

CURRICULUM VITAE

PERSONAL INFORMATION

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Nationality Hellenic
Date of Birth 07/11/1971

Dr. Tsakiridis Odysseus

EDUCATION

2007-2010 *Postdoctoral Research at the Aristotle University of Thessaloniki, Medical School, B' Surgical Clinic for Children, Papageorgiou Hospital.*

2002-2007 *Doctor of Brunel University in Investigation of Chaotic Electronic Circuits and their Applications in Communications (scholar of the State Scholarship Foundation)*

1997-2000 *M.Sc in Data Communications, Brunel University, U.K. (Thesis Title: The STA/LTA Algorithm as a Tool for Recognition of Seismic Signals from Artificial Noise).*

1998-1999 *Diploma in Knowledge Based Systems, Open University, U.K. (Neural Networks, Artificial Intelligence, Fuzzy Logic, and Knowledge Based Systems).*

1989-1995 *Electronics Engineer, Technological Educational Institute of Athens (Thesis Title: Design and Construction of a Vacuum Tube Audio Amplifier).*

1993 *Certificate of Technician of Wired Systems, Army School of Telecommunications.*

1989 *1st Lyceum of Athens (with high distinction)*

CONFERENCES

- 2004 [1] O. Tsakiridis, D. Syvridis, E. Zervas, and J. Stonham, "Chaotic Operation of a Colpitts Oscillator in the Presence of Parasitic Capacitances", in *Int. Conf. on Electronics, Hardware, Wireless & Optical Communications (EHAC '04)*, Salzburg, Austria, Feb. 2004.
- [2] O. Tsakiridis, E. Zervas, M. Koutsoumpos and J. Stonham, "Design of a Chaotic Balanced Colpitts Oscillator", in *Int. Conf. on Applications of Electrical Engineering (AEE '04)*, Cancun, Mexico, May 2004.
- [3]. O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, "Design of a Quadrature Chaotic Colpitts Oscillator", in *Int. Conf. on Circuits, Signals, and Systems (CSS '04)*, Florida, U.S.A, Nov. 2004.

- [4] O. Tsakiridis, E. Zervas, M. Koutsoumpos and J. Stonham, "**Design of a Gain Control Chaotic Colpitts Oscillator**", in *Int. Conf. on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC '04)*, Athens, Greece, Dec. 2004.
- [5] O. Tsakiridis, E. Zervas, D.Syvridis, M. Tsilis and J. Stonham, "**Design of a Differential Chaotic Colpitts Oscillator**", in *Int. Conf. on Electronics, Circuits and Systems (ICECS '04)*, Tel-Aviv, Israel, Dec. 2004, pp. 298-301.
- 2005 [6] 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.
- [7] O. Tsakiridis, E. Zervas, M. Koutsoumpos and J. Stonham, "**Design of a Current Control Synchronized Chaotic Colpitts Oscillator System**", in *Int. Conf. on Applications of Electrical Engineering (AEE '05)*, Prague, Czech Republic, March 2005, pp. 271-278.
- [8] 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.
- [9] E. Lytra, M. Koutsoumpos, O. Tsakiridis and E. Zervas, "**Introducing Chaotic Circuits in an Electronics Engineering Curriculum**", WSEAS Engineering Education 2005, Athens, Greece, July 2005.
- [10] O. Tsakiridis, E. Zervas, M. Koutsoumpos and J. Stonham, "**Voltage Control Synchronized Chaotic Colpitts Oscillator System**", in *Int. Conf. on Systems (ICS '05)*, Athens, Greece, July 2005.
- [11] 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.
- [12] 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.
- [13] 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.
- 2008 [14] O. Τσακιριδης, Α. Πετρόπουλος, Α. Μεντεσιδου, Ε. Κόντης και Π. Μυρίλλας, "**Διαγνωστική Ηλεκτρονική διάταξη για την καλύτερη χειρουργική αντιμετώπιση παθήσεων του όρχεως: Μετρητής σκληρότητας όρχεως**", in *4th Int. Conf. Greek Biotechnology Forum*, Athens, Greece, February 2008.
- [15] D. Sklavounos, O. Tsakiridis, E. Zervas, "**Synchronization of the Limited Bandwidth Diode System**" in *The 10th Experimental Chaos Conference*, Catania, Italy, June 2008.
- [16] O. Tsakiridis, D. Sklavounos, and J. Stonham, "**Low Voltage Chaotic Oscillator**", in *Int. Conf. on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC '08)*, Corfu, Greece, October 2008, p.p. 171-175.
- 2009 [17] O. Tsakiridis, E. Zervas, V. Stefanidis. "**EPAD Chaotic Oscillator**" accepted in the 2nd Chaotic Modeling and Simulation International Conference, Crete.
- 2010 [18] O. Tsakiridis, V. Stefanidis, E. Zervas and J. Stonham. "**Single Ended Chaotic Colpitts Oscillator with Active Load**" in *The 11th Experimental Chaos & Complexity Conference*, Lille, France, June 2010.
- [19] V. Stefanidis, O. Tsakiridis, E. Zervas, and J. Stonham, "**Design of a Microwave Chaotic Oscillator Using Active Symmetric Drive**", in *Int. Conf. on Circuits (ICC '10)*, Corfu, Greece, July 2010, p.p. 80-83.
- 2012 [20] D. Sklavounos, E. Zervas, O. Tsakiridis and J. Stonham, "**A Fault Detection System for Monitoring the Consumption Energy in a HVAC System**", in *Int. Conf. On Development, Energy, Environment, Economics (DEEE'12)*, Paris, France, December 2012, p.p. 470-475.
- 2013 [21] D. Sklavounos, E. Zervas, O. Tsakiridis and J. Stonham, "**A Wireless Sensor Network**

- Approach for the control of a multizone HVAC system", in IEEE Int. Conf. On Power, Energy & Control (ICPEC'13), Dindigul, India, February 2013.**
- [22] Anastasios Moschos, Odysseus Tsakiridis, Petros Blouchos, Spiridon Kintzios, Grigoris Kaltsas, **"A portable system for acquisition and processing of bio-electrical signals, utilizing BERA technology – Application in the detection of 2,4,6-trichloroanisole in wine"** *BIOMEPE 2013*, 21-22 Jun 2013, Athens, Greece
- [23] D. Sklavounos, E. Zervas, O. Tsakiridis and J. Stonham, **"Energy Control Algorithms for HVAC systems"**, in *IEEE Int. Conf. On Energy (ENERGYC'14)*, Dubrovnik, Croatia, May 2014.
- 2014 [24] I. Christakis, G. Hloupis, O. Tsakiridis, I. Stavrakas. **"Low cost sensor implementation and evaluation for measuring NO2 and O3 pollutants"**. International Conference on Modern Circuits and Systems Technologies" (MOCAST) on Electronics and Communications, Bremen, Germany, 2020.
- 2020 [25] I. Zyrichidou, P. Syropoulou, S. Tekes, G. Grivas, I. Stavroulas, E. Athanasopoulou, E. Gerasopoulos, I. Christakis, T. Migos, I. Stavrakas, G. Hloupis, O. Tsakiridis, K. Ioannidis, N. Papadakis **"City-Wide Air Quality Measurement System Based on IoT Network"**, 12th International Conference on Air Quality – Science and Application, Thessaloniki, Greece, 2020.
- [26]) P. Photopoulos, O. Tsakiridis, I. Stavrakas, and D. Triantis. **"Weighted Scoring of Multiple-choice Questions based Exams: Expert and Empirical Weighting Factors."** 2020 In *Proceedings of the 12th International Conference on Computer Supported Education - Volume 1: CSEDU*, ISBN 978-989-758-417-6, pages 382-387.
- [27] I. Christakis, G. Hloupis, O. Tsakiridis, P. Syropoulou, N. Papadakis, Ilias Stavrakas, **"Performance comparison of low-cost gas and particles sensors"** Proceedings of the Eighth International Conference on Environmental Management, Engineering, Planning & Economics, pp 332-341, Thessaloniki Greece 2021.
- 2021
- JOURNALS**
- 2004 [1] O. Tsakiridis, D. Syvridis, E. Zervas, and J. Stonham, **"Chaotic Operation of a Colpitts Oscillator in the Presence of Parasitic Capacitances"**, *WSEAS Trans. on Electronics*, vol. 1, pp. 416-421, Apr. 2004.
- [2] O. Tsakiridis, E. Zervas, M. Koutsiumpos and J. Stonham, **"Design of a Chaotic Balanced Colpitts Oscillator"**, *WSEAS Trans. on Circuits and Systems*, vol. 3, pp. 839-841, June 2004.
- [3]. O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, **"Design of a Voltage Control Chaotic Colpitts Oscillator"**, *WSEAS Trans. on Electronics*, vol. 1, pp. 633-638, Oct. 2004.
- [4] O. Tsakiridis, E. Zervas, M. Koutsiumpos and J. Stonham, **"Design of a Gain Control Chaotic Colpitts Oscillator"**, *WSEAS Trans. on Systems*, vol. 3, pp. 2985-2990, Dec. 2004.
- 2005 [5] O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, **"Two Inputs Electronic Controlled Chaotic Pattern Modulator"**, *WSEAS Trans. on Circuits and Systems*, vol 4, pp. 1464-1468, Nov 2005.
- 2006 [6]. O. Tsakiridis, E. Zervas, E. Lytra and J. Stonham, **"High Frequency Digital Chaos Generator"**, *WSEAS Trans. on Communications*, vol. 5, pp. 130-132, Jan. 2006.
- 2011 [7]. P. Myrilas and O. Tsakiridis, **"Initial Development of an Electronic Testis Rigidity Tester"**, *The Scientific World JOURNAL: TSW Urology 11*, pp.673-686, March 2011.
- 2015 [8]. Dimitrios Sklavounos, Evangelos Zervas, Odysseas Tsakiridis and John T. Stonham **"A Subspace Identification Method for Detecting Abnormal Behavior in HVAC Systems"**, *Journal of Energy Hindawi*, March 2015.
- 2016 [9]. Odysseas Tsakiridis, Dimitrios Sklavounos, Evangelos Zervas, and John T. Stonham **"A Comfort-Aware Energy Efficient HVAC System Based on the Subspace Identification Method"**, *Journal of Energy Hindawi*, February 2016.
- 2021 [10] Georgia Paivana, Dimitris Barmpakos, Sophie Mavrikou, Alexandros Kallergis, Odysseus Tsakiridis, Grigoris Kaltsas and Spyridon Kintzios **"Evaluation of Cancer Cell Lines by Four-Point Probe Technique, by Impedance Measurements in Various Frequencies"**, *Journal of Biosensors*, September 2021

PROFESSIONAL EXPERIENCE

- 1989-1990 **AMARAD ELECTRONICS.** Supervisor of Design and Production of Power Supply Systems.
- 1990-1991 **ALCO TAPE.** Responsible for Technical Support of Systems of Industrial Package.
- 1991-1993 **CAB ELECTRONICS.** Responsible for Design and Technical Support of Alarm Systems.
- 1994-1995 **ALTO.** Responsible for Technical Support of Υπολογιστικών Συστημάτων και Δικτύων.
- 1995-2001 **LYRIC A.E.** Technical Supervisor in Support of Audio-visual Systems for Professional and Household Applications.
- 1991-2009 **TSAKIRIDIS DEVICES.** Tsakiridis Devices is engaged in the design, construction and sales of sound systems. The main products of the business are amplifiers of high fidelity sound manufactured with vacuum tubes as well as with bipolar components. During the last 15 year the products have been demonstrated in annual HI-END exhibitions in Greece (Athens and Thessaloniki), Germany, United Kingdom, Italy, Turkey and Cyprus and is highly recommended by specialized domestic and international magazines-reviewers such as HI-FI News and Record Review, Hi Tech, Sound, AV Extreme. As of 2002 Tsakiridis Devices has exporting their products within EU.

TUTOR EXPERIENCE

- 1997 - 1998 **Tutor** in Public Institute for Professional Expertise in Aegaleo during winter semester 1997-1998 / Courses for Electronics.
- 1997 – 1998 **Tutor** in the Private Institute for Professional Expertise "OMEGA" during winter semester 1997-1998 / Courses for Electronics and Informatics.
- 1998 – 2000 **Lecturer and Laboratory Trainer** for the program of Complementary Education under the subject "Ολοκληρωμένος Design and Control of the Telecommunication Product" carried out in the Department of Electronics in the Technological Educational Institute of Athens.
- 2004 - 2006 **Lecturer and Laboratory Trainer** for the program of Reformation of Undergraduate Programs of the Technological Educational Institute of Athens under the subject "Lab View" carried out in the Department of Electronics in the Technological Educational Institute of Athens.
- 1997 – 2002
2004 - 2008 **Laboratory Associate** in the Department of Electronics in the Technological Educational Institute of Athens. Digital Signal Processing Laboratory, Antenna Laboratory, Analog Electronics Laboratory, Electronic Design & Constructions Laboratory, Digital Systems Laboratory.
- 2007 - 2008 **Scientific Fellow** in the Technological Educational Institute of Athens. Electronics Department, Tuition of Electronics I & Electronics II.
- 2009 – 2015 **Lecturer** in the Technological Educational Institute of Athens. **Electronics Department, Tuition** of Electronics I & Electronics II and labs of Electronics I, Electronics II, Optoelectronics, Electronic Design & Construction and Electronics Physics.

2012 – 2015	<p>Lecturer in the Technological Educational Institute of Athens. Biomedical Department, Tuition of Introduction to Electronics, Amplifier Design and Digital Electronics and labs of Introductions to Electronics, Digital Electronics and Amplifier Design.</p>
2016-2018	<p>Lecturer in the Technological Educational Institute of Athens. Electronics Department, Postgraduate Program (M.Sc.) of Design and Development of Advanced Electronic Systems. Tuition of Intelligent Systems for Renewable Energy Sources and Modern Instrumentation Technology & Metrology.</p> <p>Assistant Professor in the Technological Educational Institute of Athens. Electronics Department, Tuition of Electronic Design & Construction Lab.</p> <p>Assistant Professor in the Technological Educational Institute of Athens. Biomedical Department, Tuition of Analog Electronics II and Digital Electronics and labs Electronics II and Digital Electronic</p> <p>Assistant Professor in the Technological Educational Institute of Athens. Electronics Department, Postgraduate Program (M.Sc.) of Design and Development of Advanced Electronic Systems. Tuition of Intelligent Systems for Renewable Energy Sources and Modern Instrumentation Technology & Metrology and Electromagnetic Compatibility.</p>
2019-Today	<p>Assistant Professor in the University of West Attica. Department of Electrical & Electronics Engineering, Tuition of Analog Electronics II and Digital Electronics.</p> <p>Assistant Professor in the University of West Attica. Department of Electrical & Electronics Engineering, Postgraduate Program (M.sc) by Research in Electrical & Electronics Engineering, Tuition of Special Topics in Measurements</p> <p>Assistant Professor in the University of West Attica. Department of Electrical & Electronics Engineering, Postgraduate Program (M.Sc.) in Audio, Video & Broadcasting Engineering, Tuition of Audio Electronics.</p>

RESEARCH EXPERIENCE

1998	<p>University of Athens, Department of Informatics and Telecommunications. Research with subject RAINBOW Program (Radio Independent Broadband on Wireless) and Development of 3rd Generation Mobile Systems, subsidized by the European Community.</p>
1999	<p>University of Athens, Department of Informatics and Telecommunications. Research with subject the Compatibility and Development of Net Protocols & Creation of Laboratory Infrastructure for Tests (TEST BED), subsidized by OTE</p>
1999 - 2001	<p>Technological Educational Institute of Athens, Department of Electronics. Research with subject the Development of Platform for evaluation of xDSL Technologies, subsidized by the Technological Educational Institute of Athens.</p>
2000 – 2001	<p>University of Athens, Department of Informatics and Telecommunications. Research with subject the WINE (Wireless Internet Networks) Program. Subsidized by the European Union.</p>
2002	<p>University of Athens, Department of Informatics and Telecommunications. Πανεπιστήμιο Αθηνών, Τμήμα Πληροφορικής και Τηλεπικοινωνιών. Research with subject the program OCCULT (Optical Chaos Communication using Laser-Diodes Transmitters). Subsidized by the European Union.</p>
2004	<p>Athens University of Economics and Business, Department of Informatics and</p>

- Telecommunications.** Research with subject Modeling(WP3) and Engineering (WP4), within the frame of the European project “Market-Managed Peer to Peer Services (MMAPPS)”, subsidized by the European Community, IST-2001-34201.
- 2004-2005 **Technological Educational Institute of Athens, Electronics Department.** Research with subject Telecommunications and Cryptography of Physical Layer with the use of Electronic Circuits exhibiting chaotic behavior, subsidized by the Technological Educational Institute of Athens, Archimedes, Support of Research Teams in the Technological Educational Institutes, ΕΠΕΑΕΚ-II”.
- 2007-2009 **Aristotle University of Athens, Medical School, B’ Surgical Clinic for Children, Papageorgiou Hospital.** The Research concerns the Design/Construction of 3-Dimensional Indicator-Measurer for Testis Rigidity and Automatic Categorization with Artificial Intelligence Techniques.
- 2011-2012 **iTAX S.A., Systems for Verifying Transactions.** Research, design and construction of a system for wireless transmission of tax data through cash register and via Short Message Service (S.M.S.)
- 2018-Today **University of West Attica. Department of Electrical & Electronics Engineering.** The Research concerns with the Design of an Integrated Atmospheric Pollution Monitoring Platform using IoT Network.

WRITINGS

Notes for the Laboratory of Electronics III, Technological Educational Institute of Athens, Department of Medical Instruments Technology.

Notes for the Laboratory of Digital Signal Processing, Technological Educational Institute of Athens, Department of Electronics.

Notes for Matlab Software, Programme of Supplementary Education with subject: Integrated Design and Control of a Telecommunication Product carried out in Technological Educational Institute of Athens, Department of Electronics.

Notes for Software Signal Processing Toolbox, Program of Supplementary Education with subject: “Integrated Design and Control of Telecommunication Product” carried out in Technological Educational Institute of Athens, Department of Electronics.

Notes for Real Time Workshop Software, Program of Supplementary Education with subject: “Integrated Design and Control of Telecommunication Product” carried out in Technological Educational Institute of Athens, Department of Electronics.

Notes for Software Labview, Program of Supplementary Education with subject: “Integrated Design and Control of Telecommunication Product carried out in Technological Educational Institute of Athens, Department of Electronics.

Book «Digital Electronics. Theory & Exercises», Fanourakis K., Tsakiridis O., Patsis G., Eudoxus Code : 41963043.

JOURNAL REVIEWER

IEE, Electronics Letters.

WSEAS, Transactions on Electronics.

WSEAS, Transactions on Circuits and Systems.

PARTICIPATION TO COMMITTEES

2010

Committee for the Curriculum Design of the Department of Electronics, Technological Educational Institute of Athens

2009- TODAY

Committee for the Assessment of the Temporary Staff of the Department of Electronics, Technological Educational Institute of Athens

2011-2012

Assistance to the Committee for the Assessment of the Internal Assessment of the Department of Electronics, Technological Educational Institute of Athens

2012-2013

Committee for the process of monitoring and acceptance of the project "Support and Advice to the Directorate for Quality and Efficiency of the Ministry of Health and Social Security and to the seven (7) Health Regions of the Region for the development of quality procedures to the Health Services as well as the certification of eight (8) selected hospitals of the region according to ISO 9001:2008 concerning the core procedures of handling patients", Technological Educational Institute of Athens

SOCIETY MEMBERSHIP

1996 – today

AES Audio Engineering Society

1996 –1998

IEEE Computer Society

1997 – today

IEEE Signal Processing Society

1998 - 2008

EMC York Club (Electromagnetic Compatibility Club / University of York)

SCIENTIFIC FIELDS OF INTEREST

Chaotic Systems in Electrical Domain, Digital Signal Processing, Sound Systems.

DISTINCTIONS

2002: PhD Scholarship from State Scholarship Foundation

INTERESTS

Music, Theater, Poetry, Photography