## PERSONAL INFORMATION


# Aphrodite Ktena

TEI of Sterea Ellada, Psahna, Evia GR-34400, GREECE

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apktena@uoa.gr; aktena@teiste.gr; ktenaa@gmail.com


Sex Female | Date of Birth 12/02/1967 | Nationality Greek

## POSITION

Professor

National & Kapodistrian University of Athens, Greece

## WORK EXPERIENCE

30/01/2019 – today

Professor
**National & Kapodistrian University of Athens,** Greece
Laboratory of Energy Systems

26/04/2017-29/01/2019

Professor
**TEI of STerea Ellada**, Greece
Laboratory of Electrical Installations, Department of Electrical Engineering, School of Engineering Applications

01/10/2017-30/09/2018

Visiting Professor
**National Technical University of Athens,** Greece
Electronic Sensors Laboratory, School of Electrical and Computer Engineering

Research on modeling of magnetic nondestructive testing methods

MSc Programe – Microsystems and nanodevices
Introduction to Magnetism and Magnetic Materials

06/06/2013-25/04/2017

Associate Professor
**TEI of STerea Ellada**, Greece
Laboratory of Electrical Installations, Department of Electrical Engineering, School of Engineering Applications

22/02/2013-05/06/2013

Associate Professor
**TEI of Chalkida**[1], Greece
Laboratory of Electrical Installations, Department of Electrical Engineering, School of Engineering Applications

31/12/2008-21/02/2013

Assistant Professor (tenured)
**TEI of Chalkida**, Greece
Laboratory of Electrical Installations, Department of Electrical Engineering, School of Engineering Applications

30/09/2004-30/12/2008

Assistant Professor
**TEI of Chalkida**, Greece
Laboratory of Electrical Installations, Department of Electrical Engineering, School of Engineering Applications

01/03/2002-31/08/2004

Lecturer

**University of Thessaly**, Greece
Department of Mechanical Engineering, School of Engineering

[1] TEI of Chalkida merged with TEI of Lamia to form TEI of Sterea Ellada, P.D.100/05-06-2013

| | |
|---|---|
| 01/01/2003-31/03/2004 | Researcher<br>**Athens University of Economics and Business**, Greece<br><br>Software development |
| 01/12/2001-31/10/2003 | Researcher<br>**National Technical University of Athens,** Greece<br>Institute of Communication and Computer Systems. School of Electrical and Computer Engineering<br><br>Modeling of systems with hysteresis |
| 16/04/1996-31/10/2001 | Postdoctoral Researcher<br>**University of Ioannina,** Greece<br>Department of Computer Science<br><br>Software development, modeling and simulations of systems with hysteresis and elastic/viscoelastic systems |
| 01/06/1995-31/07/1995 | Postdoctoral Researcher<br>**Université Paris-Sud**, France<br>Laboratoire de Physique des Solides, Training and Mobility of Researchers (TMR),<br><br>Modeling of thermomagnetic writing |
| 01/10/1999-05/07/2002 | Instructor<br>**TEI of Chalkida**, Greece<br>Department of Electrical Engineering, School of Engineering Applications |

## OTHER POSITIONS HELD

| | |
|---|---|
| `01/04/2005 – today | ERASMUS Institutional Coordinator<br>TEI of Sterea Ellada (01/08/2013 – 29/01/2019)<br>TEI of Chalkida (01/04/2005 – 04/06/2013)<br><br>Management and coordination of ERASMUS actions:<br>❑ 01/10/2016 – today: ERASMUS+ International Credit Mobility (KA107), Budget ~110,000€<br>❑ 01/10/2014 – today: ERASMUS+ for Higher Education (KA103), Budget ~90,000 / year<br>❑ 01/10/2007 – 30/09/2014: Life Long Learning – ERASMUS, Budget ~ 70,000 / year<br>❑ 01/10/2004 – 30/09/2007: Socrates II / ERASMUS, Budget ~55,000 / year |
| 04/04/2014 – 31/08/2016 | Head of Department of Electrical Engineering<br>School of Engineering Applications, **TEI of Sterea Ellada**, Greece |
| 01/11/2005 – today | Director of Laboratory of Electrical Installations<br>Department of Electrical Engineering, School of Engineering Applications, **TEI of Sterea Ellada** (ex-TEI of Chalkida), Greece |

## EDUCATION & TRAINING

01/01/1990 – 01/09/1993

### M. Sc. / Ph. D.

Department of Electrical and Computer Engineering, Carnegie- Mellon University, USA

Ph.D. Dissertation: **Vector Preisach Modeling and Magnetic Recording Applications**
Advisor: **Professor Stanley Charap**

20/08/1986 – 31/12/89

### B.Sc.

Department of Electrical Engineering, University of Bridgeport, USA

GPA: 3.87/4.00 (**summa cum laude)**

01/10/1984 – 31/07/1986

Department of Physics, School of Science, National & Kapodistrian University of Athens, Greece (transferred to University of Bridgeport, USA)

## PERSONAL SKILLS

Mother tongue: Greek

Other languages

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C2 | C2 | C2 |
| | Graduate of American College of Greece (Pierce College), University of Bridgeport – USA, Carnegie Mellon University – USA | | | | |
| French | C1 | C1 | C1 | C1 | C1 |
| | Diplôme d' Etudes Supérieures , Sorbonne II (Option Etudes Politiques) | | | | |

## RESEARCH

### Research interests

- Modeling and characterization of magnetic materials – Preisach modeling
- Magnetic Non Destructive Testing Methods
- Sensors and measurement systems
- Renewable Energy Sources Microgrids
- Smart metering
- Gamification
- Engineering Education

### Research programmes

Project Coordinator

ELEMEND – **Electrical Energy Markets and Engineering Education**
Duration: 2017 – 2020
Budget: 930,543 €

SMARTEGE – **Gamification for Educational Processes**
Duration: 2013-2015
Budget: 98,000€

ARCHIMEDES II – **Magnetostrictive torque sensor**
Duration: 2005-2008
Budget: 50,000€

Researcher

| | |
|---|---|
| 2012 – 2015 | ARCHIMEDES III – Modeling & optimization of magnetostrictive torque sensor |
| 2008 – 2009 | AWISSENET - Ad-hoc PAN & WIreless Sensor SEcure NETwork, IST-7TH Framework |
| 2005 – 2008 | ARCHIMEDES II – Reliable & adjustable system of automated storage, GSRT |

## ADDITIONAL INFORMATION

Reviewer

- Applied Physics A
- Applied Science
- Buildings
- Computational Materials Science
- Energies
- IEEE Transactions on Magnetics
- Journal of Alloys and Compounds
- Journal of Colloid and Interface Science
- Journal of Engineering
- Journal of Magnetics
- Journal of Physics D: Applied Physics
- Journal of Physics and Chemistry of Solids
- Journal of Modern Education Review
- Materials
- Materials & design
- Measurement
- Measurement Science & Technology
- Metals
- Micromachines
- Meteorologische Zeitschrift
- Physica B
- Sensors and Actuators A, Journal of Physics: Condensed Matter
- Smart Materials & Structures
- Sustainability

Editor

Associate Editor

- IEEE TRANSACTIONS ON MAGNETICS

Guest Editor

Editor in Chief

- IEEE TRANSACTIONS ON MAGNETICS, VOL. 49, NO. 1, JANUARY 2013, Selected papers of the European Magnetic Sensors and Actuators Conference, EMSA2012 (Prague 2012)
- IEEE TRANSACTIONS ON MAGNETICS, VOL. 51, NO. 1, JANUARY 2015, Selected papers of the European Magnetic Sensors and Actuators Conference, EMSA2014 (Vienna 2014)
- IEEE TRANSACTIONS ON MAGNETICS, JANUARY 2019, Selected papers of the European Magnetic Sensors and Actuators Conference, EMSA2018 (Athens 2018)

Associate Editor

- IEEE TRANSACTIONS ON MAGNETICS, VOL. 48, NO. 4, APRIL 2012, Selected papers of the Soft Magnetic Materials Conference, SMM20 (Kos 2011)
- IEEE TRANSACTIONS ON MAGNETICS, VOL. 50, NO. 4, APRIL 2014, Selected papers of the Soft Magnetic Materials Conference, SMM21 (Budapest 2013)
- IEEE TRANSACTIONS ON MAGNETICS, VOL. 52, NO. 5, MAY 2016, Selected papers of the Soft Magnetic Materials Conference, SMM22 (Sao Paolo 2015)
- IEEE TRANSACTIONS ON MAGNETICS, VOL.53, NO.4, Selected papers of the

European Magnetic Sensors and Actuators Conference, EMSA2016 (Torino 2016)

## Other activities

- **Joint MMM-Intermag**, Washington DC 2019, Programme Committee member
- European Magnetic Sensors and Actuators Conference, **EMSA2014** (Vienna), Scientific Committee member; **EMSA2016** (Torino), Scientific Committee member; **EMSA2018** (Athens), Scientific and Organization Committee member
- Soft Magnetic Materials, **SMM20** (Kos 2011), Organization Committee member; **SMM22** (Sao Paolo 2015), Publishing Committee member
- International Conference on Education and New Developments **END2018** (Budapest), **END2019** (Porto); Scientific Committee member
- Mediterranean Excellence in Computing and Ontology – **MECOnet**, Scientific Committee member
- MECO ELEMEND Workshop, Budva 2018, Chair
- Symposium on Hysteresis and Micromagnetic Modeling, **HMM07**, Napoli 2007, Reviewer and session chair
- International Workshop on Systems and Signal Processing, **IWSSIP09**, Chalkida 2009, Organization Committee member and session chair
- International Conference on Materials and Applications for Sensors and Transducers, **ICMAST2011**, Kos 2012, Organization Committee member and session chair
- **7th Metrology Conference**, Athens 2018, Scientific and Organization Committee member

## Invited talks

- Stanley H. Charap and Aphrodite Ktena, Vector Preisach Modeling, 38th Annual Conference on Magnetism and Magnetic Materials, Minneapolis (1993)
- A. Ktena, D. I. Fotiadis, C. V. Massalas, Modeling hysteresis curves of magnetic and magnetostrictive materials, Proceedings of the 28th International Summer School on Application of Mathematics in Engineering and Economics, Sozopol, Bulgaria (2002)
- Hristoforou E, Ktena A., Magnetostriction and magnetostrictive materials for sensing applications, San Sebastian (2007)
- A. Ktena, Residual stresses and vector hysteresis modeling, HMM2015, Iasi (2015)
- Aphrodite Ktena, Xenia Vourna, Evangelos Hristoforou, New problems in magnetic material modeling, 5th KMM-VIN Industrial Workshop, Multi-scale and multi-physics materials modeling for advanced industries, Madrid (2016)
- E. Hristoforou, P. Vourna, A. Ktena and P. Svec, STRESS MONITORING & ANNIHILATION IN STEELS BASED ON MAGNETIC TECHNIQUES, CSMAG'16 16th Czech and Slovak Conference on Magnetism, Košice, Slovakia, June 13th-17th (2016)
- P. Vourna, A. Ktena, E. Hristoforou, Determination of the residual stress tensor distribution in steels using magnetic properties, International Conference on Metallurgy and Materials 2016, Sofia (2016)
- Evangelos Hristoforou, Aphrodite Ktena, Shengkai Gong, Magnetic Sensors: Taxonomy, Applications and New Trends, MMM-Intermag, Washington DC (2019)

## Other talks

- Aphrodite Ktena, Christos Manassis, An overview of sensors, hysteresis modeling and MATLAB applications, Artesis Plantijn Hogeschool, Antwerpen (2005)
- Aphrodite Ktena, Preisach Formalism & Applications in magnetic materials, Department of materials science and technology, University of Crete (2011)
- A.Ktena, E. Hristoforou, Physics and Modeling of Magnetic Non Destructive Testing Techniques, Universal Network of Magentic Non-Destructive Testing, Kos (2011)
- Aphrodite Ktena, Student Centered Learning - implementation at various levels and different contexts, Workshop on Student-Centered Learning in Higher Education Institutions, Chisinau, Moldova (2013)
- Vassilios Katsifas, Aphrodite Ktena, Christos Manasis, TIDAL ENERGY THE EVRIPOS' STRAIT CASE, University of Cranfield, UK (2013)
- Aphrodite Ktena, Evangelos Hristoforou, Xenia Vourna, Magnetic Non-Destructive Testing Techniques, University of Cranfield, UK (2013)
- Aphrodite Ktena, How smart can a building be (ICT in ZEB), Workshop in Energy management for buildings in the Region of Continental Greece, Chalkida (2014)
- Aphrodite Ktena, Gamifying the learning process, University of Novi Sad, April 2018

## Courses Taught

Undergraduate courses

- Measurement Technology

- Electrical Measurements
- Measurement systems
- Electrical Installations
- Electrical circuits
- Design of electrical & electronic circuits
- Mechatronics
- Electronics
- Positioning Systems via Radio Communication

Graduate courses

- System optimization
- Modelling and simulation
- Electricity markets and standards
- Introduction to Magnetism and Magnetic Materials
- Dielectric Sensors

Memberships

- Technical Chamber of Greece (T.E.E.), since 2005, M71629
- IEEE, M92104696
- CIGRE, since 2014

**MONOGRAPHIES**

1. Aphrodite **Ktena**, Vector Preisach Modeling and Magnetic Recording Applications, Ph.D. Dissertation, Department of Electrical and Computer Engineering, Carnegie- Mellon University, USA

**CHAPTERS in BOOKS**

1. Aphrodite **Ktena**, Evangelos Hristoforou, Magnetic Effects in Sensing Applications, Encyclopedia of Sensors, ed. C.A.. Grimes et. al., Vol. 10, pp. 1-70 (2006)
2. Aphrodite **Ktena**, Gamification and technological literacy - Educating electricity users, Chapter 12, Education Applications & Developments II, Mafalda Carmo, Ed., In Science Press, pp 123-134 (2016).

**PUBLICATIONS (ISI JOURNALS)**

1. Stanley H. Charap and Aphrodite **Ktena**, Vector Preisach Modeling, Journal of Applied Physics, 73(10), 5818-5823 (1993)
2. Aphrodite **Ktena** and Stanley H. Charap, Vector Preisach Modeling and Recording Applications, IEEE Transactions in Magnetics, 29(6), 3661-3663 (1993)
3. A. Charalambopoulos, A. **Ktena**, D. I. Fotiadis, C. V. Massalas, The effect of Viscoelastic Brain on the Dynamic Characteristics of the Human Head - Neck System, Acta Mechanica, 130, 159-173 (1998)
4. A. **Ktena**, D. I. Fotiadis, C. V. Massalas, A new 2-D model for inhomogeneous permanent magnets, IEEE Transactions of Magnetics, 36 (6), 3926-3931 (2000)
5. A. **Ktena**, D. I. Fotiadis, C. V. Massalas, A 2-D model for inhomogeneous permanent magnets, Journal of Applied Physics, 87 (9), 4780-4782 (2002)
6. A. **Ktena**, D. I. Fotiadis, P. D. Spanos, C. V. Massalas, A Preisach model identification procedure and simulation of hysteresis in ferromagnets and shape memory alloys, Physica B, 306 (1-4), 25015-25021 (2002)
7. A. **Ktena**, D. I. Fotiadis, P. D. Spanos, A. Berger and C. V. Massalas, Identification of 1D and 2D Preisach models for ferromagnets and shape memory alloys, International Journal of Engineering Science, 40 (20), 2235-2247 (2002)
8. H. Hauser, E. Hristoforou and A. **Ktena**, Modeling of magnetostriction in delay lines, Journal of Applied Physics, 93 (10), 8633-8635 (2003)
9. A. **Ktena**, D.I. Fotiadis, and C.V. Massalas, Hysteresis modeling in materials and systems, Advanced Composites Letters, 13 (1), 85-91 (2004)
10. A. **Ktena**, D.I.Fotiadis, A. Berger and C.V.Massalas, Hysteresis modeling of Gd-films and AFC- thin film recording media, Physica B, 343, 101-106 (2004)
11. A. **Ktena**, D.I.Fotiadis, A. Berger and C.V.Massalas, Preisach modeling of AFC magnetic recording media, IEEE Transactions in Magnetics, 40 (4), 2128-2130 (2004)
12. Ioanna Giouroudi, Aphrodite **Ktena**, Evangelos Hristoforou, Microstructural Characterization of Cylindrical $Fe_{1-x}Ni_x$ Thin Films, Journal of Optoelectronics & Advanced Materials, 6 (2), 593-598 (2004)
13. Christos Petridis, Paraskevas Tsaklidis, Afroditi **Ktena**, Evangelos Hristoforou, Negative magnetostrictive delay lines used in sensing applications, Journal of Optoelectronics & Advanced Materials, 6 (2), 661-666 (2004)
14. A. Berger, D. Margulies, H. Do, A. **Ktena**, and K. Dahmen, Lateral Correlation Length of Magnetization Reversal in Soft Magnetic Films, J. Appl. Phys. 97, 10K109-1:3 (2005)
15. D. M. Kepaptsoglou, A. **Ktena**, E. Hristoforou, Magnetic Sensor Uncertainty Dependence on Hysteresis Effects, Sensors and Actuators A 119, 133-137 (2005)
16. A. Berger and A. **Ktena**, Hysteresis Gain-to-Loss-Ratio Measurements, Physica B 372, 147-151 (2006)
17. Kontos N, **Ktena** A, Sofianopoulou T, et. al., Inductive response of ferrites based on resonance effects, Journal of Optoelectronics & Advanced Materials, 8 (5): 1770-1774 (2006)
18. Hristoforou E, **Ktena** A., Magnetostriction and magnetostrictive materials for sensing applications, Journal of Magnetism and Magnetic Materials 316 (2): 372-378 (2007)
19. Petridis C, **Ktena** A, Bolshakova I, et al., On the magnetic and magnetoelastic uniformity measurements on magnetostrictive ribbons and wires, Journal of Magnetism and Magnetic Materials 316 (2): E628-E631 (2007)
20. **Ktena** A, Alexandrakis V, Panagiotopoulos I, et al., A study on the macroscopic properties of hard/soft bilayers, Physica B – Condensed Matter 403 (2-3): 320-323 (2008)
21. **Ktena A**., Hristoforou E., Stress dependent magnetization and vector Preisach modeling in low carbon steels, IEEE Transactions of Magnetics, vol. 48, n.4, pp. 1433 – 1436 (2012)
22. **Aphrodite Ktena**, Evangelos Hristoforou, Gunther J.L. Gerhardt, FrankP. Missell, Fernando J.G. Landgraf, Daniel L. Rodrigues Jr., M. Alberteris-Campos, Barkhausen noise as a microstructure characterization tool, Physica B, 435, 109-112 (2014)
23. **Aphrodite Ktena**, Daniele Davino, Ciro Visone, Evangelos Hristoforou, Stress dependent vector magnetic properties in electrical steel, Physica B, 435, 25-27 (2014)
24. **Aphrodite Ktena**, Christos Manasis, Evangelos Hristoforou, On the measurement of permeability and magnetostriction in ribbons and wires, IEEE Transactions on Magnetics 50 (4), 1-4 (2014)

25. Polyxeni Vourna, **Aphrodite Ktena**, Evangelos Hristoforou, Residual Stress Analysis in Non-Oriented Electrical Steel sheets by Barkhausen Noise Measurements, IEEE Transactions on Magnetics, 50 (4), 1-4 (2014)
26. P. Vourna, **A. Ktena** , P.E. Tsakiridis, E. Hristoforou, A novel approach of accurately evaluating residual stress and microstructure of welded electrical steels, NDT & E International, 71, 33–42 (2015)
27. Vourna, P. Hervoches, C., Vrana, M., **Ktena, A**., Hristoforou, E., Correlation of Magnetic Properties and Residual Stress Distribution Monitored by X-Ray and Neutron Diffraction in Welded AISI 1008 Steel Sheets, IEEE Transactions on Magnetics, 51 (1) (2015)
28. P. Vourna, **A. Ktena**, P.E. Tsakiridis, E. Hristoforou: An accurate evaluation of the residual stress of welded electrical steels with magnetic Barkhausen noise, Measurement: Journal of the International Measurement Confederation, 71, pp. 31-45 (2015)
29. Evangelos Hristoforou, Polyxeni Vourna, Aphrodite Ktena, and Peter Svec, On the Universality of the Dependence of Magnetic Parameters on Residual Stresses in Steels, IEEE Transactions on Magnetics, 52 (5) (2016) 6201106 doi: 10.1109/TMAG.2015.2509642
30. **A Ktena**, Vector Preisach modeling of magnetic materials under stress, J. Phys.: Conf. Ser. 585 (2015) 012001 doi:10.1088/1742-6596/585/1/012001
31. **Aphrodite Ktena**, Christos Manasis, Dimitrios Bargiotas Vasilis Katsifas Takvor Soukissian, Harilaos Kontoyiannis, Energy Potential of Euripus' Gulf Tidal Stream, IEEE Transactions DOI: 10.1109/IISA.2015.7388041 (2016)
32. **A. Ktena**, Residual stresses and vector hysteresis modeling, Physica B: Condensed Matter, 486, 29-33 (2016)
33. Polyxeni Vourna, Evangelos Hristoforou, Aphrodite Ktena, Peter Svec, Eleni Mangiorou, Dependence of magnetic permeability on residual stresses in welded steels, IEEE Transactions on Magnetics (2016) doi: 10.1109/TMAG.2016.2628025
34. E Hristoforou, **A Ktena**, P Vourna, K Argiris, Dependence of magnetic permeability on residual stresses in alloyed steels, AIP Advances 8 (4), 047201 (2017)
35. P Vourna, **A Ktena**, P Tsarabaris, E Hristoforou, Magnetic Residual Stress Monitoring Technique for Ferromagnetic Steels, Metals 8 (8), 592 (2018)
36. S Angelopoulos, P Vourna, **A Ktena**, P Tsarabaris, E Hristoforou, Design and Development of a New Magnetometer Calibration Device, IEEE Transactions on Magnetics, 2019
37. E Hristoforou, **A Ktena**, S Gong, Magnetic Sensors: Taxonomy, Applications, and New Trends, IEEE Transactions on Magnetics, 2019

**PUBLICATIONS (other JOURNALS)**

38. Petridis C, **Ktena** A, Laskaris E, et al. Ni-Fe thin film coated Cu wires for field sensing applications, Sensors Letters 5 (1): 93-97 (2007)
39. **Ktena Aphrodite**, Manasis Christos, and Tsakiridis Petros, Design and Characterization of a Magnetostrictive Torque Sensor, Sensors Letters, 10, 1–3 (2013)
40. P Vourna, **A Ktena**, A Mpalliou, AG Mamalis, E Hristoforou, Steel Health Monitoring Using Magnetic Techniques, Material Science Forum 792, 139-143 (2014)
41. **Aphrodite Ktena**, Christos Manasis, Dimitrios Bargiotas, Vasilis Katsifas, Takvor Soukissian, Harilaos Kontoyiannis, Estimation of the Energy Potential of the Euripus' Gulf Tidal Stream Using Channel Sea-surface Slope, International Journal of Monitoring and Surveillance Technologies Research (IJMSTR), 3(4), 23-42, (2016)
42. P Vourna, **A Ktena**, AG Mamalis, E Hristoforou, PW Chen, Q Zhou, Magnetic Barkhausen measurements for determining residual stress distribution in welded electrical steels, Material Science Forum 856, 147-152 (2016)
43. **Aphrodite Ktena**, Charalambos Elias, Christos Manasis, Yannis Koutsoubis, Enea Mele, Elias Constantos, Evgenia Tsalkitzi, Anna Tatsiopoulou, Christos Tatsiopoulos, Gamification for energy use profiling, B&H Electrical Engineering", 12, 2018.
44. Mirza Saric, Jasna Hivziefendic, Tatjana Konjic, **Aphrodite Ktena**, Distributed generation allocation considering uncertainties, International Transactions on Electrical Energy Systems, 28 (9), e2585 (2018) https://doi.org/10.1002/etep.2585

**PUBLICATIONS in CONFERENCE PROCEEDINGS**

1. A. **Ktena**, D. I. Fotiadis, C. V. Massalas, Comparison of nucleation models for inhomogeneous ferromagnetic materials, Proceedings of 5th National Congress on Mechanics, Ioannina, Vol.2, 790-801 (1998)
2. A. **Ktena**, D. I. Fotiadis, C. V. Massalas, Use of Preisach Models to Study Hysteresis, proceedings of 16th IMACS WORLD CONGRESS 2000 on Scientific and Computation Applied Mathematics and Simulation (2000)
3. A. **Ktena**, D. I. Fotiadis, C. V. Massalas, Two-dimensional Preisach Models, in G.Dassios, D.I.Fotiadis, K.Kiriaki and C.V.Massalas (Eds), Proceedings of 4th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering in Scattering Theory and Biomedical Engineering Modeling and Applications, World Scientific, 159-171 (2000)
4. A. **Ktena**, D. I. Fotiadis, P. D. Spanos, C. V. Massalas, An identification method for vector Preisach-type models of hysteresis, in D. I. Fotiadis and C. V. Massalas (Eds), Proceedings of 5th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering in Scattering Theory and Biomedical Engineering Modeling and Applications, World Scientific, 240-253 (2002)
5. A. **Ktena**, D.I. Fotiadis, C.V. Massalas, Hysteresis Modeling and its Applications, Proceedings of 6th International Workshop on Mathematical Methods in Scattering Theory and Biomedical Engineering, Tsepelovo (2003)
6. A. **Ktena**, D.I. Fotiadis, A. Berger and C.V. Massalas, Comparison of hysteresis models for AFC-disk drive recording media, PIERS'04, Pisa (2004)

7. A. **Ktena** and C. Manassis, Preisach Hysteresis Modeling and Applications, 2006 IASME/WSEAS International Conference on: Energy and Environmental Systems, Evia (2006)
8. O. Ladoukakis, S. Tsitmidelis, A. **Ktena**, A New Genetic Algorithm for Motor Parameter Estimation, 2006 WSEAS CSCC06, Vouliagmeni (2006)
9. V. Karagiannis, A. **Ktena**, D. M. Kepaptsoglou, On the uncertainty of sensors based on magnetic effects, Slovak Center of IEEE, Journal of Electrical Engineering, Vol. 59, No7/s, 55-57 (2008)
10. E. Hristoforou, E. Kayafas, **A. Ktena**, DM Kepaptsoglou, On the Uncertainty of sensors Based on Magnetic Effects, 13th Workshop on ADC Modelling and Testing Sep. 22-24, 2008, Florence, Italy
11. K. Papadopoulos, S. Voliotis, A. **Ktena**, P. Trakadas, Th. Zahariadis, Security Aspects in Wireless Sensor Networks, TEMU (2008)
12. C. Tatsiopoulos, A. **Ktena**, A Smart ZIGBEE Based Wireless Sensor Meter System, IWSSIP09, Chalkida (2009)
13. Aphrodite **Ktena**, Nelly Leligou, Frederik Schrooyen and René Steurs, PoRaC- Positioning systems by Radio Communication - A Students' Search for New Applications, IWSSIP09, Chalkida (2009)
14. Dimitrios Bargiotas, Aphrodite **Ktena**, Christos Manasis and Onoufrios Ladoukakis, A scalable low-cost automated storage & retrieval system, IWSSIP09, Chalkida (2009)
15. A. **Ktena**, C. Manasis, C. Papadopoulos, D. Bargiotas, O. Ladoukakis, K. Ziatakis, I. Valsamis, F. Magkafas, John Petrou, Chris Petridis, Measurement system for a magnetostrictive torque sensor, IWSSIP09, Chalkida (2009)
16. **Ktena Aphrodite,** Physics and Modeling of magnetic nondestructive techniques, Proc. of ICMAST2011 (Kos) in Key Engineering Materials, 495, 265-268 (2012)
17. Vourna P., **Ktena A**., Correlation of microstructure to macroscopic magnetic measurements in electrical steels, Proc. of ICMAST2011 (Kos) in Key Engineering Materials, 495, 257-26 (2012)
18. Vourna P., **Ktena A**., Metallurgical, mechanical and magnetic properties of electrical steel sheets in TIG and PLASMA welding, Proc. of ICMAST2012 (Budapest) in Key Engineering Materials, 543, 479-482 (2013)
19. **Ktena A., Hristoforou E.,** Outlook of Preisach modeling and magnetic nondestructive testing, Proceedings of ICMAST2012 (Budapest) in Key Engineering Materials, 543, 1-4 (2013)
20. Enea Mele, Eugenia Tsalkitzi, Elias Constantos, Charalambos Elias, Yannis Koutsoubis, **Aphrodite Ktena**, Christos Manasis, Christos Tatsiopoulos, Anna Tatsiopoulou, Gamifying energy user profiles, Proceedings of 3rd Annual International Interdisciplinary Conference, AIIC 2015, 8-11 July, Azores Islands, Portugal, 526-539 (2015)
21. Christos Manasis, **Aphrodite Ktena**, Vassilis Katsifas, Takvor Soukissian, Harilaos Kontoyiannis, TIDAL ENERGY: THE CASE OF EURIPUS' STRAITS, AIIC 2015, 8-11 July, Azores Islands, Portugal, 540-554 (2015)
22. Christos Tatsiopoulos, **Aphrodite Ktena**, Enea Mele, Christos Manasis, Charalambos Elias, Yannis Koutsoubis, Eugenia Tsalkitzi, Anna Tatsiopoulou, SMARTEGE: Gamification for energy profile modification, Proceedings of the International Gamification of Business Conference IGBC15, September 21-22, Birmingham, UK, 88-95 (2015)
23. **Aphrodite Ktena**, Building gamified applications for informal education, Proceedings of International Conference on Education and New Developments END2015, June 27-29, Porto, Portugal, 281-285 (2015)
24. **Aphrodite Ktena**, Enea Mele, Eugenia Tsalkitzi, Charalambos Elias, Christos Manasis, Gamification of energy profile modification, Proceedings of International Conference on Education and New Developments END2015, June 27-29, Porto, Portugal, 271-275 (2015)
25. **Aphrodite Ktena**, Developing gamified course content, Proceedings of The European Conference of Education ECE2015, July 1-5, Bristol, UK, 709-720 (2015)
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