



ECIW 2008



University of Plymouth

7th European Conference

on

Information Warfare and Security

University of Plymouth, UK

30 June -01 July 2008

Conference Chair:

Steven Furnell, University of Plymouth, UK

Programme Chair:

Debi Ashenden, Cranfield University, UK

Keynote Speaker:

Jeremy Ward, Symantic UK

Can Europe ever make a difference to global cybersecurity?

MINI TRACK CALL FOR PAPERS

Mini track on Data Surveillance

Track chair: Dr Henrique Santos, University of Minho, Guimarães, Portugal



In this information era where data is generated, stored and consumed at an impressive rate there is a challenge to keep websites and networks safe as well as useful. People have always shared information and secrets, and have performed transactions, using communication channels for good and bad purposes. However, nowadays they do it faster, with much more multimedia information, targeting wider geographical areas and using sophisticated ubiquitous resources. As has always been the case, to keep a certain confidence level, surveillance is required, but nowadays this needs to operate across a highly complex and dynamic information matrix. Besides playing a basic safeguard function, surveillance can also be useful to find new and less obvious relationships between data, for example, the ability to trace new disturbances all over the world, before they start to produce serious damage. Defined this way, Data Surveillance (DS) has a potential impact on a wide range of important real-world applications, including (but not limited to) security, information services, finance, public health, environmental science, business and economics.

One big issue concerning Data Surveillance (DS) is where it begins to imply loss of privacy or confidentiality. These values have different meanings for different communities that, despite differences, share a common technological infrastructure and are therefore exposed to each other. The multi-nature of data sources (information collected nowadays includes multivariate records, images, audio, spatial and spatio-temporal data, text documents, and even relational data) also imposes new challenges well beyond current data mining and text mining techniques. The sheer volume of data to analyse demands automatic approaches including machine learning techniques. But, again, the peculiarities of DS violate the typical requirements of machine learning. So, new approaches, architectures and algorithms are required for adequate defence mechanisms.

The aim of this mini track is to bring together different communities researching in areas that may affect DS, such as social and behavioural science, information security, information warfare, information society, data mining and machine learning, to share their ideas and experiences. The topics of interest include, but are not limited to:

- Methodologies, architectures and computational tools for data surveillance systems
- Privacy issues and implications in data surveillance
- Ontology based frameworks for specific data surveillance applications
- Event detection in complex data such as video, audio and spatio-temporal data
- Event detection based on multiple data sources
- Data mining techniques and expert knowledge for data surveillance
- Application of learning algorithms for data surveillance
- Application of data surveillance in safety-critical environments
- Algorithms and tools for online data surveillance
- Reducing false alarm rates and analysis of error tradeoffs within data surveillance applications
- Validation and testing of data surveillance systems, including metrics for performance evaluation
- Novel application domains

Submission details

Abstract details: The Abstract should be a minimum of 300 and no more than 500 words including keywords to be received by **10 December 2007 (extended until 7 January 2008)**. Please read the [Abstract Guidelines](#) section of the website before submitting.

Submission: Online via the submission form at <http://academic-conferences.org/eciw/eciw2008/eciw08-abstract-submission.htm>. 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) and email addresses of all authors and a postal address and telephone number for at least one contact author. Please indicate clearly if the contact author is not the lead author.

Full paper: Only required after acceptance of abstract and not to be more than 5,000 words including abstract, keywords and references. Submission date will be no later than **28 February 2008**. Papers should be submitted as .doc or .rtf file attachments by email to the Conference Manager, Elaine Hayne, at elaine.hayne@academic-conferences.org

Important information

The selection panel of the conference committee will consider all abstracts received by the submission deadline to ensure that the proposed paper is relevant to the Conference. The authors of abstracts, which describe a relevant paper, will receive a notification of abstract acceptance. 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. 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. Author registration must be completed by **26 May 2008**.

Important dates

<i>Abstract submission deadline:</i>	10 December 2007 (extended until 7 January 2008)		
<i>Notification of abstract acceptance:</i>	17 December 2007		
<i>Full paper due for review:</i>	28 January 2008	<i>Notification of paper acceptance:</i>	7 April 2008
<i>Final paper due (with any changes):</i>	5 May 2008	<i>Author registration closes:</i>	26 May 2008

For operational reasons we have had to alter the submission dates for this conference. However, as we are aware that a considerable amount of literature was in circulation before we did this we will honour all submissions that arrive by the original dates (21 January for Abstracts and 10 March for papers). We would ask that you strive to meet the new dates as these have been arranged to allow a longer paper review period which we hope will give authors more time to arrange travel and registration after receiving reviewer feedback.

Conference Executive

[Debi Ashenden](#), Cranfield University, UK

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Further information on this conference is available at

<http://www.academic-conferences.org/eciw/eciw2008/eciw08-home.htm>

This mini track call for papers can be seen at

<http://academic-conferences.org/eciw/eciw2008/eciw08-minitrack.htm>

Please direct enquiries to Elaine.hayne@academic-conferences.org