• Design and explore low power, light-weight, area-efficient customized architectures for embedded sensing, and shape morphing systems

• Optimizations to reduce power and area consumption
  – Customized functional units
  – Customized communication links
  – Homogeneous and heterogeneous architectures

• Dynamic / partial reconfiguration

• Designing fault-tolerant architectures
  – Fault-tolerance for both sensing and processing phases

Integration in UAS design - Light-weight low power circuit design for embedded sensing, and shape morphing systems