Flight Dynamics and Control Laboratory
http://fdcl.snu.ac.kr
School of Mechanical and Aerospace Engineering
Seoul National University

Faculty
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Research Interests
- Intelligent Integrated Flight Control System Design
- Guidance and Autopilot
- Trajectory Optimization

Biographical Information
- 1983, B.S., Aeronautical Engineering, Seoul National University
- 1985, M.S., Aeronautical Engineering, Seoul National University
- 1990, Ph.D., Aerospace Engineering, Texas A&M University
- 1990-1991, Research Associate, Texas A&M University
- 1992-1996, Assistant Professor, Seoul National University
- 1996-2002, Associate Professor, Seoul National University
- 2002-Current, Professor, Seoul National University
- 2011-Current, Director, Institute of Advanced Aerospace Technology

Research Topics I: Vision-based Autonomous UAV
- Vision-based Automatic Take-off/Landing System (NRL)
- Vision-recognition & Vision-based Collision Avoidance

Research Topics II: Multiple UAVs
- Distributed Multiple Unmanned Aerial Vehicles
- UAV Terrain Following for Cooperative Missions

Research Topics III: Fault Detection, Isolation and Reconfiguration
- Actuator FDI&R
- Sensor FDI&R

Research Topics IV: Control & Guidance Applications
- Torpedo Guidance & Control
- Missile Guidance & Control
- Problem Formulation
- Precise Tracking and Monitoring of Multi-composite Orbits
- High-altitude Wind-shear Load Prediction Method and a Load-relief Algorithm for Launch Operations
- Simulation Result (Salvo Attack)

Research Facilities
- Fixed-wing UAV: SNUACE
- Rotating-wing UAV: Quadrotor
- Rotating-wing UAV: Helicopter
- GCS
- HILS System
- HILS Scheme