



Universidade do Minho

ECIW 2009

8th European Conference on i-Warfare and Security

Military Academy, Lisbon, Portugal

6-7 July 2009

Conference Co-Chairs: Henrique Santos, Universidade do Minho, Braga, Portugal

Col. Fernando Freire, Military Academy, Lisbon, Portugal

Programme Chair: Dr Sérgio Tenreiro de Magalhães, Universidade Católica Portuguesa, Portugal

Keynote speaker: Dr Paulo Veríssimo, LASIGE, University of Lisboa, Portugal

Call for Papers, Posters, Round Table Proposals, Practitioner Contributions, and Product Demonstrations

The Eighth European Conference on Information Warfare and Security (ECIW 2009) is an opportunity for academics, practitioners and consultants from Europe and elsewhere who are involved in the study, management, development and implementation of systems and concepts to combat information warfare or to improve information systems security to come together and exchange ideas. There are several strong strands of research and interest that are developing in the area including the understanding of threats and risks to information systems, the development of a strong security culture, as well as incident detection and post incident investigation. This conference is continuing to establish itself as a key event for individuals working in the field from around the world. The advisory group for the conference invites submissions of papers on both the theory and practice of all aspects of Information Warfare and Security. The conference in July 2009 is seeking qualitative, experience based and quantitative papers as well as case studies and reports of work in progress from academics, Information systems practitioners, consultants and government departments. Topics may include, but are not limited to:

e-Health systems as part of a national critical infrastructure; Security implications of "virtualised machines and services"; UCE; Hacking; Human Factors; Firewalls; Biometrics; Cryptography; Security policy; Cyberterrorism; Digital forensics; Physical security; Reflector attacks; Principles of War; Strategic leadership; Influence campaigns; Psychological warfare; Infra-structure warfare; National security policy; Information operations; Perception management; Information warfare policy; Compromise path analysis; Information warfare theory; Data and service integration; Information warfare techniques; Corporate defence mechanisms; Electro-magnetic pulse weapons; e-Intelligence/counter-intelligence; Security for small to medium enterprises; Information warfare and security education; Information, computer and network security; Legal issues concerned with information warfare and e-Crime; Ethical, political and social issues relating to information warfare; Cyber-fraud, Phishing and spam; SIMAD what can/should be done to protect against this threat? The Resilience and Susceptibility of "Service Oriented Architectures" (SOAs); Data Integration; IT auditing and compliance; Networked Centric War; Virtual Intrusion Detection; Natural computing; Particle swarm data mining; Artificial immune recognition system security infrastructure; Art of war; Military Culture Topography; Risk Management; Postmodernism; Modern conflict; Military approaches; Counter-terrorism security policies, procedures and legislation; Computers-as-weapons; Non-traditional enemies; SMEs; Malware; Traffic classification; Subliminal Channel; Random numbers approximation sequence; Context free grammars; Information Security Architecture; Information security governance and management; ISO 27001; Small-to-

medium Size Enterprises Security model; Defence steganography; Network anomaly detection models; SecureMDA; Collaborative decision making; Acute situational awareness; Unidirectional linguistic steganography; Biometrics; Gaussian empirical rule; Security of the virtual worlds; Network Address Translator; Machine Learning Risk; SQL Infections; RFID Virus; Current Anti Virus Technologies; Mobile Virus; Critical national infrastructure protection; Public Key Infrastructure; Association of Religions with Warfare; Mathematical-filtering; Image-processing; Data Loss; Wireless Treats; Aircraft Environment; Threat Agents. In addition to the main themes of the conference there are three mini tracks on **Messy Wars or What?**, **Network Enabled Operations** and **Cyber Defence**.

See <http://academic-conferences.org/eciw/eciw2009/eciw09-minitrack.htm> for further information.

Paper Submissions

Papers should address the conference topics listed above and can describe a wide range of research including empirical or theoretical studies. In addition, philosophical papers presenting an argument and papers presenting a process that has been developed and is now ready for wider use are welcome. In all cases concepts and underlying principles should be emphasized, with enough background information to orient any reader who is not a specialist in the particular subject area original. The work should not have been published elsewhere and should not be intended to be published elsewhere during the review period.

Research in Progress

Researchers may submit current projects whilst they are still in progress. To be eligible, it is necessary for a paper to be produced to a publishable academic standard and papers will be subject to the same criteria and processes as research papers. However the final results of the research may not have been fully completed and interpreted.

Case Study Submissions

Case study submissions should be written to publishable standards. Case studies will be subject to the same criteria and the processes as research papers.

Poster Submissions

Posters provide an opportunity for researchers to present their work in an informal setting in which there is more time for discussion and questions than is sometimes available in a full paper session. This track is an ideal forum for the presentation of work in progress. Poster submissions are welcomed in any of the areas identified in the call for papers.

Poster submission requirements

- An abstract describing the work being presented on the poster should be submitted in accordance with the [submission details](#) above. Be sure to select Poster as the submission type.
- Poster abstracts will be blind reviewed by a member of the programme committee. Reviewers will be asked to consider the appropriateness of the work for poster presentation.
- On acceptance instructions on poster dimensions etc will be supplied.
- Poster abstracts and images of the final poster will be published in the CD version of the Conference Proceedings.
- At least one person must register for the conference to present the poster.

Posters will be displayed close to the refreshment area so that all who attend will have an opportunity to see them. There will be a timetabled period when Poster Owners should staff their poster so that participants can come and discuss the research.

Round Table Proposals

The Programme Committee invites topical subjects to be proposed for discussion.

Submission requirements

- An abstract proposing a topic and stating why it is felt this would be an interesting contribution to the conference should be submitted in accordance with the [submission details](#) above. Be sure to select Round Table Proposal as the submission type.
- Proposals will be considered by the programme committee.
- If a proposal is selected the convenor will be asked to nominate knowledge informants in the field who will be prepared to participate. Round Table Discussions can be either 30 minutes or 1 hour in duration. The convenor must register for the conference.
- Other participants can attend the Round Table without conference registration, but if they wish to attend any other part of the conference registration will be required.

Practitioner Contributions

The conference committee welcomes contributions from individuals and organisations working in the field. These contributions can take the form of a presentation or a demonstration.

Submission requirements

- An abstract describing the work to be presented should be submitted in accordance with the [submission details](#) above. Be sure to select Practitioner Contribution as the submission type.
- Practitioner abstracts will be reviewed by the programme committee. Reviewers will be asked to consider the appropriateness of the work for presentation at the conference.
- Authors of selected presentations will have their abstract included in the booklet of abstracts given to participants at the conference.
- At least one person must register for the conference to give the presentation.

Product Demonstrations:

Submit a proposal of 200-300 words describing an e-Learning product you wish to demonstrate and the audience it serves. Proposals should be sent as email attachments to Sue Nugus (sue@academic-conferences.org) not later than **2 February 2009**. Demonstrations themselves are expected to be approximately 15 minutes in length.

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 (Finnish Defence Forces, Helsinki, 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); Berg P Hyacinthe (Assas School of Law, Universite Paris, France); 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 Chrysler 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 (Booze & Company, Italy); Raphael Rues (DigiComp Academy Switzerland); Henrique Santos (University of Minho, Portugal); Damien Sauveron (University of Limoges, France); Richard Sethmann (University of Applied Sciences, Bremen, Germany); 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); Omar Zakaria (University of Malaya, Malaysia).

Further information on this conference is available at

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

Enquiries should be addressed to Elaine.hayne@academic-conferences.org