- **Research interests**

  - Modelling, control and optimisation of complex systems

  - Applications in renewable sector: hybrid offshore renewable, wind turbine control, airborne wind, LIDAR-based and aeroelastic tailoring blade WT control, tidal turbine control, offshore electrical infrastructure optimisation

- **Research expertise**

  - Model development for complex dynamic systems

  - Model-based system analysis: uncertainty, sensitivity, bifurcation, robustness analysis

  - Advanced control and optimisation

  - Optimal and robust experimental design

  Participation in Task 50: WP3
  Modelling, control, optimization, integration of airborne wind
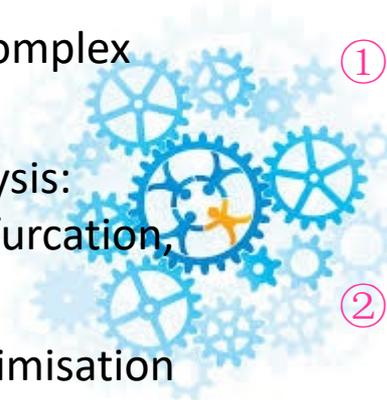
- **Recent work in hybrid energy systems**

  ① Integrated control and power management of hybrid renewable systems on offshore floating platform (wind, solar PV, diesel, energy storage)

  ② Optimisation of industrial-scale offshore wind farm infrastructure (wind, energy storage, grid)

  ③ Optimal energy management of smart energy hub (combined heat and power, gas, energy storage, grid)

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