




PERSONAL INFORMATION Constantinos Condaxakis


 Hellenic Mediterranean University (HMU) – School of Engineering – Mechanical Engineering Department -Power Systems Synthesis Laboratory, Estavromenos 71004 Heraklion, Greece.
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Gender Male | **Birth date** 18/07/1962 | **Nationality** Hellenic

MARITAL STATUS: Married to Mrs Marina Kritsotaki and father of three (3).

PROFESSIONAL EXPERIENCE

2008 – present

Assistant Professor.

- Hellenic Mediterranean University (HMU) – School of Engineering – Mechanical Engineering Department, from 31-07-2019 (Government Gazette 3075 τ.Β' 31-07-2019).
- Technological Education Institute, School of Applied Science, Mechanical Engineering Department (until 31-07-2019)

Lecturing and organization of the following courses at the Mechanical Engineering Department:

- Wind Energy & Applications
- Mechanical Drawing I - CAD,
- Mechanical Drawing II - CAD,
- Mechanical Design II
- Industrial Systems and Maintenance

Lecturing and organization of the course «Wind Energy Systems» in the Interdepartmental MSc Program "Energy Systems" of H.M.U.

Lecturing and organization of the course «Industrial Maintenance and fault diagnosis» in the Interdepartmental MSc Program « Advanced Systems, of Production, Automation and Robotics » in the Technological Institute of Crete.

Supervision of more than 50 final study and master theses(more than 5 master theses) of students of the Mechanical and Electrical engineering departements,of the Tecnical Instudyte of Crete, and the H.M.U.

Academic coordination of the ERASMUS+ programme

Sector of activity: Higher Educational Institution.

2019

Energy Works I.K.E:Condment of preliminary study for the submission of application to the Regulatory Authority of Energy(RAE), for the licence acquisition to produce electricity from a wind farm in Municipality of Rethymnon.

2020

WRE HELLAS A.E, Calculation of annual energy production and estimation of lost profits for the Wind Park on the "Alonia" site , Municipality of Monemvasia, Regional Unit of Lakonia, Region of Peloponese

2020

Municipality of Lasithi Plaeau, Programmatic Contract, Market Research, for Production, maintenance and operation factors regarding the electricity-generating windmills in the form of the Lasithi windmill.

2021-2023

Cooperation Programme" INTERREG V-A Greece-Cyprus 2014-2020, UPGRATE" - Energy upgrade of the historical buildings of the Presidential Palace of the Republic of Cyprus and the Loggia - City Hall of Heraklion.

2022-2024

Region of Crete / Regional Unit of Lasithi, Program contract: Interdisciplinary investigation for the possibility of developing energy windmills of the Lasithio type in the Municipality of the Lasithi Plateau

2019-2020

Municipality of Malevizi, Program contract: Research - documentation and pilot designs for the formation of interdependence between outdoor and indoor spaces of the school building complexes of the Municipality of Malevizi, aiming at the well-being and thermal comfort of the users.

2017-2019	7 th regional sanitation authority, Program contract: Research and Development of Pilot Applications for the Environmental - Energy Update - Upgrading of the Primary Care Health Units of the Primary National Health Network .
2005 – present	Responsible for Quality Assurance (ISO17025).
2005 – present 2004-2007	Wind Energy and Power Plant Synthesis Laboratory, TEI of Crete. Certification system for wind measurements and performance measurements of small wind turbines. Sector of activity: Higher Educational Institution.
2004-2007 1994-2004	Research Partner. T.E.I. of Crete, Mechanical Engineering Department, School of Applied Science, Technological Education Tutoring, solving problems and conducting workshops in various courses Sector of activity: Higher Educational Institution.
1994-2004 2005-2007	Lab Partner T.E.I. of Crete, Mechanical Engineering Department, School of Applied Science, Technological Education Tutoring, solving problems and conducting workshops in various courses Sector of activity: Higher Educational Institution.
2005-2007	Researcher-Mechanical Engineer Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete
2005-2006	AKMON Research Program (General Secretariat of Research and Development) 04 AKMON 63 (Operational Program "COMPETITIVENESS", measure 4.2.2.), "Diagnosis of faults and measurement of Quality". Sector of activity: Higher Educational Institution.
2005-2006	Researcher-Mechanical Engineer Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete
2004-2006	ARCHIMEDES II research program, "Development of an entropic kinesiometer". Sector of activity: Higher Educational Institution. Researcher-Mechanical Engineer Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete ARCHIMEDES II research program, "Power Quality of Complex Energy Systems". Sector of activity: Higher Educational Institution.
2003-2006	Special Account for Research Grants (EAK2)- T.E.I. of Crete- "Developmental of Crete" Limited Liability Company (LLC) Conducting Energy Inspections on investments included in the COMPETITIVENESS program and contributing to the implementation of the project as Deputy Project Manager. Sector of activity: Higher Educational Institution.
2003-2005	Researcher – Mechanical Engineer in feasibility studies.
2003-2005 2001-2002	Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete Feasibility studies for more than 10 private sector investors (see Appendix). Sector of activity: Higher Educational Institution. Researcher-Mechanical Engineer
2001-2002 2000	Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete Development of 3 different models of small wind turbines for the project "LEADER II". Sector of activity: Higher Educational Institution.

- Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete
- Feasibility study for the development of renewable energy sources in Lassithi Prefecture, for the ALTENER program.
Sector of activity: Higher Educational Institution.
Researcher-Mechanical Engineer
- 2000 Researcher-Mechanical Engineer
at
Elective Courses, Energy Environmental Technology,. Special Account for Research Grants (EAK2)- T.E.I. of Crete
Sector of activity Higher Educational Institution.
- Feasibility study for the development of renewable energy sources in Lassithi Prefecture, for the ALTENER program.
Sector of activity: Higher Educational Institution.
Researcher-Mechanical Engineer
- 1999 Researcher-Mechanical Engineer
at
Wind Energy and Power Synthesis Lab, Special Account for Research Grants (EAK2)- T.E.I. of Crete
Sector of activity Higher Educational Institution.
- Design study of a 550kW wind turbine tower for the MELTEMI-KASTRI company.
- 1998-1999 Researcher-Mechanical Engineer
at
Elective Courses, Energy Environmental Technology,. Special Account for Research Grants (EAK2)- T.E.I. of Crete
Sector of activity Higher Educational Institution.
- Support of the "Energy and Environmental Technology" in the assessment and evaluation of the program.
- Sector of activity Higher Educational Institution.

EDUCATION & TRAINING

- 1996-2000 PhD from
"Ecole Doctorale, Université de la Rochelle ", France,

Dissertation topic: "Passive control of wind turbine blades and simulation of their operation"
Recognized by the " Interuniversity Center for the Recognition of Diplomas of Foreign Studies"(ΔΙ.Κ.Α.Τ.Σ.Α)
: act 31-1590 of 11/3/2004.
- 1992-1993 Expertise certificate from
"Ecole Nationale d'Ingénieurs de Tarbes", France

Specialization in the design of industrial products (CAD/CAM/CAE).
- 1991-1992 Maîtrise de Technologies Mécaniques from
the "Université Paul Sabatier de Toulouse", France
- 1989-1991 Licence de Technologies Mécaniques from
the "Université Paul Sabatier de Toulouse", France

1980-1984

Mechanical Engineer T.E.
T.E.I. of Crete, Mechanical Engineering Department.

ADMINISTRATIVE EXPERIENCE

- 2009-2010 Chairman of the Procurement Committee at the Purchasing Department, T.E.I. of Crete
- 2007-2016
2019-2020
- Sector of activity Higher Educational Institution.
Member of the "Internal Evaluation Team" , Mechanical Engineering Department , T.E.I. of Crete
- 2010-2013
- Sector of activity Higher Educational Institution
Member of the "Work Team" for the students's internship of the T.E.I. of Crete
- 2013-2022
- Sector of activity Higher Educational Institution
Member of the three-member coordination committee of the EDE c at the Interdepartmental Master's Program "Energy Systems", TEI of Crete.
- 2004-2006
- Internship supervisor at Special Account for Research Grants (EAKΕ)- T.E.I. of Crete
- 2013-2015
- Member of the "Quality Assurance Unit (QAU)." Special Account for Research Grants (EAKΕ)- T.E.I. of Crete, Department of Mechanical Engineering
- 2018-2019
- Member of the Procurement Committee, Purchasing Department, TEI of Crete.
- 2022-present
- Sector of activity Higher Educational Institution.
Member of the five-member Study Committee, Interdepartmental Master's Program "Energy Systems", H.M.U.
- Sector of activity Higher Educational Institution.

- 2019-present Member of the three-member committee, Doctoral Studies Department of Mechanical Engineering. Evaluation of PhD candidate applications.

Sector of activity Higher Educational Institution.
- 2021-present Deputy President at the Mechanical Engineering department.

Official Gazette 627 of 03-08-2021, No. 4460/Φ20.
Sector of activity Higher Educational Institution.

PERSONAL SKILLS

Native Language	UNDERSTANDING		Greek VERBAL		WRITEN
	Speaking	Reading	Επικοινωνία	Προφορική έκφραση	
Other Languages					
English	B2	B2	B2	B2	B2
French	C2	C2	C2	C2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Expert user
Common European Framework of Reference for Languages

- Communication skills** Good social skills and abilities due to:
- more than twenty years of educational experience,
 - the long-term trade union experience,
 - participation in a number of scientific conferences,
 - participation in numerous committees.

SELF-EVALUATION				
Data processing	Communication	Content Creation	Security	Problem Solving
Experienced user	Experienced user	Experienced user	Independed user	Independent user

Digital Skills Good knowledge of the softwares:
MS Windows , MS Office, Autodesk AutoCAD, RISOE Wasp 9.1, Golden Software Surfer 8, Dassault Systems Solidworks 2020, CRES WindRose, ANSYS, CFD programs.

PUBLICATIONS

- [1] Δ. Αλ. Κατσαπρακάκης, Γ.Δ. Χρηστάκης, Κ. Γ. Κονταξάκης, «Εισαγωγή Συστήματος Αντλιοσταμίου στο Υφιστάμενο Σύστημα Ηλεκτροπαραγωγής της Κρήτης», Τεχνικά Χρονικά, Επιστημονική Έκδοση Τ.Ε.Ε., Σειρά IV, τεύχος 1-2, σελ. 57-80.
- [2] Dimitris Christakis, Constantin Condaxakis, Michel Eboueya, Patrick Granier, «*A contribution to the passive controlled optimised wind motor design*», Proceedings of CESA'98 Computational Engineering in Systems Applications (IEEE), Nabeul-Hammamet, Tunis. Tunisia. 1-4 April, 1998.
- [3] C.G. Condaxakis, D.G. Christakis, S.T. Frandsen, M. Eboueya «*Passive Controlled Wind Turbine Blade*», EWEC 99, 1-5 Mars 1999, Nice, France.
- [4] Κ. Γ. Κονταξάκης, Μ. Eboueya, Δ.Γ. Χρηστάκης, Θ.Α. Χορτάτσος, Δ.Χ. Ταβερναράκης, «*Η επίδραση του παθητικού ελέγχου ρότορα ΑΓ στο κόστος της παραγόμενης ενέργειας*», Συνέδριο: Τεχνολογίες ήπιων μορφών ενέργειας και περιβάλλοντος, Αθήνα 11-12/Δεκεμβρίου 2000.
- [5] C. G. Condaxakis, D. G. Christakis, C. A. Tsambazis, T. A. Chortatsos, «*Specifications for small wind turbines for autonomous energy systems*», International Conference on Renewable Energies for Islands-Towards 100% RES Supply, 14-16 June 2001, Chania, Crete, Greece.
- [6] C.G. Condaxakis, M. Eboueya, D. G. Christakis, B. Vachon, «*Flexible Wind Turbine Blades Simulation*», EWEC 01, 2-6 July 2001, Copenhagen, Denmark.
- [7] C.A. Tsampazis, D.G. Christakis, C.G. Condaxakis, T.A. Chortatsos, «*The evolution of the Wind Turbine design concept*», EWEC 01, 2-6 July 2001, Copenhagen, Denmark.
- [8] Κ.Γ. Κονταξάκης, Δ.Γ. Χρηστάκης, Ε.Ι. Τζανάκη, Ι.Ι. Πατρουδάκης, Μ. Σερπετσιδάκης, «*Προδιαγραφές μικρών ανεμογεννητριών για αυτόνομα ενεργειακά συστήματα*», Έβδομο Εθνικό Συνέδριο του Ινστιτούτου Ηλιακής Τεχνικής, Πάτρα, 6 - 8 Νοεμβρίου 2002.
- [9] Δ. Χρηστάκης, Μ. Μαρκάκη, Ξ. Δημοστικάλης, Β. Φαουλιάς, Ι. Μηνιαδάκης, Ι. Πατρουδάκης, Κ. Κονταξάκης, Ε. Τζανάκη, «*Επισκοπήσεις, μελέτες και ενέργειες για την πολυεπίπεδη προώθηση των ΑΠΕ στην Κρήτη και στην Κύπρο*», Έβδομο Εθνικό Συνέδριο του Ινστιτούτου Ηλιακής Τεχνικής, Πάτρα, 6 - 8 Νοεμβρίου 2002.
- [10] Εμμ. Κ. Δρετάκης, Κ. Στεργιόπουλος, Κ. Κονταξάκης, Κ. Εμμ. Δρετάκης, Δ. Χρηστάκης, «*Σχεδιασμός ενός προστατευτικού ισχίου*», Ετήσιο Συνέδριο Ελληνικής Ορθοπαιδικής Εταιρείας, Θεσσαλονίκη, Οκτώβριος 2002.
- [11] Χρηστάκης Δ., Κονταξάκης Κ., Στεργιόπουλος Κ., Δρετάκης Ε., Τριανταφύλλου Κ., Βαβουρανάκης Χ., «*Η εντροπία σαν μέτρο της ποιότητας της κίνησης και εφαρμογές στον τομέα του αθλητισμού*», 4^ο Ετήσιο Συνέδριο της Ελληνικής Εταιρείας Αθλητικής Επιστήμης (Ελ.Ε.Αθ.Ε.), 31 Οκτωβρίου-2, Νοεμβρίου 2003, Ξενοδοχείο Candia Maris, Ηράκλειο Κρήτης.
- [12] D.G. Christakis, C.G. Condaxakis, T.J. Chortatsos, «*Full span passive controlled wind turbine*», EWEC 2006 Conference & Exhibition, Athens from 27 February to 2 March, 2006.
- [13] Dimitris Christakis, Constantin Condaxakis, Ioannis Sarantidis, Nikos Papadakis, Georgios Kozyrakis, «*The influence of terrain's slope on wind – turbine's performance*», EWEC 2006 Conference & Exhibition, Athens from 27 February to 2 March, 2006.
- [14] Dr N. Papadakis, Prof. D. Christakis, Dr C. Condaxakis, «*Characterisation of damage and failure through an acoustic emissions technique based on the concept of Entropy*», 2nd IC-SCCE, Divani Caravel, 5-8 July 2006, Athens.
- [15] D. ΑΙ. Katsaprakakis, N. Papadakis, G. Kozirakis, Y. Minadakis, D. Christakis and K. Kondaxakis, «*Electricity supply on the island of Dia based on renewable energy sources (R.E.S.)*», Appl Energy **86** (4) (2009), pp. 516–527.
- [16] C. Condaxakis, I. Kougioumtzoglou, N. Papadakis «*An experimental evaluation of a flexible wind turbine rotor*», DEMSEE 2016 conference, Heraklion, Greece, 2016, Trivent Publishing, The Authors, Engineering and Industry Series, ISBN 978-615-80340-7-4, Volume 3 (December 2016), Pages 1-389, Chapter III.: Renewable Energy Sources, Distributed Generation, Smart Grids.
- [17] Dimitris ΑΙ. Katsaprakakis, Klairi Georgila, Georgios Zidianakis, Apostolos Michopoulos, Nikolaos Psarras, Dimitris G. Christakis, Constantinos Condaxakis, Spyros Kanouras, «*Energy upgrading of buildings. A holistic approach for the Natural, History Museum of Crete, Greece*», Renewable Energy 114 (2017) 1306-1332.
- [18] DA Katsaprakakis, I Dakanali, C Condaxakis, DG Christakis, «*Comparing electricity storage technologies for small insular grids*», Applied Energy 251 (2019), 113332
- [19] Dimitris ΑΙ Katsaprakakis, Apostolos Michopoulos, Vasiliki Skoulou, Eirini Dakanali, Aggeliki Maragkaki, Stavroula Pappa, Ioannis Antonakakis, Dimitris Christakis, Constantinos Condaxakis, «*A Multidisciplinary Approach for an Effective and Rational Energy Transition in Crete Island, Greece*», Energies, τόμος 15, τεύχος 9, 2022.
- [20] Georgios V. Kozyrakis, Constantinos Condaxakis, «*Wind resource assessment over the Aegean Sea using dynamical downscaling techniques*

and ground meteorological station data», Oral presentation, DEMSEE 2022, Heraklion, Crete.

[21] Nikolaos Papadakis, Constantinos Contaxakis, Nikolaos Torosian, « Filtering approaches for wind tunnel power measurements in an inverter induced noise environment», Oral presentation, DEMSEE 2022, Heraklion, Crete.

B. CURRENT RESEARCH TOPICS:

My main research interest is in the regions

- the design and Technology of Wind and RES systems.

For about twenty years now I have been involved in the study and design of innovative blades for wind turbines and the design of small Wind Turbines. The team of the Wind Energy Laboratory that I am part of has developed a series of wind turbines and has installed some of them in various locations in Crete and Attica. These wind turbines are designed with the goal of maximum reliability and minimum cost. Well-tested and reliable innovations have been implemented in their design.

- the development of software for the aeroelastic design of Wind Engine blades.

For the development of innovative fins I have developed special software that includes the aerodynamic and structural design as well as the connection of the two parts of measurement technology.

Within the framework of the Wind Energy Laboratory, I am the Quality Assurance Manager and the Quality Assurance Manager, in accordance with the laboratory's accreditation procedures according to ISO 17025, and I am particularly involved in the development and construction of experimental devices for all research fields of the laboratory.

My involvement with the above topics is done within the framework of research programs carried out at the Wind Energy and Energy Systems Synthesis Laboratory and the TEI of Crete.

C. INTERNATIONAL RECOGNITION OF A RESEARCH PROJECT

Google Scholar h-index: 4

Ετεροαναφορές Google Scholar: 128

Scopus h-index: 3

Ετεροαναφορές Scopus: 42

ΠΑΡΑΡΤΗΜΑ

Στα πλαίσια των Ερευνητικών προγραμμάτων και μελετών του Εργαστηρίου Αιολικής Ενέργειας, συμμετείχα στην εκπόνηση των παρακάτω μελετών:

ΕΤΑΙΡΕΙΑ	ΤΙΤΛΟΣ	ΗΜΕΡ/ΝΙΑ ΥΠΟΓΡΑΦΗΣ ΣΥΜΒΑΣΗΣ	ΗΜΕΡ/ΝΙΑ ΛΗΞΗΣ ΣΥΜΒΑΣΗΣ
ΔΟΜΙΚΗ ΕΝΕΡΓΕΙΑΚΗ Α.Ε.	Μελέτη Αιολικού Πάρκου στη θέση Κουλούκωνας του Νομού Ρεθύμνης για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας .	21/04/2003	12/07/2004
ΗΛΕΚΤΩΡ Α.Ε.	Μελέτες για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας από Αιολικό Πάρκο στη θέση Πηγαϊδάκια και Οξύ Κεφάλι του Νομού Ηρακλείου.	22/04/2003	09/05/2004
ΕΝΩΣΗ ΕΝΕΡΓΕΙΑΚΗ	Μελέτη Αιολικού Πάρκου στη θέση Ασιδέρωτο του Νομού Ρεθύμνης για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας	24/04/2003	15/09/2004
ΔΗΜΟΤΙΚΗ ΕΠΙΧΕΙΡΗΣΗ ΑΡΚΑΛΟΧΩΡΙΟΥ	Μελέτη Αιολικού Πάρκου στη θέση Στείρωνας του Νομού Ηρακλείου για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας	02/05/2003	02/05/2004
ΤΑΛΩΣ Α.Ε.	Μελέτη Αιολικό Πάρκο στη θέση Κάτω Αγόρι, Αση Γωνιά του Νομού Χανίων για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας	02/05/2003	09/05/2004
ΛΑΤΟΜΙΚΗ Α.Ε.	Μελέτη για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας από Αιολικό Πάρκο στη θέση Κουρούπα, Δημού Φοίνικας του Νομού Ρεθύμνης.	05/05/2003	31/12/2004
ΚΟΙΝΟΠΡΑΞΙΑ ΒΙΜΕΚΑ ΕΜΜ. ΧΑΤΖΙΜΑΡΚΑΚΗΣ&ΣΙΑΟΕ-ΑΝΔΡ.ΑΝΑΤΟΛΙΩΤΑΚΗΣ	Μελέτη για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας από Αιολικό Πάρκο στη θέση Τσικουριά του Νομού Ηρακλείου.	10/05/2003	10/05/2004
ΚΟΙΝΟΠΡΑΞΙΑ ΜΥΤΙΛΗΝΑΙΟΣ-ΕΝΟΡΑ ΑΙΟΛΙΚΗ ΜΟΧΟΥ ΗΡΑΚΛΕΙΟΥ	Μελέτη αιολικού δυναμικού για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας από Αιολικό Πάρκο στη θέση Μοχός του Νομού Ηρακλείου.	14/05/2003	22/07/2004
ΔΟΜΙΚΗ ΚΡΗΤΗΣ Α.Ε.	Τοποθέτηση ανεμομέτρου και συλλογή μετρήσεων για την διαμόρφωση του αιολικού χάρτη στην περιοχή Βοσκερό Κρουσάνα νομού Ηρακλείου	22/05/2003	22/05/2004
ΗΛΙΑΚΟ ΡΕΥΜΑ-ΑΓΡΙΟΓΙΑΝΝΟΣ ΜΙΧΑΛΗΣ	Ανάπτυξη Αιολικού Χάρτη , χωροθέτηση των οικονομικά βέλτιστων Ανεμογεννητριών και έκθεση βιωσιμότητας.	03/07/2003	26/10/2004
ΗΛΙΑΚΟ ΡΕΥΜΑ-ΑΓΡΙΟΓΙΑΝΝΟΣ ΜΙΧΑΛΗΣ	Τοποθέτηση ανεμομέτρου και συλλογή μετρήσεων για την διαμόρφωση του αιολικού χάρτη στην περιοχή Μεσσαράς	15/07/2003	30/07/2004
ΔΗΜΟΤΙΚΗ ΕΠΙΧΕΙΡΗΣΗ ΠΟΛΙΤΙΣΤΙΚΗΣ & ΤΟΥΡΙΣΤΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΒΙΑΝΝΟΥ (Δ.Ε.Π.Τ.ΑΒ)	Μελέτη για χορήγηση Άδειας Παραγωγής Ηλεκτρικής ενέργειας από Αιολικό Πάρκο στη θέση Τουρλού του Νομού Ηρακλείου.	11/05/2003	11/05/2004
ΤΑΛΩΣ Α.Ε.	Εγκατάσταση ανεμογράφου και συλλογή επεξεργασία μετρήσεων ανέμου στην περιοχή Ομανιτέ Χανίων	19/12/2003	05/02/2005