University Defence Research Collaboration (UDRC) for Signal Processing

Themed Meeting

Underwater Sensing, Signal

Processing and Comms

16th May 2017





University Defence Research Collaboration (UDRC)

Collaborative Centre for excellence for Signal Processir

Aims:

- World-class research
- Long-term sustainable skills
- Community of Practice

Approach:

- Joint funding with EPSRC
- Dstl technical leadership
- Close, early engagement with industry

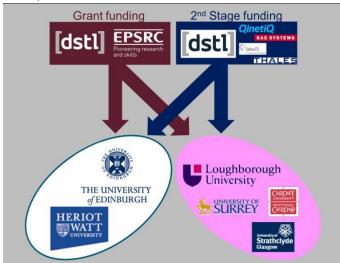


Phase 2

- EPSRC / MOD Joint funding £8M over 5 years (2013 2018)
- 2 Consortia, totalling 8 Universities.
- Consortium Coordinator University of Edinburgh
- Started in April 2013

Approach

- Joint programme with EPSRC
 - Requires strategic technical alignment between MOD and Research Council
 - Requires work at UNCLASSIFIED
- Technical Challenge led research
- Provision for follow-on funding
 - Parallel contract with consortium leads







UDRC Portfolio – Phase 2

Edinburgh research partnership

- WP1: Sparse Representation and Compressed Sensing
- WP2: Distributed multi-sensor processing
- WP3: Unified detection, localisation and classification in complex environments
- WP4: Context-driven behaviour monitoring and anomaly detection
- WP5: Network enabled sensor management
- WP6: Efficient computation of complex signal processing algorithms

Lboro, Surrey, Strathclyde, & NCL Cardiff

- WP1: Automated statistical anomaly detection and classification in high dimensions for the networked battlespace
- WP2: Handling Uncertainty and incorporating domain knowledge
- WP3: Signal Separation and broadband distributed Beamforming
- WP4: MIMO and Distributed sensing
- WP5: Low complexity algorithms and efficient implementation

Other ways of engaging

Annual Conference







Sensor Signal Processing for Defence

Collaboration (UDRC) in Signal Processing. SSPD 2017 aims to bring together researchers from academia,

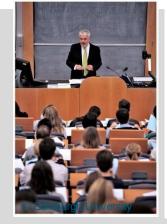
industry and government organisations interested in Signal Processing for Defence.

Other ways of engaging

UDRC Website



Educating the next generation





Books



Articles







End of Project Showcase











