Die Fakultät für Informatik der Universität Wien lädt Sie herzlich ein zum

CS-Colloquium

Systems Thinking

Christopher Wills
Director CARIS Research Ltd

Wann?   28. Juni 2017, 15:00 Uhr

Wo?   Hörsaal 3
Währinger Straße 29
1090 Wien

Abstract

There are many problems associated with how to understand the concept of security in relation to a computer-based information and communication system. Typically, there may be cultural problems, such as that of language, or of understanding different views relating to differing definitions and understandings of security. Often, there are problems of a technical nature that need to be resolved, such as those associated with understanding the nature and functionality of cryptology. We need to decide if we are addressing information security or data security and whether we have understood and addressed the three main facets of security; confidentiality, integrity and availability. What IT security evaluation criteria can do to enhance our understanding and what other metrics and measurements of security there might be.

This presentation will present an approach called the **Systemic-Holistic Approach**. The approach can be used to gain a basic understanding of problem domains such as that of security, by enabling the analysis and structuring issues relating to IT security. The approach is based on General Systems Theories, Cybernetics, General Living Systems Theory, Socio-Technical Design perspectives and Soft System Methodology.

The aim of this presentation is to present the theoretical background to the Systemic-Holistic Approach; its model and framework. The objectives are to give a **systemic-holistic view of the IT security** area which makes it possible for a student - and we all need to be life long learners, to grasp and deal with details as well as overviews in a subjective way, but based on objective knowledge.

Bio

Christopher Wills is a Director of CARIS Research Ltd, prior to which he worked as the Director of an Information Systems research centre at Kingston University,

London. Chris has managed and undertaken IS and computing research and consultancy projects on behalf of a range of organisations, including the UK's Defence Evaluation Research Agency, the UK's MOD Tri- Services, the UK Police Service, the Health Service, the UK's Department for Transport, the UITP and The Mass Transit Railway Corporation of Hong Kong.

Chris, is an analyst designer with more than 30 years experience in the formulation of user requirements and in the design of socio- technical systems.

His specialist areas of interest are those of **software process in safety critical systems** and **threat and risk assessment in ITC systems** and it is in these areas of computing systems that he has undertaken work for the Royal Navy, scoping the design of naval command and control systems. Chris worked for the security services, both in the preparation for and during, the London Olympics. Chris is a Freeman of the City of London and a Liveryman of the City of London's Company of Information Technologists.