

## **Solange Ghernaouti – Hélié**

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**Professor Solange Ghernaouti – Hélié** completed her Ph.D in Computer Science & Telecommunication at Paris VI University. To date, she is full professor at the University of Lausanne. - Faculty of Business and Economics. In 1987, she was the first woman professor of this faculty. At present, she is president of the Social Commission and president of the Equal Opportunities Commission of the University of Lausanne. Previously, she worked as network architect, European and International standardisation expert, marketing product manager for IT international companies in France.

Pr. S. Ghernaouti-Hélié developed teaching activities related to telecommunication and security management. She developed a deep knowledge in socio-economic, managerial, legal, and technological dimensions of information infrastructure security and computer related crime. She has designed an interdisciplinary ICT security educational program which takes into consideration the necessity to understand cybersecurity issues from individual, private or public institutions points of view, to develop effective countermeasures by policy makers, regulators, ICT engineers, executive's managers and end users, in order to protect assets of citizens, organisations and states. She is co-founder of the Master in Law, Crime and ICT Security of the University of Lausanne that she has directed (2001-2003). She has created a new master course "Internet and society" for the Department of Sociology - University of Geneva. The extensive use of information and communication technologies are analysed within the framework of a safe and inclusive information society taking into account cyber risks.

Her research activities focus on mastering informational and technological risks by an interdisciplinary and global approach of cybersecurity and cybercrime. She is a key researcher of the SECOQC European integrated project (Secure Communication based on Quantum Cryptography).

She is the author of 17 books and over 130 papers on telecommunication network strategies and technologies and on ICT security issues. Recently, she was the author of a chapter dedicated to "Cybercrime and national security" for the Canadian encyclopaedia of national security and she has prepared the "Cybersecurity guide for developing countries" presented at the World Telecommunication Development Conference in Doha (2006). She is the author of the publication "Information Security for Economic and social development" - United Nations - Economics and Social Commission for Asia & the Pacific – ESCAP - UNITED NATIONS 2008 (<http://www.unescap.org/icstd/policy/>).

She is an international expert for ICT security strategies & policies and computer related crime issues for several governmental agencies and private organizations. She is member of numerous advisories boards of foreign research institutions and often acts as evaluators of research projects and institutions at national and international levels. She is member of High Level Expert Group (HLEG) for the Global Cybersecurity Agenda (ITU – SG) and co-leader

of international working groups on “capacity building” and “organizational structures” for cybersecurity.