- ❏ Areas of Research
  - ◆ Port engineering
    - o System design and logistics network
    - o Floating system design and engineering
    - o High speed loading/unloading system
    - o Automatic berthing and mooring system
    - o Integrated operation & management system
  - ◆ Ocean plant engineering
    - o Ocean plant design technology
    - o Risk and reliability analysis
    - o Dynamic process modeling and control system design
    - o Economic evaluation with overall process cost estimation
  - ◆ Underwater vehicle technology
    - o Underwater dynamics
    - o Underwater robots
    - o Deep sea operation technology
    - o Marine structural response to underwater explosions
  - ◆ Modeling and simulation of ocean system
    - o IT(Information Technology) applications to ocean systems
    - o RFID (Radio Frequency Identification)
    - o CAD/CAM
    - o PLM (Product Lifecycle Management) system
  - ◆ Shipping construction management
    - o Shipping & logistics
    - o Ship production systems engineering
    - o Accuracy control, Tolerance analysis and synthesis
    - o Design methodology and optimization techniques
  - ◆ Marine environment system
    - o EEWS (Energy, Environment, Water, and Sustainability)
    - o Maritime regulations
    - o Engineering mechanics for ocean environment