UDRC Communication and Engagement

Janet Forbes, UDRC Project Manager

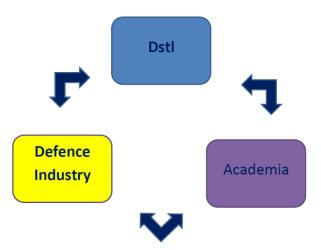
4th December 2013





Communication and Engagement

- Two-way communication of research through digital media and engagement activities
 - Strengthen the Research Collaboration
 - · Creation of links with researchers and defence stakeholders
 - Allow a pull-through of innovations for future exploitation





Coordination

- Website <u>www.mod-udrc.org</u>
- Industrial Affiliation Group
- Sensor Signal Processing for Defence (SSPD) Conference Series

- Summer Schools
- Themed Meetings
- Industrial Days
- UDRC Launch



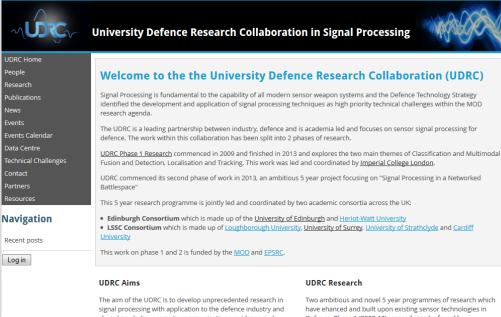
Website

www.mod-udrc.org

- Research
- People
- Calendar
- **Events**
- News
- Data area

Next

- **Publications**
- Resources
- Data



share knowledge, promote communications, guidance and training. The formation of consortia will bring together researchers from across the different aspects of signal processing to address the research challenges of operating in a networked battlespace. This will form part of a wider collaborative centre of excellence for signal processing that embraces academia, Research and Technology Organisations, defence manufacturing industries and the Defence Technology Centres. This collaboration will support a cutting edge signal and data processing capability in
• Edinburgh Consortium work programme the UK, and lead to potentially greater research impact.

Two ambitious and novel 5 year programmes of research which have ehanced and built upon existing sensor technologies in Defence. Phase 1 (2009-13) research can be found here.

Phase 2 Signal Processing in a Networked Battlespace will deliver integrated multi-sensor systems as well as limiting data overload and maximising data relevance within the network, through novel acquisition, processing and sensor management.

Our Research Work Programmes are split across:

- LSSC Consortium work programme



LATEST NEWS

Read the latest news from the UDRC...

LATEST PUBLICATIONS

LATEST EVENTS

Our Research Publications are split across: Check out the latest UDRC events...

- Edinburgh Consortia Publications
- LSSC Consortium Publications
- · Phase 1 (2009-13) Research Publications

Industrial Affiliates

Mailing List - Receiving updates on news and events from

UDRC

- Posters
- Publications
- UDRC Events
- Related Events
- Annual Reports
- Data
- Find an expert
- Come and talk with us



Sensor Signal Processing for Defence Conference 2014

www.sspdconference.org

Location: Edinburgh

Date: 8th and 9th September 2014

To bring together researchers from academia, industry and government organisations

To discuss the latest developments in Signal Processing for Defence.

Technical sponsors: Signal Processing Society and proceedings will be indexed in IEEE XPLORE

Important Dates

Submission of Papers Deadline: 4th April 2014

Notification of Paper Acceptance Due: 4th June 2014

Final version of paper due: 4th August 2014





Location : Postgraduate Centre, Heriot-Watt University, Edinburgh

Week commencing 23rd June 2014

This course is aimed at researchers in defence, industry, government and academia with interests in **Signal Processing for Defence**.

- Improve knowledge
- Theoretical learning into practical engineering applications.
- Focal point for research in Signal Processing for Defence
- Stimulate new collaborations

Finite Set Statistics Summer School

Why Finite Set Statistics?

Used for multi-object Bayesian estimation (modelling and derivation of multi sensor/multi-target detection and tracking algorithms)

The Courses Covered:

- Concepts in probability theory
- Stochastic filtering
- Functional analysis
- Variational calculus
- Point process theory
- Multi-object estimation
- Practical implementations with sequential Monte Carlo and Gaussian mixture techniques



UK and USA Editions

- July and August 2013
- 5 days

Heriot Watt University/ Kirtland USAF Base Academic/Defence/Industry attendees

- Excellent feedback and interest in more Summer Schools.
- Attendees all reported an enhanced understanding.

Themed Meetings

Lively technical meetings/workshops

- Source Separation and Sparsity (held Oct 2013)
- Uncertainty and anomaly detection (May 2014)
- Autonomous systems and processing (Nov 2014)
- Hardware and implementation (Feb 2015)
- Exploitation (Nov 2015)



Industrial Days

- Annual
- First event scheduled 27th June 2014
- Showcase work from UDRC
- Talks, Posters, Demos
- Opportunity to discuss research collaborations



UDRC Calendar 2014

2014	UDRC Events
January	
February	
March	
April	
May	UDRC Themed Meeting:-Uncertainty and anomaly
	detection - 28/5/14
June	UDRC Summer School - 23/6/14 to 27/6/14
	UDRC Industrial Day - 27/6/14
July	
August	
September	SSPD Conference – 8/9/14 & 9/9/14
October	
November	UDRC Themed Meeting:- Autonomous systems
	and signal processing - date tbc.
December	

UDRC Launch

Posters/Presentations can be viewed at:

<u>www.mod-udrc.org/events/20131204-the-sensor-signal-processing-for-defence-launch</u>

- Evaluation forms
- Any questions/queries:



Janet Forbes: 0131 650 5706

janet.forbes@ed.ac.uk