for neural networks and adaptive signal processing; applications to time-series prediction, speech enhancement, adaptive control and telecommunications)
Dr. Eric Wan, Associate Professor, Department of Computer Science and Engineering
Dr. Todd Leen, Professor, Department of Computer Science and Engineering
Dr. Marwan Jabri, Professor, Department of Biomedical Engineering

Dr. Misha Pavel, Professor, Department of Biomedical Engineering
Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tamara Hayes, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

(Information theoretic and nonlinear signal processing)

Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

SMOKING

(see tobacco)

SOFTWARE

(Design/programming/quality, reliability of critical systems)

Dr. Richard Fairley, Professor, Department of Computer Science and Engineering

Dr. Mark Jones, Associate Professor, Department of Computer Science and Engineering

SOFTWARE ENGINEERING

Dr. Richard Fairley, Professor, Department of Computer Science and Engineering

SPECTROSCOPY

(Raman and FTIR)

(see also X-ray spectroscopy)

Dr. Ninian Blackburn, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. Pierre Moenne-Loccoz, Associate Professor, Department of Environmental and Biomolecular Systems

SPEECH RECOGNITION

(Computer)

Dr. Jan van Santen, Professor, Department of Biomedical Engineering and Head of Department of Computer Science and Engineering

Dr. John-Paul Hosom, Assistant Professor, Department of Biomedical Engineering

Dr. Yonghong Yan, Associate Professor, Department of Computer Science and Engineering

Dr. Phil Cohen, Professor, Department of Computer Science and Engineering

Dr. Peter Heeman, Assistant Professor, Department of Computer Science and Engineering

Dr. Brian Roark, Assistant Professor, Department of Computer Science and Engineering

Dr. Miguel Carreira-Perpinan, Assistant Professor, Department of Computer Science and Engineering

SPEECH SYNTHESIS

(Computer)

Dr. Jan van Santen, Professor, Department of Biomedical Engineering and Head of Department of Computer Science and Engineering

SPORES

(Biological reproduction of bacteria)

Dr. Peter Zuber, Professor, Department of Environmental and Biomolecular Systems

STROKE

(Lasers to destroy dangerous clots during strokes)

Dr. Ken Gregory, Associate Professor, Department of Biomedical Engineering

SUPERCOMPUTERS

(see parallel processing, computational science)

SUSTAINABLE DEVELOPMENT

(see also nanotechnology, environmental science, education trends)

(Role of science education/research and development in process)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

TECHNOLOGY MANAGEMENT

Dr. Adrian Roberts, Senior Advisor, Department of Management in Science and Technology

TECHNOLOGY TRANSFER

Dr. Edward Thompson, Dean, OGI School of Science and Engineering

Dr. Adrian Roberts, Senior Advisor, Department of Management in Science and Technology

(In Achieving Sustainable Development)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

TELECOMMUNICATIONS

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering
Dr. Eric Wan, Associate Professor, Department of Computer Science and Engineering
Dr. Sharon Oviatt, Professor, Department of Computer Science and Engineering

THIN FILMS

(For microelectronic applications)

Dr. Jack McCarthy, Assistant Professor, Department of Biomedical Engineering

TIME SERIES ANALYSIS

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering
Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering
Dr. Deniz Erdogmus, Assistant Professor, Departments of Computer Science and Engineering and Biomedical Engineering

TISSUE ENGINEERING

(Elastin for replacement body parts)

Dr. Kenton Gregory, Associate Professor, Department of Biomedical Engineering

TOBACCO

(Nicotine absorption)

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

TOXINS

(In drinking water)

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems
Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems
Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

(In soil and air)

Dr. Richard Johnson, Associate Professor, Department of Environmental and Biomolecular Systems

(New Approaches to Integrated Assessments of Human/Ecological Effects)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

UNMANNED VEHICLES

Dr. Eric Wan, Associate Professor, Department of Computer Science and Engineering

USER-CENTERED INTERFACE DESIGN

Dr. Misha Pavel, Professor, Department of Biomedical Engineering
Dr. Sharon Oviatt, Professor, Department of Computer Science and Engineering

Dr. Phil Cohen, Professor, Department of Computer Science and Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

VIDEO TECHNOLOGY

(Future of)

Dr. Marwan Jabri, Professor, Department of Biomedical Engineering
Dr. Xubo Song, Assistant Professor, Department of Computer Science and Engineering

Dr. Tran Thong, Assistant Professor, Department of Biomedical Engineering

VIRUSES

(In computers)

(see bugs)

VISIBILITY

(see haze)

VISUALIZATION

Dr. Misha Pavel, Professor, Department of Biomedical Engineering

WATER POLLUTION

(Fuel additives, fate of organic compounds in the environment)

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

WATER QUALITY

Dr. Paul Tratnyek, Associate Professor, Department of Environmental and Biomolecular Systems

Dr. Antonio Baptista, Professor and Department Head, Department of Environmental and Biomolecular Systems

Dr. James Pankow, Professor, Department of Environmental and Biomolecular Systems

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

WATER RESOURCES

(Integrated Management for Human/Ecological Welfare)

Dr. William Glaze, Professor, Department of Environmental and Biomolecular Systems

WORK/FAMILY POLICIES

(For high-tech companies)

Dr. Marianne Koch, Associate Professor, Department of Management in Science and Technology

X-RAY SPECTROSCOPY

Dr. Ninian Blackburn, Professor and Department Head, Department of Environmental and Biomolecular Systems

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