



Universidade do Minho

ECIW 2009

8th European Conference on i-Warfare and Security

Military Academy, Lisbon, Portugal

6-7 July 2009

Conference Chair: **Henrique Santos** Universidade do Minho, Braga, Portugal

Keynote speaker: **Dr Paulo Verissimo**, LASIGE, University of Lisboa, Portugal

Call for Papers

Mini Track: Network Enabled Operations

Understanding how organizational structures would evolve as a result of the increasing use of information and networking technologies should be considered a major challenge in this information era where social networks play a central role.

Network Enabled Operations (NEO) is currently a discussion topic within both Armed Forces and Enterprises. The current emphasis on NEO originates a certain need to clarify the benefits of such operations. There is currently no universally accepted understanding of NEO, due to the complex nature of the issue. However, the concept is heavily hypothesis driven, characterized by high expectations of possible effects that may be achieved through networking (technological and organizational). The fundamental hypotheses of the concept are yet to be validated, and the benefits of NEO on military operations and enterprises must be put in concrete terms.

Developing models and tools to obtain an information processing view of an organization and analyzing how the use of these technologies would transform its value chain will help us to understand the differences in how work is conducted in net-enabled organizations. Research results derived from recent experiments showed, for example, that the emerging business model would be a value network where multiple enterprises would form a collaborative organization to deliver a unique value proposition to its customers. A key challenge in managing these organizations would be the sharing of tacit knowledge (knowledge that cannot be shared easily through information systems).

In the last decade, focus has increasingly shifted from the relatively stable threat situation of the cold war to a situation characterized by turbulence where accidents and severe peacetime emergencies are strongly influencing our view of the world. A decision to make the Armed Forces "Network based" has already been made on the political level, and an overarching concept for network based utilization of military power has been developed. The intention is to be able to deploy operational forces tailored according to need, at the right place and at the right time, so as to be able to carry out operations that will achieve the desired effect. The network should be able to provide the means to achieve information superiority and enhance society's total capacity to

handle serious crises or emergencies in a coordinated manner. Close cooperation between actors will create the conditions for fast, coordinated and well-founded decisions.

NEO increases the effectiveness of an organization (military force or enterprise) by improving intelligence collection, analysis and information sharing between its various elements. Consequently, the implementation of NEO principles is key to achieve shared awareness, increased speed of command/decision, higher tempo of operations and increased operational security in the field.

The aim of this workshop is to bring together different communities (military, enterprises, government, industry and academic) researching in areas that may affect Network Centric Operations, such as Social Networks, Networking Technologies, Information and Knowledge Management, Decision Support Systems, , to share their ideas and experiences. The topics of interest include, but are not limited to:

- Tenets of Network Enabled Operations/Capability (NEO/NEC)
- Insights from NEO/NEC case studies
- NEO/NEC implementation strategies;
- Effects Based Operations;
- Network Based Defence.

NEO is recognized as the cornerstone of Armed Forces transformation around the world. It is known as Network Enabled Capabilities (NEC) in NATO and the United Kingdom, Network Centric Warfare (NCW) in the United States and Australia, Network Based Defence (NBD) in Sweden and Network Centric Operations (NCO) elsewhere

Submission details:

Abstract details: All submission types require an abstract in the first instance. The Abstract should be a minimum of 300 and no more than 500 words including up to five keywords and keyphrases to be received by **15 December 2008**

Submission: Use the [online submission form](#). Please ensure that you complete all relevant sections of the form, including the conference track the abstract is intended for, the proposed title for the paper, the full names (first name and surname, not initials), postal addresses and email addresses of **all** authors and a telephone number for at least one contact author. Please indicate clearly if the contact author is not the lead author.

Full paper: Only required when the abstract has been selected and not to be more than 5,000 words including abstract, keywords and references (the Harvard referencing rules need to be followed). Submission date will be no later than **2 February 2009**. Papers should be submitted as .doc or .rtf file attachments by email to Elaine.Hayne.

Important information

- The selection panel of the conference committee will consider all paper abstracts received by the submission deadline to ensure that the proposed paper is relevant to the Conference.
- The authors of abstracts that describe a relevant paper will receive a notification of abstract selection.
- All submissions for demonstrations will be reviewed by the conference organisers to ensure that the proposed demonstration is likely to be of interest to the conference participants.
- All full papers will be double-blind reviewed by members of the conference committee to ensure an adequate standard, that the proposed subject of their abstract has been followed, that the paper is of a suitable length, the standard of English is adequate and the paper is appropriately referenced.
- For authors whose first language is not English we request that you have your work proof read prior to submission by a native English speaker (or at least a fluent English speaker). Papers can be rejected due to a poor standard of English.

- Papers that are accepted will be published in the conference proceedings providing at least one author registers and presents the work at the Conference (see the registration section of the conference website for more information about registration).
- Due to the large number of papers expected for this conference, the committee only allows an author to present one paper. Therefore if multiple papers are accepted for presentation different co-authors need to present each paper.

Publication Opportunity

Papers accepted for the conference will be published in the conference proceedings, subject to [author registration](#). The proceedings for this conference are listed in the Thomson Reuters ISI Index to Scientific and Technical Proceedings (ISTP/ISI Proceedings), the Thomson Reuters ISI Index to Social Sciences & Humanities Proceedings (ISSHP) and the Thomson Reuters ISI Index to Social Sciences & Humanities Proceedings (ISSHP/ISI Proceedings).

Selected papers from the Conference will be considered for publication in a special issue of the *Journal of Information Warfare*: <http://www.jinfowar.com>. Additionally, selected papers from the conference will be considered for publication in the *International Journal of Electronic Security and Digital Forensics* published by Inderscience UK (ISSN:1751-1911X).

Important Dates

Abstract submission deadline:	15 December 2008
Notification of abstract acceptance:	22 December 2008
Full paper due for review:	2 February 2009
Notification of paper acceptance (with any requested changes):	13 April 2009
Earlybird registration closes	27 April 2009
Final paper due: (with changes)	11 May 2009
Final author registration date	1 June 2009

Conference Executive

Debi Ashenden, Cranfield University, UK
Dr Andrew Blyth, University of Glamorgan, Wales, UK
Professor Steven Furnell, University of Plymouth, UK
Professor Aki Huhtinen, Finnish Defence Forces, Finland
Dr Andy Jones, British Telecom, UK and Edith Cowan University, Australia
Dr Sérgio Tenreiro de Magalhães, Universidade Católica Portuguesa, Portugal
Tim Parsons, BAE Systems, UK
Dr Jari Rantapelkonen, Finnish Defence Forces, Finland
Dr Henrique Santos, University of Minho, Portugal
Dr Jill Slay, University of South Australia
Dr Iain Sutherland, University of Glamorgan, UK

Committee Members

The conference programme committee consists of key people in the information systems, information warfare and information security communities around the world. The following people have confirmed their participation:

Abiola Abimbola (Napier University, UK); Gail-joon Ahn (University of North Carolina, Charlotte, USA); Leigh Armistead (Edith Cowan University Australia); Colin Armstrong (Curtin University, Australia); Debi Ashenden (Cranfield University, Shrivenham, UK); Richard Baskerville (Georgia State University, USA); Maumita Bhattacharya (Charles Sturt University, Australia); John Biggam (Glasgow Caledonian University, UK); Andrew Blyth (University of Glamorgan, UK); Martin Botha (South African Police, South Africa); Svet Braynov (University of Illinois, Springfield, USA); Bill Buchanan (Napier University, UK); Catharina Candolin (SET Security, OY, Finland); Jerome Carrere (Telindus, Luxembourg); Rodney Clare (EDS and Open University, UK); Maura Conway (Dublin City University, Ireland); Michael Corcoran (DSTL, UK); Geoffrey Darnton (Bournemouth University, UK); Dorothy Denning (Naval Postgraduate School, USA); Paul Dowland (University of Plymouth, UK); Marios Efthymiopoulos (Special Envoy of the Hellenic Foreign Ministry to Nato, Italy); Ramzi El-Haddadeh (Brunel University, UK); John Fawcett (University of Cambridge, UK); Eric Filiol (Ecole Superior Informatique, France); Chris Flaherty (University of New South Wales, Australia); Steve Furnell (University of Plymouth, UK); Javier Garci'a Villalba (Universidad Complutense de Madrid, Spain); Kevin Gleason (KMG Consulting, Massachusetts, USA); Stefanos Gritzalis (University of the Aegean, Greece); Barry Horne (QinetiQ TIM, UK); Ulrike Hugl (University of Innsbruck Austria); Aki Huhtinen (National Defence College, Finland); Bill Hutchinson (Edith Cowan University, Australia); Hamid Jahankhani (University of East London, UK); Helge Janicke (De Montfort University, Leicester, UK); Andy Jones (BT UK); James Joshi (University of Pittsburgh, USA); Nor Badrul Anuar Jumaat (University of Malaya, Malaysia); Maria Karyda (University of the Aegean Greece); Auli Keskinen (National Defence College, Finland); Jyri Kivinaa (Co-operative Cyber Defence and Centre of Excellence in Tallinn, Estonia); Spyros Kokolakis (University of the Aegean, Greece); Prashant Krishnamurthy (University of Pittsburgh USA); Dan

Kuehl (National Defense University, Washington DC, USA); Peter Kunz (Diamler Chysler Germany); Pertti Kuokkanen (University of Helsinki Finland); Takakazu Kurokawa (National Defence Academy, Japan); Tuija Kuusisto (Finnish Defence Force, Finland); Rauno Kuusisto (Finnish Defence Force, Finland); Michael Lavine (John Hopkins University's Information Security Institute, USA); Martti Lehto (FIAF, Finland); Tara Leweling (Naval Postgraduate School, Pacific Grove, USA); Paul Lewis (Technology Strategy Board, UK); Sharman Lichtenstein (Deakin University, Australia); David Llamas (University of St Andrews, UK); Keith Martin (Royal Holloway, University of London, UK); Bill Martin (RMIT, Australia); Eduardo Medina (Universidad de Castilla-La Mancha, Spain); Don Milne (Buckinghamshire Chilterns University, UK); Yonathan Mizrahi (University of Haifa, Israel); Evangelos Moustakas (Middlesex University, London, UK); Kara Nance (University of Alaska Fairbanks, USA); Dan Ophir (Academic College of Judea and Samaria, Israel); Rain Ottis (Co-operative Cyber Defence and Centre of Excellence in Tallinn, Estonia); Juhani Paavilainen (University of Tampere, Finland); Maria Papadaki (University of Plymouth, UK); Tim Parsons (BAE Systems, Bristol, UK); Maria Papadaki (University of Plymouth, UK); Tim Parsons (DETICA, UK); Andrea Perego (Università degli Studi dell'Insubria, Italy); Michael Pilgermann (University of Glamorgan UK); Fred Piper (Royal Holloway, University of London, UK); Jari Rantapelkonen (National defense University, Finland); Andrea Rigoni (Symantic UK); Raphael Rues (DigiComp Academy Switzerland); Henrique Santos (University of Minho, Portugal); Jill Slay (University of South Australia, Australia); Anna Squicciarini (University of Milano, Italy); Iain Sutherland (University of Glamorgan, Wales, UK); Jonas Svava Iversen (Danish Broadcast Corporation, Denmark); Phil Taylor (University of Leeds, UK); Sérgio Tenreiro de Magalhães (Universidade Católica Portuguesa, Portugal); Theodore Tryfonas (University of Glamorgan, UK); Craig Valli (Edith Cowan University, Australia); Rudi Vansnick (Internet Society, Belgium); Richard Vaughan (General Dynamics UK); Stilianos Vidalis (Newport Business School, UK); Teemupekka Virtanen (Helsinki University of Technology, Finland); Marja Vuorinen (University of Helsinki, Finland); Michael Walker (Vodafone, UK); Mat Warren (Deakin University, Australia); Kenneth Webb (Edith Cowan University, Australia); Peter Wild (Royal Holloway, University of London, UK); Trish Williams (Edith Cowan University, Australia); Patricia Williams (Edith Cowan University, Australia); Tom Wilsdon (University of South Australia); Simos Xenitellis (Royal Holloway University, London, UK); Omar Zaafrany (Ben-Gurion University of the Negev, Israel).

Further information on this conference is available at

<http://www.academic-conferences.org/eciw/eciw2009/eciw09-home.htm>

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