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Application Professor
Department of Industrial Design and Production Engineering
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EDUCATION AND TRAINING

Ph.D.: Doctor of Philosophy in Systems and Mathematical Modelling, City University of London, School of Engineering, Department of Electrical, Electronic and Information Engineering, September 2002.

Dissertation: "Evolution of Systems, Modelling and Control Concepts in Ancient Greece."

Sponsored by the Institution of Greek State Scholarships (IKY) 1999/2001.

M.Sc.: Master of Science in Information Engineering with distinction, City University of London, School of Engineering, Department of Electrical, Electronic and Information Engineering, September 1998.

Thesis: "Review of Mathematical Modelling Methodologies for System Operational and Production Issues."

Sponsored by the Institution of Greek State Scholarships (IKY) 1997/1998.

Bachelor as Automation Engineer: Piraeus University of Applied Sciences, Faculty of Engineering, Department of Automation Engineering, June 1994.

Pedagogical Training: School of Pedagogical & Technological Education, 1-Year Program of Pedagogical Training 2009/2010.

LANGUAGES

English: Fluently – Postgraduates Studies in University of UK.

German: Good (Mittelstufe, 1997).

TEACHING EXPERIENCE – UNDERGRADUATE COURSES

12/18 – σήμερα

Assistant Professor, Subject "Automatic Control: Simulation, Applications and Historical Development", University of West Attica, Department of Industrial Design and Production Engineering, Modules: a) Automatic Control Systems I & II (Theory & Lab), b) Historical Evolution of Automation and New Technologies.

- 03/14 – 11/18 **Application Professor**, Subject: “Automatic Control Systems – Simulation and Applications”, Piraeus University of Applied Sciences, Department of Automation Engineering, Modules: a) Automatic Control Systems I & II (Theory & Lab), b) History of Technology and Automata.
- 10/06 – 02/14 **Teaching Assistant**, Technological Education Institute of Piraeus, Department of Automation Engineering, Modules: a) Automatic Control Systems I (Lab), b) History of Technology and Automata.
- 10/03 – 07/04 **Teaching Assistant**, Technological Education Institute of Chalkida, Department of Automation Engineering, Modules: a) Signals and Systems (Theory), b) Human and Science.
- 09/94 – 07/95 | **Teaching Assistant**, Technological Education Institute of Piraeus, Department of Automation Engineering, Automatic Control Systems I (Lab).
 10/95 – 07/96
 10/96 – 07/97
 10/98 – 07/99
 10/02 – 07/03
 10/03 – 07/04
 10/04 – 07/05
 10/05 – 07/06

TEACHING EXPERIENCE – POSTGRADUATE COURSES

- 10/15 – 02/20 **Introduction to Automation Technology**, Fall Semester, MSc Program “New Technologies for Shipping and Transport”, Department of Industrial Design and Production Engineering, University of West Attica and Department of Shipping, Trade and Transportation, University of the Aegean.
- 10/14 – 02/20 **Analysis of Technologically Advanced Applications**, Fall Semester, MSc Program “Automation in Production and Services”, Department of Industrial Design and Production Engineering, University of West Attica.
- 10/14 – 10/16 **MATLAB/SIMULINK Guide, Introduction to Systems Analysis**, Fall Semester, MSc Program “Automation in Production and Services”, Department of Automation Engineering, Piraeus University of Applied Sciences.

SCIENTIFIC EXPERIENCE

BOOKS & CHAPTERS IN BOOKS

- D. Kalligeropoulos, S. Vasileiadou, **Automatic Control Systems I**, Synchroni Ekdotiki, Athens 2005.
- D. Kalligeropoulos, S. Vasileiadou, **Automatic Control Systems II**, Synchroni Ekdotiki, Athens 2005.

- D. Kalligeropoulos, S. Vasileiadou, **Analog Systems Simulation**, Synchroni Ekdotiki, Athens 2005
- D. Kalligeropoulos, S. Vasileiadou, **History of Technology and Automata**, Synchroni Ekdotiki, Athens 2005.
- S. A. Paipetis, **Science and Technology in Homeric Epics**, Series History of Mechanism and Machine Science, Vol. 6, Springer Science+Business Media, B.V., 2008, **Part 2.3**: D. Kalligeropoulos & S. Vasileiadou, The Homeric automata and Their Implementation, pp.77-84 & **Part 13.2**: D. Kalligeropoulos & S. Vasileiadou, Interpreting the Representations on the Shield of Achilles, pp. 443-450, ISBN: 978-1-4020-8783-7.

PUBLICATIONS - JOURNALS

- C. Tsironis, S. Vasileiadou, I. K. Giannopoulos, *Physics-based modelling of the ECRH system for MHD control applications*, Fusion Engineering and Design, vol. 123, 2017, pp. 504-507.
- M. Pilakouta, A. Savidou, and S. Vasileiadou, *A laboratory activity for teaching natural radioactivity*, European Journal of Physics, Volume 38, 2016, pp. 1-9.
- C. Tsironis, I. K. Giannopoulos, I. D. Kakogiannos, S. Vasileiadou, D. Kalligeropoulos, *Modeling and control simulation of an electromechanical mm-wave launching system for thermonuclear fusion applications*, Fusion Engineering and Design, vol. 112, 2016, pp. 367-379.
- D. Tseles, C. Alafodimos, S. Vasileiadou, G. Nikolaou, *Data mining in ECG data*, Journal of Applied Research Review, Technology & Sciences, Vol XV, 2015, <http://journal.teipir.gr/index.php/science/article/view/datam>.
- S. Vasileiadou, D. Kalligeropoulos, N. Karcantias, *Mythical Automata*, Measurement & Control, Vol. 36, 2003, pp. 76-80.
- S. Vasileiadou, D. Kalligeropoulos, N. Karcantias, *The Achilles' Shield*, Measurement & Control, Vol. 36, 2003, pp. 81-86.
- S. Vasileiadou, D. Kalligeropoulos, N. Karcantias, *From Measurements to Geometry and Numbers – Early forms of Mathematical Modelling*, Measurement & Control, Vol. 36, 2003, pp. 87-90.

PUBLICATIONS - PROCEEDINGS

- C. Tsironis, I. K. Giannopoulos, S. Vasileiadou, A. K. Ram, *Analysis and testing of theoretical models used for control simulations of the electron-cyclotron resonance geometry in tokamak experiment*, International Scientific Conference eRA-12, Piraeus University of Applied Sciences, 2017, final stage of publication.
- C. Tsironis, S. Vasileiadou, I. K. Giannopoulos, *Physics-based modelling of the ECRH system for MHD control applications*, 29th Symposium on Fusion Technology, Prague, 2016, Poster P1.30 (Topic B).

- M. Pilakouta, A. Savidou, S. Vasileiadou, *Teaching natural radioactivity using samples of granites*, International Scientific Conferences eRA-11, Piraeus University of Applied Sciences, 2016, pp. 30-37, ISSN-1791-1133.
- D. Kalligeropoulos, S. Vasileiadou, *Philon von Byzanz und seine Druckwerke über pneumatisch-hydraulische Regelsysteme / Φίλων ο Βυζάντιος και τα Έργα του για Πνευματικά και Υδραυλικά Συστήματα Ελέγχου*, Proceedings 19. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2015, pp. 22-31, ISBN 978-3-901439-11-7.
- C. Tsironis, S. Vasileiadou, D. Kalligeropoulos, *Optimization and control of the electron-cyclotron resonance layer position and width in magnetic fusion devices*, International Scientific Conference eRA-9, Piraeus University of Applied Sciences, 2014, pp. 17-24, ISSN-1791-1133.
- D. Kalligeropoulos, S. Vasileiadou, A. Gkamaris, *Der antike Mechanismus von Eleutherna, Untersuchung, Erläuterung und 3D-Simulation/ Ο Αρχαίος Μηχανισμός της Ελεύθερνας – Έρευνα, Ερμηνεία και Τρισδιάστατη Εξομοίωση*, Proceedings 17. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2011, pp. 62-73, ISBN 978-3901439-09-4.
- S. Vasileiadou, N. Karcantias *Modeling and Control Issues in Systems Integration of Production Operations and Design of Continuous Processes*, 17. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2011, pp. 143-155, ISBN 978-3901439-09-4.
- D. Kalligeropoulos, S. Vasileiadou, *Die Hydraulik bei Heron von Alexandria und Ihre Rekonstruktion / Η Υδραυλικ του Ήρωνα του Αλεξανδρινού & η Ανακατασκευή της*, Proceedings 16. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2009, pp. 176-181, ISBN 978-3-901439-08-7.
- S. Vasileiadou, N. Karcantias, *Conceptual and Mathematical Modelling – The Platonic Dichotomy and the Euclidean Anthyphairetic Method*, Proceedings European Control Conference ECC '07, Cos, 2007, pp. 242-248.
- S. Vasileiadou, D. Kalligeropoulos, *Myth, Theory and Technology of Automatic Control in Ancient Greece*, Proceedings European Control Conference ECC '07, Cos, 2007, pp. 249-256.
- N. Karcantias, S. Vasileiadou, *Systems and their Origins in Ancient Greece*, Proceedings European Control Conference ECC '07, Cos, 2007, pp. 274-280.
- Σ. Βασιλειάδου, *Η Μετρητική Τέχνη στην Αρχαία Ελλάδα*, Πρακτικά 2ου Διεθνούς Συνεδρίου Αρχαίας Ελληνικής Τεχνολογίας, Διοργάνωση: Τεχνικό Επιμελητήριο της Ελλάδος (ΤΕΕ), Εταιρεία Μελέτης Αρχαίας Ελληνικής Τεχνολογίας, Κέντρο Διάδοσης Επιστημών & Μουσείο Τεχνολογίας, Έκδοση Πρακτικών: ΤΕΕ, Αθήνα 2006, σελ. 312-318, ISBN 960-8369-16-9.
- N. Karcantias, S. Vasileiadou, D. Kalligeropoulos, *The Origin of Systems Concepts in Ancient Greece*, Πρακτικά 2ου Διεθνούς Συνεδρίου Αρχαίας Ελληνικής Τεχνολογίας, Διοργάνωση: Τεχνικό Επιμελητήριο της Ελλάδος

(ΤΕΕ), Εταιρεία Μελέτης Αρχαίας Ελληνικής Τεχνολογίας, Κέντρο Διάδοσης Επιστημών & Μουσείο Τεχνολογίας, Έκδοση Πρακτικών: ΤΕΕ, Αθήνα 2006, σελ. 732-738, ISBN 960-8369-16-9.

- D. Kalligeropoulos, S. Vasileiadou, *Mechanik und angewandte Mathematik bei Archimedes / Μηχανική & Εφαρμοσμένα Μαθηματικά στον Αρχιμήδη*, Proceedings 14. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2005, pp. 153-166, ISBN 3-901439-06-4.
- D. Kalligeropoulos, S. Vasileiadou, *Die automatische Kunstuhr von Gaza / Το Αυτόματο Ωρολόγιο της Γάζας*, Proceedings 13. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2003, pp. 101-110, ISBN 3-901439-05-6.
- S. Vasileiadou, *The Platonic Dichotomy and the Euclidean Anthyphairctic Method - The first closed loop mathematical algorithms*, Proceedings 12. Steirisches Seminar über Regelungstechnik und Prozessautomatisierung, Graz Austria, 2001, pp. 118-129, ISBN 3-901439-04-8.
- S. Vasileiadou, N. Karcianas, *Modelling Approaches and system Theoretic Issues in the Integrated Operations of Industrial Processes*, Proceedings ASI '99 (The annual Conference of The Network of Excellence in Intelligent Control and Integrated Manufacturing Systems ICIMS-NOE), Belgium, 1999, pp. 1-17.

PROGRESS REPORTS

- C. Tsironis, S. Vasileiadou, *On controlling the location and the extent of the electron-cyclotron resonance region in tokamak devices*, Prog. Rep. Association Euratom-Hellenic Republic, vol. 15, 2013, Annex 20.