

SPIE Security & Defence Conference

Heriot-Watt University Presentations
24 – 27 September 2012

Monday 24th September

Session No.	Title	Research by	Time
SESSION 8: <i>Active Imaging, Processing and Communication</i>	Depth imaging using single-photon detection	Gerald S. Buller, <i>Heriot-Watt University</i>	2:00 - 2:40 PM
	Evaluation of image deblurring methods via a classification metric	Daniele Perrone, <i>Heriot-Watt University</i> David Humphreys, Robert A. Lamb, <i>SELEX Galileo Ltd.</i> Paolo Favaro, <i>Heriot-Watt University</i>	3:20 - 3:40 PM
SESSION 9: <i>Emerging Technologies</i>	Mid-infrared photonics by ultrafast laser microfabrication in chalcogenide glasses	Airán Ródenas, John McCarthy, Henry T. Bookey, Robert R. Thomson, Ajoy K. Kar, <i>Heriot-Watt University</i>	4:40 - 5:00 PM

Tuesday 25th September

Session No.	Title	Research by	Time
SESSION 1: <i>Optical Materials and Optical Systems</i>	Multiscale optics for wide field-of-view thermal imaging	Gonzalo Muyo, <i>Heriot-Watt University</i> Alistair Gorman, Andrew R. Harvey <i>University of Glasgow</i> Nicholas K. Bustin, Andrew P. Wood, <i>Qioptiq Ltd.</i>	9:10 - 9:30 AM
SESSION 13: <i>Implementation of QKD and Other Quantum Protocols</i>	Experimental demonstration of quantum digital signatures	Patrick J. Clarke, Robert J. Collins, Vedran Dunjko, Erika Andersson, Gerald S. Buller, <i>Heriot-Watt University</i> John Jeffers, <i>University of Strathclyde</i>	11:40 AM - 12:00 PM

SESSION 13: <i>Implementation of QKD and Other Quantum Protocols</i>	High-dimensional spatial entanglement observed with an electron multiplying CCD camera	Daniel S. Tasca, Matthew P. Edgar, <i>University of Glasgow;</i> Frauke Izdebski, Ryan E. Warburton, Gerald S. Buller, <i>Heriot-Watt University</i> Jonathan Leach, Megan Agnew, Robert W. Boyd, <i>University of Ottawa,</i> Miles J. Padgett, <i>University of Glasgow</i>	2:40 - 3:00 PM
	Single photon detection and quantum cryptography	Gerald S. Buller, Patrick J. Clarke, Robert J. Collins, <i>Heriot-Watt University</i>	3:50 - 4:20 PM

Wednesday 26th September

Session No.	Title	Research by	Time
SESSION 3: <i>Active Systems and Technology I</i>	Kilometre range depth imaging at 1550nm wavelength using a superconducting nanowire single photon detector	Nathan R. Gemmell, Aongus McCarthy, Ximing Ren, Nils J. Krichel, Michael G. Tanner, Robert H. Hadfield, Gerald S. Buller, <i>Heriot-Watt University</i>	9:20 - 9:40 AM
	Intracavity, common resonator, Nd:YAG pumped KTP OPO	James D. Beedell, <i>SELEX Galileo Ltd. and Heriot-Watt University</i> David Legge, Ian F. Elder, <i>SELEX Galileo Ltd.</i> Duncan P. Hand, <i>Heriot-Watt University</i>	10:40 - 11:00 AM

Thursday 27th September

Session No.	Title	Research by	Time
SESSION 9: <i>Processing: Detection and Tracking</i>	Vehicle detection using multimodal imaging sensors from a moving platform	Christopher N. Dickson, <i>Thales Optronics Ltd. and Heriot-Watt University</i> Matthew Kitchin, Barry Connor <i>Thales Optronics Ltd.</i> Andrew M. Wallace, <i>Heriot-Watt University</i>	9:20 - 9:40 AM

For more information on these talks,
or to discuss collaboration with
Heriot-Watt University, please contact Iain McEwan,
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