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Research Areas of Interest :

1. Guidance and Control
2. Spacecraft Attitude Control
3. Aerospace systems
4. Unmanned Aerial Vehicles(UAVs)
5. Flight dynamics and control

Dong-Ho Cho, Professor



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Research Areas of Interest :

- 1. Wireless Network**
- 2. Communication Protocol**

Hyoukryeol Choi, Professor



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Research Areas of Interest :

- 1. Field Robotics**
- 2. Dextrous Hand**
- 3. Haptic Display**
- 4. Artificial Muscle Actuator**
- 5. Tactile Sensor**
- 6. Electro Active Polymer Actuator**

Jae Weon Choi, Associate Professor



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Research Areas of Interest :

- 1. Linear Time-Varying System**
- 2. Flight Control**
- 3. Guidance, Navigation and Control Systems For Vehicles**

Seung-Bok Choi, Professor



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Research Areas of Interest :

1. Robust Control
2. Vibration Control
3. Smart Sensors And Actuators
4. Functional Mechanisms Using Electrorheological and Magneto

Guang-Ren Duan, Professor



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Research Areas of Interest :

1. Robust Linear Control Systems Design
2. Eigenstructure Assignment
3. Descriptor Linear Systems
4. Navigation, Guidance And Control

Naira Hovakimyan, Associate Professor



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Research Areas of Interest :

- 1. Adaptive Control and Identification**

Bin Jiang, Professor



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Research Areas of Interest :

- 1. Fault diagnosis and fault tolerant control with applications to induction motor and chemical process.**
- 2. Robust/adaptive control for nonlinear systems with applications to flexible systems.**
- 3. Robust/H-infinity control for time-delay systems.**

Hoon Kang, Professor



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Research Areas of Interest :

- 1. Intelligent Robot & Computer Vision**
- 2. Computational Intelligence (NN,FS,GA,GP,ES,EP)**
- 3. Artificial Life (CA) & Emotional Intelligence**

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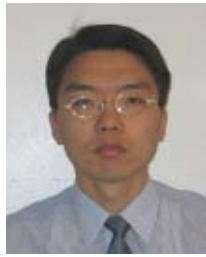
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Research Areas of Interest :

1. Intelligent Control and Modeling
2. Intelligent Robot
3. Micro Robotics

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Research Areas of Interest :

1. Computational Biology (UMMS)
2. Multiscale Composites
3. Protein Folding
4. BioMEMS
5. Bioinstruments
6. Robotics

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Research Areas of Interest :

- 1. Mechatronics**
- 2. Real-Time Control**
- 3. Nanoscale Control**
- 4. Network-Based Control and Manufacturing**

In-Beum Lee, Professor



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Research Areas of Interest :

- 1. Process Control**
- 2. Process Monitoring**
- 3. Process Simulation**
- 4. Computer-Aided Process Design**

Jietae Lee, Professor



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Research Areas of Interest :

- 1. Process Modeling and Identification**
- 2. Control System Design**
- 3. PID Controller Tuning**

Seung Hi Lee, Dr.



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Research Areas of Interest :

1. Robust multivariable control
2. Digital control system
3. Advanced control applications to electromechanical systems

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Research Areas of Interest :

1. Mobile Robot Localization/Navigation
2. Robot Sensing/Control

Young IL Lee, Professor



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Research Areas of Interest :

1. Model Predictive Control
2. PID Auto-Tuning
3. Home Network

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Research Areas of Interest :

1. Robust and Optimal Control
2. Real-Time Control
3. Mechatronics

Fumitoshi Matsuno, Professor



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Research Areas of Interest :

1. Rescue Robotics
2. Distributed Parameter Systems
3. Space Engineering

Reza Moheimani, Senior Lecturer



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Research Areas of Interest :

1. Smart Structures
2. Sensors and Actuators

3. Vibration Control

Sung-Kwun Oh, Professor



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Research Areas of Interest :

- 1. Fuzzy theory and neural networks**
- 2. Computational intelligence**
- 3. Soft computing**
- 4. Intelligent systems**
- 5. Automation systems**

Yoshito Ohta, Professor



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Research Areas of Interest :

- 1. Control System Design based on Duality Theory**
- 2. System Analysis and Control using Invariant Sets**
- 3. System Identification and Model Reduction**

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Research Areas of Interest :

1. Control of Flexible Structures
2. Multisensor Data Fusion
3. Robotics

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Research Areas of Interest :

Sangdeok Park, Chief Research Engineer



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Research Areas of Interest :

1. Control of Autonomous Flying Robot
2. Analysis and Control of Flexible Manipulators/Structures
3. Design and Control of Pneumatic/Hydraulic Systems

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Research Areas of Interest :

Dynamics and Control of Flexible Structures

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Research Areas of Interest :

- 1. Micro/Nano Robotics**
- 2. MEMS/NEMS**
- 3. Bionanotechnology**
- 4. Tele-Robotics**

Kim A. Stelson, Professor



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Research Areas of Interest :

- 1. Flexible Automation And Closed Loop Control**
- 2. Computer-Aided Process Planning**
- 3. Computer-Aided Integration of Engineering**

Satoshi Tadokoro, Professor



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Research Areas of Interest :

- 1. Rescue Robotics**
- 2. Virtual Reality**
- 3. Advanced Actuators**

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Research Areas of Interest :

- 1. Adaptive Control**

2. Nonlinear Control
3. Multivariable Control
4. Robotics

A. Galip Ulsoy, Professor



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Research Areas of Interest :

1. Control of Axially Translating or Rotating Elastic Systems
2. Computer Control Systems
3. Adaptive Control

Lihua Xie, Professor



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Research Areas of Interest :

1. Robust and Optimal Control
2. Networked Control Systems
3. Filtering and Estimation
4. Delay Systems

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Research Areas of Interest :

1. Robust control
2. Fault-tolerant control
3. Linear systems
4. Nonlinear control systems
5. Flight control

Bin Yao, Associate Professor



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Research Areas of Interest :

1. Design and Coordinated Control of Intelligent and Precision
Electro-Mechanical/Hydraulic Systems
2. Robotics
3. Optimal Adaptive and Robust Control

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Research Areas of Interest :

- 1. Automotive Dynamics and Control**
- 2. Nonlinear System Control**
- 3. Control Theory**

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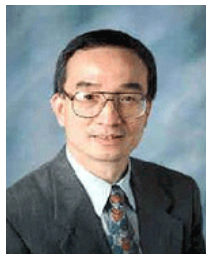
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Research Areas of Interest :

- 1. Telemedicine and Hospital Information System**
- 2. Medical Image Processing**
- 3. Biomedical Instrumentation**

Yuan Fang Zheng, Professor and Chairman



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Research Areas of Interest :

- 1. Wavelet Transform**
- 2. Content-Based Compression**
- 3. Robotics**

J. Jim Zhu, Professor



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Research Areas of Interest :

1. Nonlinear and Linear Time Varying System Theory
2. Flight Control Systems
3. Signal Processing

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