EVANGELOS ZERVAS

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Current Position

Professor in the Department of Electrical and Electronics Engineering at the University of West Attica.

Education

Northeastern University, Boston MA, June 1993
Ph.D. Electrical and Computer Engineering
Thesis title: "Blind Equalization for Shaped Transmitted Signals"
Thesis advisor: J.G. Proakis
Major: Communications and Digital Signal Processing.
Minors: 1) Mathematics 2) Control

Northeastern University, Boston MA, September 1989
M.Sc. Electrical and Computer Engineering
Thesis title: "Systolic Arrays for Least Squares"
Thesis advisor: V. Ingle
Major: Communications and Digital Signal Processing.

National Technical University of Athens (NTUA), Athens Greece, June 1986
Diploma in Electrical Engineering
Thesis title: "Fast Adaptive Algorithms"
Thesis advisor: G. Carayannis
Graduated in the top 5%

Research Interests

- Digital Signal Processing, Detection and Estimation Theory
- Digital Communications and Coding
- Information Theory
- Blind Deconvolution and Equalization
- Fast Adaptive Algorithms
- Stochastic Modelling
- Mobile Communication Networks

Teaching Experience

Graduate Courses
- Instructor for the "**Analysis of Telecommunication Systems**" **graduate** course of the MSc program in Data Communications and networking, Dept. of Electrical and Electronics Engineering, UniWA (Oct. 2019 – to present)
- Instructor for the "**4G and 5G Telecommunication Systems**" **graduate** course of the MSc program in Data Communications and networking, Dept. of Electrical and Electronics Engineering, UniWA (Oct. 2019 – to present)
- Instructor for the "**Computational Mathematics**" **graduate** course of the MSc program in Design and Development of Advanced Electronic Systems at the TEI-Athens, Dept. Of Electronics Engineering (Sep. 2012 – Sep. 2017)
- Instructor for the "**New Generation Telecommunication Systems**" **graduate** course of the MSc program in Embedded and Telecommunication Systems at the TEI-Athens, Dept. Of Electronics Engineering (Sep. 2012 – Sep. 2017)
- Instructor for the "**Computational and Analytic Methods**" **graduate** course of the MSc program in Design and Development of Advanced Electronic Systems at the TEI-Athens, Dept. Of Electronics Engineering (Sep. 2017 – Sep. 2018)
- Instructor for the "**Information Theory and Source Coding**" **graduate** course at the University of Athens, Department of Informatics (Feb. 1994 – Jun. 1997)
- Instructor for the "**Special Topics in Networks**" **graduate** course at the University of Athens, Department of Informatics (Oct. 1996 –Jun. 2001)
- Instructor for the "**Data Communications**", **laboratory** course at the TEI – Athens (MSc Brunel University) (1997- 2009)
- Instructor for the "**Coding for Compression and Data Security**", **laboratory** course at the TEI – Athens (MSc Brunel University) (1997- 2009)
- Instructor for the "**Discrete Systems Lab**" **laboratory** course at the Northeastern University. (Jan. 1989 – Jun. 1989)
- Instructor for graduate and undergraduate **laboratories** for "**VLSI design**" at the Northeastern University. (instructed the use of CAD tools like magic, mpla, spice, crystal, espresso, rnl. etc.) (Sep. 1987 – Dec. 1988)

Undergraduate Courses
- Instructor for the "**Linear Algebra**" **undergraduate** course at the UniWA, Dept. of Electrical and Electronics Engineering (Sep. 2018 – Sep. 2021)
- Instructor for the "**Probability Theory and Statistics**" **undergraduate** course at the UniWA, Dept. of Electrical and Electronics Engineering (Sep. 2018 – Sep. 2021)
- Instructor for the "**Information Theory and Coding**" **undergraduate** course at the UniWA, Dept. of Electrical and Electronics Engineering (Sep. 2018 – present)
- Instructor for the "**Telecommunications**" **undergraduate** course at the UniWA, Dept. of Electrical and Electronics Engineering (Sep. 2021 – present)
- Instructor for the "**Information Theory and Coding**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Sep. 2012 – 2018)
- Instructor for the "**Telecommunications –I (Analog)**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Mar. 1995 – Jun. 1996)
- Instructor for the "**Telecommunications-II (Digital)**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Oct. 1995 – 2018)
- Instructor for the "**Digital Signal Processing**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Oct. 1995 – Jun. 2008)
- Instructor for the "**Mobile Communications**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Mar. 1996 – Feb. 1997)

- Instructor for the "**Microprocessors - I**" **undergraduate** course at the TEI - Athens, Dept. Of Electronics Engineering (Mar. 1997 — Feb. 1999)
- Instructor for the "**Telecommunication - I**" **laboratory** course at the TEI - Athens, Dept. Of Electronics Engineering (Mar. 1995 – Feb. 1999)
- Instructor for the "**Telecommunication - II**" **laboratory** course at the TEI - Athens, Dept. Of Electronics Engineering (Oct. 1995 – Jun. 2008)
- Instructor for the "**Digital Signal Processing**" **laboratory** course at the TEI - Athens, Dept. Of Electronics Engineering (Oct. 1998 – Jun. 2008)
- Instructor for the "**Computer Programming-I**" laboratory course at the TEI – Athens, Dept. Of Electronics Engineering (Oct. 2001-Feb. 2002)
- Instructor for the "**Communication Networks**" laboratory course at the TEI – Athens, Dept. Of Electronics Engineering (Sep. 2013-Sep. 2014)

Research Experience

- Dept. of Electronics Engineering at the TEI of Athens. Conducted research on:

  - "Telecommunications and Cryptography of Physical Layer Using Electric Circuits that exhibit Chaotic Behavior", Archimedes I, funded by the Ministry of Education, EPEAEK-II (February 2004 –August 2006) (**Project Manager**)
  - "Framework creation and software development for the control of integrated services of digital telecommunication public switches for IP users", funded by the General Secretariat of Research and Technology (GSRT) and Siemens A.E. (PAVE-99, EPET-II) (Jan. 1999 – Jun. 2001) (**Project Manager**)
  - "Study of wireless architectures based on IP technology", funded by the General Secretariat of Research and technology (GSRT) (PENED-99, EPET-II) (Jan. 1999 – Jun. 2001) (**Project Manager**)
  - "Platform development for the evaluation of xDSL technologies", funded by the TEI of Athens (Jan. 1999 – Feb. 2002) (**Project Manager**)
  - "Platform development for the assessment of information management techniques in Wireless Sensor Networks", funded by the TEI of Athens (Jan. 1999 – Feb. 2002) (**Project Manager)**
  - "Resource Management techniques for capacity improvement in Mobile Communication Networks with QoS guarantees", Archimedes I, funded by the Ministry of Education, EPEAEK-II (February 2004 –August 2006)
  - "**DISFER**: Distributed Sensor Systems for Emergency Response" co-financed by the European Union (European Social Fund -ESF) and Greek national funds through the Operational Program "Education and Lifelong Learning" of the National Strategic Reference Framework (NSRF)-Research Funding Program: Thalis - Athens University of Economics and Business
  - "**Meleager**: An Integrated platform for Fire Protection", co-funded by the European Union (European Regional Development Fund), Ministry of Education and Religious Affairs Culture and Sports and Greek national funds through the Operational Program "Management and Implementation Agency for RTD and Innovation Activities" of the National Strategic Reference Framework (NSRF)- (Nov. 2010-Nov. 2013)

- ➢ **"E-Press:** Monitoring and Evaluation of Natural Hazard Preparedness at School Environments", ECHO European Commission (1/1/2015-31/12/2014)"Maribrain: Ship' s Health Condition, Operational Status and Performance Remote Monitoring based on wireless sensor network and technical experience management system" funded by the General Secretariat for Research and Technology of Greece. (1/11/2014-31/12/2014)
- ➢ **ROBORDER:** Autonomous swarm of heterogeneous Robots for BORDER surveillance", Grant ID 740953, Horizon 2020, (12/2018-3/2019)

- Dept. of Informatics at the University of Athens (Sept. 1995 – to present). Conducted research on:
  - ➢ **RAINBOW** (RAdio Independent Broadband on Wireless, ACTS project), which aimed in the development of the Universal Mobile Telecommunication System (UMTS)
  - ➢ **WAND** (Wireless ATM Network Demonstrator, ACTS project), which aimed in the development of wireless local area networks for ATM mobile terminals.
  - ➢ **WINE** (Wireless Internet Network, IST Project) which aimed in optimizing IP traffic over wireless networks
  - ➢ **PoLoS** (integrated Platform for Location-based Services, IST project) targeting to the development of middleware platform for LBS creation deployment and provision.
  - ➢ **EURO-CITI** (IST project) which aimed in the development of new transaction services like (tele-voting, tele-consulting etc.) in e-government domain.
  - ➢ **SCIER** (Sensor & Computing Infrastructure for Environmental Risks), IST FP6 (Strep) which aimed at the development of a GIS system based on GRID technologies and Wireless Sensor Network for the early detection of natural hazardous phenomena
  - ➢ "Wireless access to the Greek PSTN network using DECT technology", funded by the Greek PTO (OTE).
  - ➢ "Experimental ADSL Network for Fast Internet and Multimedia Services", funded by the Greek PTO (OTE).
  - ➢ "Metropolitan ATM Network for Teleeducation and Telemedicine", funded by the Greek Ministry of Education and EE.
  - ➢ "ATM – Net" funded by the Greek General Secretary of Research and Technology and EE.

- Dept. of Electrical and Computer Engineering at Northeastern University, Boston MA (Sept. 1989- Jun. 1993). Conducted research on:
  - ➢ "Blind Equalization Algorithms" supported by the Office of U.S. Air-Force Research.
  - ➢ "Blind Equalization Algorithms for Shaped Signals", supported by Codex / Motorola.
  - ➢ "Systolic Arrays for Least Squares", supported by Northeastern University.

- Dept. of Electrical and Computer Engineering at the National Technical University of Athens (NTUA) (Sep. 1986 – Jun. 1987). Conducted research on:
  - ➢ "Stability of Fast Adaptive Algorithms and Applications to Speech Processing", supported by the ESPRIT-64 (SPIN) project.

- Research and Development Projects

  - "Modern educational approaches and introduction of new technologies in the Undergraduate Syllabus of the Department of Electronics" supported by the Ministry of Education (EPEAEK-II) (May 03 – Aug. 2006) (**Project Manager**).
  - "Integrated Design and Testing of Telecommunication Product", supported by the Ministry of Education (EPEAEK-I) (Feb. 98 – Jan. 00) (Educational Manager).
  - "Assessment of Educational chare and the offered Services of Department Electronics, TEI-Athens", EPEAEK-I, (1/5/99-31/3/2000)
  - "Upgrading of the Undergraduate Syllabus of the Department of Electronics" supported by the Ministry of Education (EPEAEK-I)

Technical Experience

- Development of the Video Coding module for the RPV (Remote Piloting Vehicle) project at the Technology Research Center of the Hellenic Air – Force (KETA, Terpsithea Attikis, Oct. 1993 – Mar. 1995).
- Development of a Data Base for the Military Staff Office at the Technology Research Center of the Hellenic Air – Force (Dec. 1994 – Mar. 1995).
- Development of an educational software package for Digital Signal Processing (NTUA, 1986-1987)
- Development of Multimedia Educational Material for the Hellenic Open University (2004)

Awards

- Research Assistantship from Northeastern University (1989-1993)
- Teaching Assistantship from Northeastern University (1987-1989)
- Scholarship award from the State Scholarship Foundation of Greece for excellent academic performance (1984).

Affiliations

- Member of the Technical Chamber of Greece.
- Member of the Technical Program Committee of conferences
  - TEMU 2005, Annual Conf. On Telecommunications & Multimedia, Crete
  - EngEdu05, Int. Conf. on Engineering and Education, Athens, 2005
  - IEEE, 1st International Workshop on Security, Privacy and Trust in Pervasive and Ubiquitous Computing, Santorini, Greece, July 2005.
  - 12th, European Wireless Conference, Athens – Greece, April 2006

H-index, Citations:
h-index 12, 1014 citations (https://scholar.google.gr)

Publications

Books – Book chapters

[1] Solutions Manual for the "**Communication Systems Engineering**" book by J.G. Proakis and M. Salehi. (Macmillan, 1994).

[2] Solutions Manual for the "**Advanced Digital Signal Processing**" book by J.G. Proakis, C. M. Rader, C. L. Nikias and F. Ling (Macmillan, 1993).

[3] «**Communication Systems**» (J. G. Proakis & M. Salehi, 2nd Ed. Prentice Hall, 2001) Translation: C. Caroubalos, E. Zervas, S. Karaboyias, E. Sagriotis , NTUA, 2002.

[4] "Advances in Informatics" edited by D. I. Fotiadis, S.D. Nikolopoulos, **Lamps : Location Agents and Mobile PNNI Scheme** co-authored by E. Zervas, A. Kaloxylos and L. Merakos (Word Scientific, 2000)

[5] S. Paskalis, G. Lampropoulos, D. Skyrianoglou, and E. Zervas, **A Framework for Mobility and QoS Provisioning in IPv6 DECT Networks**, Lecture Notes in Computer Science Vol. 2563, "Advances in Informatics, Post-Proceedings of the 8th Panhellenic Conference in Informatics" (Y. Manolopoulos, S. Evripidou, A. Kakas eds), 2003.

[6] I. Priggouris, E. Zervas, and S. Hadjiefthymiades, "**Location Based Network Resource Management**", chapter accepted in "Handbook of Research on Mobile Multimedia" (editor: Ismail Khalil Ibrahim), Idea Group Inc., 2005.

[7] O. Sekkas, S. Hadjiefthymiades and E. Zervas, "Sensor Data Fusion for Location Awareness", in Encyclopedia of Mobile Computing and Commerce Vol. 2 (Editor David Taniar), IDEA Group Reference, USA, Feb. 2007.

[8] K. Barkoula, E. N. Zois, E. Zervas and G. Economou, 'Event Based Offline Signature Modeling Using Grid Source Probabilistic Coding', A. Petrosino, L. Maddalena, P. Pala (Eds.): LNCS 8158, pp. 77–85, Springer Verlag, 2013

[9] Konstantina Barkoula, Elias Zois, Evangelos Zervas, George Economou, "Offline Signature Verification Based on Probabilistic Representation of Grid Events", Advances in Digital Handwritten Signature Processing: A Human Artifact for e-society, G. Pirlo, D. Impredovo and M. Fairhurst (Eds.) , Word Scientific, Aug. 2014

[10] V.Tsetsos, O.Sekkas, E. Zervas «A forest fire detection system: the Meleager Approach», Chapter in "Intelligent Technologies and Techniques for Pervasive Computing", IGI Global book series Advances in Computational Intelligence and Robotics, 2013.

Transactions – Journals

[1] G. Kechriotis, E. Zervas and E. S. Manolakos, "**Using Recurrent Neural Networks for Adaptive Communication Channel Equalization",** IEEE Trans. on Neural Networks, special issue on Reccurent Neural Networks, 5(2):267--278, March 1994.

[2] L. Merakos and E. Zervas, "**Packet Dropping Analysis for Reservation Voice TDMA Systems",**
IEEE Transactions on Vehicular Technology, June 1999.

[3] A. Kaloxylos, E. Zervas and L. Merakos**, "Location management in Wireless ATM Customer Premises Networks**", Computer Communications Journal, Special Issue of Computer Communications on Recent Advances in Mobile Communication Networks, pp. 533-549, March 2000.

[4] E. Zervas, A. Kaloxylos and L. Merakos, "**An Efficient Location Management Protocol for Wireless ATM Customer Premises Networks**", Mobile Networks and Applications Journal (MONET), ACM Special Issue on Management of Mobility, pp. 123-133, March 2001 (6).

[5] I. Raptis, N. Glezos, E. Valamontes, E. Zervas and P. Argitis, "**Electron Beam Lithography Simulation for High Resolution and High-Density Patterns",** Vacuum Elsevier, 2001.

[6] S. Paskalis, A. Kaloxylos, E. Zervas, L. Merakos, "**An Efficient RSVP – Mobile IP Interworking Sche**me", ACM Journal for Special Topics in Mobile Networks and Applications (MONET), vol. 8, no. 3, June 2003

[7] N. Passas, E. Zervas, G. Hortopan, L. Merakos, "**A Flow Rejection Algorithm for QoS Maintenance in a Variable Bandwidth Wireless IP Environment**", IEEE JSAC Special Issue on all-IP Wireless Networks Vol. 22, No. 4, May 2004.

[8] P. Katsikogiannis, E. Zervas and G. Kaltsas, "**A wireless sensor network for building structural health monitoring and seismic detection**", Physica Status Solid (C) Current Topics in Solid State Physics 5 (12), pp. 3834-3838.

[9] C. Anagnostopoulos,Y. Darladimas, S. Hadjiefthymiades and E. Zervas "**On the use of epidemical information spreading in mobile computing environments**", Mediterranean Journal of Computers and Networks(Special Issue on Recent Advances in Heterogeneous Cognitive Wireless Networks), 2007.

[10] C. Anagnostopoulos,, S. Hadjiefthymiades and E. Zervas , "**Information dissemination between Mobile Nodes for Collaborative Context Awareness**", IEEE Transactions on Mobile Computing, Vol. 10, No 12, pp 1710-1726, 2011.

[11] C. Anagnostopoulos, S. Hadjiefthymiades and E. Zervas, "**An Analytical Model for Multi-epidemic Information Dissemination** ", Journal of Parallel and Distributed Computing (Elsevier), Vol 71, Issue 1, Jan. 2011, pp 87-104

[12] E. Zervas, A. Mpimpoudis, C. Anagnostopoulos, O. Sekkas and S. Hadjiefthymiades, "**Multisensor Data Fusion for Fire Detection and Monitoring",** Information Fusion Journal, Elsevier, Special Issue of Information Fusion in Future Generation Communication Environments (2009).

[13] Fotis Foukalas, Evangelos Zervas, "**On Cross Layer Design of AMC based on Rate Compatible Punctured Turbo Codes**", Int. Journal of Communications, Networks and System Sciences, Vol. 3 No. 3, pp. 256-265, March 2010.

[14] D. Triantafyllopoulou, N. Passas, E. Zervas and L. Merakos **"Analysis and optimization of a cross-layer adaptation mechanism for real-time applications in wireless networks"** Wireless Networks: Journal of Mobile Communication, Computation and Information, Volume 17, Issue 5 (2011), Page 1339-1354

[15] D. Sklavounos, E. Zervas, O. Tsakiridis and J. Stonham, "A Subspace Identification Method for Detecting Abnormal Behaviour in HVAC Systems", Journal of Energy, Vol. 2015, Art. ID, 693749, 2015

[16] O. Tsakiridis, D. Sklavounos, E. Zervas and J. Stonham "A Comfort-Aware Energy Efficient HVAC System Based on the Subspace Identification Method," Journal of Energy, vol. 2016, Article ID 5074846, 2016.

[17] T. Kontos, C. Anagnostopoulos, S. Hadjiefthymiades, and E. Zervas, "Adaptive Epidemic Dissemination as a finite-horizon Optimal Stopping Problem", Wireless Networks (2018), https://doi.org/10.1007/s11276-018-1660-0

[18] M Koutsioumpos, E Zervas, E Hadjiefthymiades, L Merakos, ¨**Monitoring for Rare Events in a Wireless Powered Communication mmWave Sensor Network**», Sensors 20 (12), 3341

Internet Drafts

[1] S. Sarantis, A. Kaloxylos, E. Zervas, "**RSVP Mobility Proxy**", IETF, Internet Draft, Dec. 2001

Conference Papers

[1] D. Manolakis, G. Carayannis and E. Zervas, "**Fast RLS Algorithms for Adaptive Filtering: Some Engineering Problems**," International Symposium on Circuits and Systems, Philadelphia, May 1987.

[2] E. Zervas, J. G. Proakis and V. Eyuboglu, "**Effects of Shaping on Blind Equalization**", Proc. SPIE, San Diego, June 1991.

[3] E. Zervas, J. G. Proakis and V. Eyuboglu, **A "Quantized" Channel Approach to Blind Equalization**," In IEEE ICC proceedings, Chicago, June 1992.

[4] E. Zervas and J. G. Proakis, "**A Sequential Algorithm to Blind Equalization**," in Proc. of the IEEE MILCOM proceedings, San Diego, October 1992.

[5] G. Kechriotis, E. Zervas, and E. S. Manolakos, "**Using Recurrent Neural Networks for Blind Equalization of Linear and Nonlinear Communication Channels**," In Proc. of the IEEE Conference on Military Communications, pages 784-788, San - Diego, California, October 1992.

[6] I. Modeas, G. Nikolaidis and E. Zervas, "**Handover scenarios in UMTS**" , presented at the International Workshop on Mobile Communications, September 1996, Thessaloniki, Greece.

[7] V. Sakkas, E. Zervas and L. Merakos, "**The Effect of Macrodiversity on the Quality Control and Radio Resource Management in DS-CDMA**" , presented at the International Workshop on Mobile Communications, September 1996, Thessaloniki, Greece.

[8] J. De Vriendt, M. Maraki, B. Perrin, Y. Kriaras, E. Zervas and L. Merakos, "**The Impact of Handover/Macrodiversity on the UMTS Mobility Server of the Rainbow Demonstrator**" , presented at the ACTS Mobile Communications Summit, Granada, Spain, November 1996.

[9] G. Nikolaidis, I. Modeas, E. Zervas and L. Merakos, "**Implication of Hard Handover Switching Algorithms on the Control Functionality of the UMTS Mobility Server**", presented at the 2nd European Personal Mobile Communication Conference (EPMCC'97), Bonn.

[10] N. Passas, T. Korakis, E. Zervas and L. Merakos, "**Improving Traffic Scheduling in Wireless ATM Networks**," 3rd IEEE Symposium on Computers and Communications (ISCC) '98 Athens, Greece.

[11] G. M. Exley, L. Merakos, E. Zervas and E. Gazis, "**On the Construction of Transmission Schedules Immune to Topology Changes in Multi-Hop Packet Radio**," International Conference on Telecommunications (ICT), June '98, Halkidiki, Greece.

[12] A. Alonistioti, E. Zervas, G. Efthimiopoulos and I. Modeas, "**Integration of IN/UMTS SDL-based "open" object oriented platforms and CORBA aspects for the support of Software Radio features**", International Conference on Telecommunications (ICT), June '98, Halkidiki, Greece.

[13] E. Zervas, A. Alonistioti and N. Passas, "**A G-Transform based Systolic Array for Least Squares Problems**", IX European Signal Processing Conference (EUSIPCO), Sept. 98, Rhodes Island, Greece.

[14] A. Kaloxylos, E. Zervas and L. Merakos, **"LAMPS: Location Agents and Mobile – PNNI Scheme"**, 7th Hellenic Conference on Informatics, Ioannina – Greece, August 1999.

[15] D. Ziotopoulou, D. Skyrianoglu, K. Orfanakos, E. Zervas, "**A DECT – IP interworking for QoS support**", 8th Panhellenic Conference on Informatics, Nicosia/Cyprus, Nov. 2001.

[16] S. Paskalis, A. Kaloxylos, E. Zervas, "**An eff icient QoS scheme for mobile hosts**", in Proceedings of IEEE LCN, Tampa, Florida, November 2001.

[17] E.Zervas, N.Passas and R.Heaton, "**A Sequential Blind Channel Estimation Technique for OFDM Systems**", in Proc. WSEAS Intl. Conf. on Communications, Rethymnon, Greece, July 2002.

[18] E.Zervas, S.Liaskas, N.Passas and R.Heaton, "**Pilot Assisted Clipping Avoidance for OFDM**", in Proc. WSEAS Intl. Conf. on Communications, Rethymnon, Greece, July 2002.

[19] S. Paskalis, A. Kaloxylos, E. Zervas, and L. Merakos **Evaluating the RSVP Mobility Proxy Concept**, in Proceedings of IEEE PIMRC, Lisbon, Portugal, September 2002.

[20] D.Skyrianoglou, N.Passas, A.Salkintzis, and E.Zervas, "**A Generic Adaptation Layer for Differentiated Services and Improved Performance in Wireless Networks**", in Proc. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Lisbon, Portugal, September 2002.

[21] N. Passas, E. Zervas and L. Merakos, **"Adaptable Resource Management in Wireless IP Links"**, in Proc. IEEE Vehicular Technology Conference (VTC) 2003, Orlando, Florida, October 2003.

[22] N. Passas, E. Zervas, G. Hortopan, and L. Merakos, **"Providing for QoS Maintenance in Wireless IP Environments"**, in Proc. IEEE GLOBECOM 2003, San Francisco, California, December 2003.

[23] O. Tsakiridis, D.Syvridis, E. Zervas, and J. Stonham, "**Chaotic Operation of a Colpitts Oscillator in the Presence of Parastic Capacitances**", in Proc Int. Conference on Electronics, Hardware, Wireless & Optical Communications EHAC'2004), (Salzburg, Austria), pp. 416-421, Feb. 2004.

[24] O. Tsakiridis, E. Zervas, M. Koutsioumpos and J. Stonham, "**Design of a Chaotic Balanced Colpitts Oscillator**", in Proc Int. Conference on Applications of Electrical Engineering (AEE'04), (Cancun, Mexico), pp. 402-404, May. 2004.

[25] O. Tsakiridis, E. Zervas, D.Syvridis, M. Tsilis and J. Stonham, "**Design of Differential Chaotic Colpitts Oscillator**", accepted for presentation in the International Conference on Electronics, Circuits and Systems. (ICECS 2004), (Tel-Aviv, Israel), Dec. 2004

[26]. O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "**Design of a Quadrature Chaotic Colpitts Oscillator**", *accepted Int. Conf. On Circuits, Signals, and Systems (CSS'04)*, Florida, U.S.A, 2004.

[27] O. Tsakiridis, E. Zervas, M. Koutsioumpos and J. Stonham, "**Design of a Gain Control Chaotic Colpitts Oscillator**", accepted *in Int. Conf. on Non-Linear Analysis, Non-Linear Systems, and Chaos (NOLASC)*, Athens, Greece, 2004.

[28]. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "**Design of a Voltage Control Chaotic Colpitts Oscillator**", *in Int. Conf. on Electronics, Hardware, Wireless & Optical Communications (EHAC '05),* Salzburg, Austria, Feb. 2005.

[29] O. Tsakiridis, E. Zervas, M. Koutsioumpos and J. Stonham, "**Design of a Current Control Synchronized Chaotic Colpitts Oscillator System**", in *Int. Conf on Applications of Electrical Enginnering (AEE '05)*, Prague, Chech Republic, March 2005, pp. 271-278.

[30] O. Tsakiridis, E. Zervas, and J. Stonham, "**Voltage Control Chaotic Colpitts Oscillator**", *in Int. Conf. on Ph.D. Research in Microelectronics and Electronics (Prime '05)*, Lausanne, Switzerland, June 2005, pp. 363-365.

[31] O. Tsakiridis, E. Zervas, M. Koutsioumpos and J. Stonham, "**Voltage Control Synchronized Chaotic Colpitts Oscillator System**", *in Int. Conf. on Systems (ICS '05)*, Athens, Greece, July 2005.

[32] E. Lytra, M. Koutsioumpos, O. Tsakiridis and E. Zervas, "**Introducing Chaotic Circuits in an Electronics Engineering Curriculum**", WSEAS Engineering Education 2005, Athens, July 2005.

[33] E. Zervas and A. Nassiopoulos, "**Teaching Mathematics: Lessons Learned in an Electronics Engineering Department**", WSEAS Engineering Education 2005, Athens, July 2005.

[34] O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "**A High Frequency Hybrid Chaotic Oscillator**", *in Int. Conf. on Systems Applied informatics and Communications (AIC '05),* Malta, September 2005, p.p. 425-427.

[35] O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "**Design of a Chaotic Modulation Scheme Based on an Electronic Controlled Colpitts Oscillator**", *in Int. Conf. on Circuits, Signals, and Systems (CSS '05),* California, U.S.A, October 2005.

[36] O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "**Two Dimensional Chaotic Modulator**" *in Int. Conf. on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC '05),* Sofia, Bulgaria, October 2005.

[37] O. Sekkas, S. Hadjiefthymiades, E. Zervas, "**Fusing Sensor Information for Location Estimation**", 10th East-European Conference on Advances in Databases and Information Systems (ADBIS 2006), Thessaloniki, Greece, 3-7 Sep. 2006.

[38] O. Sekkas, S. Hadjiefthymiades, E. Zervas, "**Enhancing Location Estimation Through Data Fusion**", IEEE PIMRC, Helsinki, Finland, 11-14 Sep. 2006.

[39] A. Kaloxylos, D. Vali, S. Paskalis, G. Panagiotou, G. Gonianakis, E. Zervas, "**Mobility Support for a QoS Aggregation Protocol**", 5th International Symposium on Communication Systems, Networks and Digital Signal Processing, Patra, Greece, 19-21 July 2006, Greece.

[40] Zervas E., Sekkas O., Hadjiefthymiades S., Anagnostopoulos C., "**Fire Detection in the Urban Rural Interface through Fusion techniques**", in Proceedings of the *1st International Workshop on Mobile Ad hoc and Sensor Systems for Global and Homeland Security (MASS-GHS 2007)*, Pisa, Italy, October 2007.

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