



BRIEF CV OF PETER STAVROULAKIS

Education

Peter Stavroulakis received his BS and Ph.D. degrees from New York University in 1969 and 1973 respectively and his MS degree from California Institute of Technology in 1970.

Experience:

He joined in 1973 the World famous Research Center, Bell Laboratories (has produced 6 Nobel Laureates), and worked until 1979, when he joined Oakland University in Rochester Michigan as an associate Professor of Engineering.

He worked at Oakland University until 1981 when he joined ATT International and subsequently NYNEX International until 1990. From 1990 to present he has been at Technical University of Crete.

He joined the Technical University of Crete (TUC) Greece as a full Professor of Electrical Engineering in May 1990. His work at Bell Labs and Oakland University resulted in the publication of an IEEE reprint book on Interference Analysis of Communication Systems and the publication of a number of papers in the general area of telecom systems. He is also the Author/Editor of twelve other books in the general area of Telecommunication Systems. He has presented many tutorials in international conferences on security applications in telecommunications. While at ATT and NYNEX he worked as a Technical Director whose responsibility was to lead a team dealing with techno-economic studies on various large national and international telephone systems and data networks. When he joined TUC, he led the team for the development of the Technology Park of Chania and has had various administrative duties besides his teaching and research responsibilities. Prof. Stavroulakis is the founder of the Telecommunication Systems Institute of Crete, a research center for the training of Ph.D. students in telecommunications, associated with and in close collaboration with various research centers and universities in Europe and U.S.A. He now has a very large research team, the work of which is funded by various public and private sources including the European Union. He is a member of the Editorial Board of the International Journal of Communications, International Journal of Satellite Systems and Networking and has been a reviewer for many technical international

Journals. His current research interests are focused on the application of various heuristic methods on Telecommunications, including Neural Networks, Fuzzy Systems and Genetic Algorithms and Chaos also in the development of new schemes to increase security in Mobile and Wireless Systems. Recently he has become Member of the Editorial Board of CHINA COMMUNICATIONS and a Leading Turkish Electronics Journal.

His Scientific Activities can be summarized as:

- 1) Author/Editor of 13 Books.
- 2) Supervised a number of Graduate students 6 of them for the Ph.D degree.
- 3) Author of more than 100 Research papers. His work influenced and changed international Standards in Satellite Communications.
- 4) Organized more than 10 International Conferences
- 5) Participated in more than 30 International conferences and has organized ten International conferences.
- 6) Editor in 6 International Technical Journals
- 7) Presented more than 10 Tutorials worldwide on a number of diverse areas in the general field of telecommunications.
- 8) Founded and became the first President of the Research Center << Telecommunications Systems Research Institute of Crete>>
- 9) Supervised a study for the development of the Technology Park of Chania
- 10) Managed, created, evaluated and supervised large Technology projects worldwide.

Other Activities

- Organized a 12-day workshop on Digital Wireless Communications sponsored by IEEE, held in Crete, Greece (1993)
- Senior member of IEEE since 1999 and member for 37 years
- Member of the technical committee for IEEE Millennium Conference on Quality and Reliability (CQR) and organizer for this conference, on behalf of IEEE (collected registration fees, paid the expenses and returned remaining funds to IEEE)
- Program chairman of the First Biannual Conference on Biological Effects of Electromagnetic Fields, 2000, sponsored by IEEE, held in Crete
- Reviewer for IEEE Transactions on Communications and Vehicular Technology.
- Member of the IEEE Communication and Information Security Technical Committee (CIS-TC) which at its first meeting on November 29 2005 sponsored unanimously the Proposal of Prof. P.

Stavroulakis for the creation of a new IEEE Transaction Journal on Security under his leadership.

- Presented ten tutorials related to his main research expertise at IEEE conferences such as Globecom, ICC, VTC the last 6 years.

- Guest Editor of the International Journal of Satellite Communications on Interference Suppression Techniques, Jan 2003

- Guest Editor of International Journal of Communication Systems (IJCS) on Wireless Local Loops, 2000

- Technical Program Chairman of the 1999 International Workshop on Mobile Communications, focused on UMTS (Universal Mobile Telephone Service) and IMT-2000 (International Mobile Telephony)

- Editorial Board member of the International Journal of Communication Systems (ISCS), (1999-present)

- EDITORIAL board member of International Journal of Satellite Communication and Networking (Jan.2004)

- Editorial Board member of Man, Machine and Cybernetics (1980-1989)

- Editorial Board member of "SECURITY and Communication Networks" International technical Journal

- Reviewer for the International Journal of Communication Systems (IJCS) (1998-present), the International Journal of Satellite Systems (IJSS) (2000-present), Proceedings of IEE (1999-present), Electronic letters (1999-present)

- Co-organized a workshop on Advanced Technology Modules for Aeronautics and Space Technology and Applications, sponsored by the European Union program, COMETT (1993)

- Member of the Signal Processing Committee of Advisory Group for Aerospace Research and Development (AGARD), Sensor and Propagation Panel (SSP), NATO, (1996-present)

- Member of the New York Academy of Science (1994-present)

- Member of the Greek Technical Chamber, which is the Greek equivalent of professional engineering society (1980-present)

- Member of Tau Beta Pi and President of the Student Chapter (1968 – 1969)

- Member of the Editorial Board of China Communications(2005 -)

- Invited to be one of the main speakers at the EU conference on Security on February 20th,2006 which will determine the new research areas funded by EU for next ten years.

The last four years, he has concentrated on the subject of communication and information security.

His Distinct Qualifications related to security of Telecommunications are the following:

- 1) Designed the Security Network for the Winter Olympic Games in 1986 at Albertville France.
- 2) Responsible for the evaluation of the C4I(security network) for the Athens Olympic/2004
- 3) Holder of a unique International pending Patent on the security of wireless Communications based of Chaotic Techniques.
- 4) Author of two Unique books published by ARTECHHOUSE and Taylor and Francis and one being published by SPRINGER on this subject out of his career total of 12 Books.
- 5) Published research papers on all 5 subsystems of C4I out of his career total 100 and more specifically his work on TETRA and applications of satellite communications and troposcattering techniques are unique and for the first time have appeared in the International Technical literature. As a matter of fact he has written a book which was published by SPRINGER in June of 2007 on TETRA titled

<< TETRA- A GLOBAL SECURITY TOOL>>

He has experience in the last and most technically difficult modules in secure Telecom System Design too and that is the area of Integration proven by his published work in which most who have tried recently to deal with C4I failed.

- 6) He has been invited by China to participate in similar activities regarding the Olympic Games of Beijing/2008 and is the only Greek scientist as Member of Editorial Board of the China Communications magazine. He is co-organizing a Conference in Beijing in October 2006 to present how the C4I concept can be used for the Beijing Olympics/2008. He has also been invited by the National (Chinese)governing board of CHINACOM to present an All Day Tutorial in October in Beijing on the subject of Network and Information Security. He will also serve as a Guest Editor for the CHINA COMMUNICATIONS JOURNAL for a special issue on Communications and Information security.
- 7) He is considered one of the few leading scientists who have contributed significantly to this field and he is recognized by IEEE the most prominent International Technical Organization as such. He was also the director of the biggest Telecom Firm worldwide, ATT, in Europe for the period 1983-1990. A very unusual combination of technical/research and senior managerial experience talent and experience!!!. He is member of the prestigious IEEE Technical committee on Communication and

information security and has received the sponsorship of this committee to establish a new IEEE Transaction Journal on Communication and Information security under his **Chief Editorship**.

- 8) He is the reviewer for many leading Journals on the subject of Security and evaluator for many European proposals.
- 9) He holds a Pending International Patent titled<< SECURE TELECOMMUNICATIONS SYSTEMS BASED ON CHAOTIC AND INTERFERENCE REDUCTION TECHNIQUES>>. The only Patent available worldwide that deals with a complete Secure Telecom system design.
- 10) He has just been invited to write a Handbook to be published by SPRINGER titled COMMUNICATION AND INFORMATION SECURITY.