

1.1 Professor Philip Treleaven

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Keywords <i>select as appropriate</i>		Security		Fraud Control		Privacy	
		o		x		o	
<i>(Add keywords from list)</i>		Fraud detection			Intrusion detection		
Electronic commerce							
Research Overview:							
Contact: Professor Philip Treleaven				Tel: 020 7380 7288			
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Research Project overviews:							
<p>Researcher(s): Peter Bentley, Philip Treleaven, Bernard Buxton email: P.Bentley@cs.ucl.ac.uk details: Our work involves Professors Philip Treleaven and Bernard Buxton as well as RAs and PhD students. We are currently concentrating on the use of evolutionary techniques to enable learning and adaptive behaviour for fraud detection. We have a project in collaboration with Lloyds/TSB and Searchspace Ltd in which we evolve fuzzy logic rules to classify the difference between fraudulent and normal home insurance claims. We are also investigating the use of artificial immune systems to detect intrusions in computer networks (hacking or unauthorised access).</p>							
Source HEI							

1.1 Stephen Hailes

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Keywords <i>select as appropriate</i>		Security	x	Fraud Control		o	Privacy		o
<i>(Add keywords from list)</i>		Trust							
Research Overview:									
To examine novel trust models that reflect sociological factors more accurately than can simple binary models.									
Contact: Stephen Hailes				Tel: 020 7679 3432					
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Research Project overviews:									
<p>Researcher(s): Farez Abdulrahman email: f.abdulrahman@cs.ucl.ac.uk details: In this work, we abandon the notion that there are two simple levels of trust -- i.e. complete trust and complete distrust. Although this model predominates in security systems at present, it cannot capture the nuances of trust that humans use socially and in business. Our work is predicated on the notion that, since computer programs are agents of humans, it makes sense to allow for more sophisticated human notions of trust to be manipulable by program entities. Thus, for example, the normal process of credit risk management takes into account a wide range of factors before concluding whether a given individual is trustworthy enough or not. This is an example of a richer notion of trust, and is one that could not be captured easily in current all-or-nothing systems. Our approach allows for the expression and communication of fine grained concepts of trust and takes account of partial information and the use of recommendations from partially trusted sources.</p>									
Source HEI									

1.1 Professor Peter Kirstein

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Email: kirstein@cs.ucl.ac.uk							
Keywords <i>select as appropriate</i>	Security	X	Fraud Control	o	Privacy	x	
<i>(Add keywords from list)</i>	secure multimedia			conferencing			
Research Overview:							
We have a series of projects concerned with secured applications, usability of security and securing the network infrastructure.							
Contact: Prof Peter Kirstein				Tel: 020 7 380 7286			
Email: kirstein@cs.ucl.ac.uk							
Research Project overviews:							
<p>Researcher(s): Angela Sasse email: a.sasse@cs.ucl.ac.uk details: We have a number of research students on various aspects of privacy and authentication. These include user perception of privacy in multimedia communications, user perception of quality and charging in modern networks, and improving usability of authentication mechanisms, start Oct. 97</p>							
<p>Researcher(s): Jon Crowcroft email: j.crowcroft@cs.ucl.ac.uk details: I am doing much work on signed code in the context of active services. Also much of our work on pricing also involves security, including aspects of the Watermarking work we are doing.</p>							
<p>Researcher(s): Peter Kirstein email: kirstein@cs.ucl.ac.uk details: One aspect of my work is the provision of secured multimedia conferencing - with the security either at the application level or the network level (via IPSEC). The relationship between the security mechanisms and a Public Key Infrastructure is central to the work. Another aspect is that of key management; here the different mechanisms of mail, depositories and on-line announcements are being studied. Finally, there are related activities in the provision of virtual private networks, the use of active service nodes (in which security is vital), and mobile networks.</p>							
Source HEI							

