

## PERSONAL INFORMATION

**CONSTANTINOS CONDAXAKIS**

 Hellenic Mediterranean University, School of Engineering, Mechanical Engineering Department, Energy Systems Synthesis Laboratory, Estavromenos, 71004 Heraklion, Greece

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Sex Male | Date of birth 18-07-1962 | Nationality Hellenic

## PROPOSED POSITION

## WORK EXPERIENCE

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| 2019 – today | <b>“Energy Systems” Master Director</b><br>Hellenic Mediterranean University, School of Engineering, Electrical & Computer Engineering Department.<br>Teaching and supervision of more than 10 students for their diploma thesis.<br>Full responsibility (lectures, laboratory exercises) for courses of Wind Energy Systems.  |
| 2019 – today | <b>Assistant Professor.</b><br>Hellenic Mediterranean University, School of Engineering, Mechanical Engineering Department.<br>Teaching and supervision of more than 15 students for their diploma thesis.<br>Full responsibility (lectures, laboratory exercises) for courses as Wind Energy Systems, Mechanical Drawing<br><a href="#">Business or sector University.</a>  |
| 2008 – 2018  | <b>Assistant Professor.</b><br>TEI of Crete, Mechanical Engineering Department.<br>Teaching and supervision of more than 20 students for their diploma thesis.<br>Full responsibility (lectures, laboratory exercises) for courses as Wind Energy Systems, Mechanical Drawing, Mechanical Design and Maintenance of Industrial installations.<br><a href="#">Business or sector University.</a>                                |
| 2005- today  | <b>Responsible for Wind Energy Lab Quality System (ISO17025).</b><br>Wind Energy Laboratory, TEI of Crete.<br>Accredited measurements for small wind turbines performance and wind speed and direction .<br><a href="#">Business or sector University.</a>   |
| 2004-2007    | <b>Lab teaching associate at TEI of Crete.</b><br>TEI of Crete, Mechanical Engineering Department.<br>Laboratory teaching (Mechanical Drawing, Mechanical Design, Wind Energy Systems).<br><a href="#">Business or sector University.</a>  |
| 2005-2007    | <b>Researcher</b><br>Wind Energy Laboratory, ELKE-TEI of Crete.<br>Greek Ministry of Development, GSRT Programme 04 AKMON 63 (part of the 3 <sup>rd</sup> European Community Support Framework 2000-2006, OPERATIONAL PROGRAMME "COMPETITIVENESS", measure 4.2.2.), “DAMAGE DIAGNOSTICS & MEASUREMENT OF QUALITY”, Development of a new method and instruments”.<br><a href="#">Business or sector Wind Energy Laboratory.</a> |
| 2005-2006    | <b>Researcher</b><br>Wind Energy Laboratory, ELKE-TEI of Crete.<br>Greek Ministry of Education program ARCHIMEDES II: “Entropic kinesimeter development”.<br><a href="#">Business or sector Wind Energy Laboratory.</a>  |
| 2004-2006    | <b>Researcher</b><br>Wind Energy Laboratory, ELKE-TEI of Crete.<br>Greek Ministry of Education program ARCHIMEDES I: “Power quality of complex energy systems”.<br><a href="#">Business or sector Wind Energy Laboratory.</a>  |

- 2003-2005 **Mechanical Engineer (Feasibility studies)**  
Wind Energy Laboratory, ELKE-TEI of Crete.  
Wind Farm feasibility studies for a more than 10 private companies and investors.  
**Business or sector** Wind Energy Laboratory.
- 2001-2002 **Mechanical Engineer (LEADER II EU program)**  
Wind Energy Laboratory, ELKE-TEI of Crete.  
Development of three small wind turbine prototypes.  
**Business or sector** Wind Energy Laboratory.
- 2000 **Researcher**  
Wind Energy Laboratory, ELKE-TEI of Crete.  
ALTENER (EU funding), “Feasibility study for RES development in the Lasithi prefecture”.  
**Business or sector** Wind Energy Laboratory.
- 1999 **Mechanical Engineer (Feasibility study)**  
Wind Energy Laboratory, ELKE-TEI of Crete.  
550 kW Wind turbine tower study and design.  
**Business or sector** Wind Energy Laboratory.

**EDUCATION AND TRAINING**

- 1996-2000 **PhD Thesis**  
Université de la Rochelle, France  
« Passive control of wind turbine blades and simulation of their behavior ».
- 1992-1993 **Certificate**  
École Nationale d’Ingénieurs de Tarbes  
Specialisation in CAD/CAE/CAM, Thesis : « Crack propagation model using FEM ».
- 1991-1992 **Maîtrise de Technologies Mécaniques**  
Université Paul Sabatier de Toulouse  
Mechanical Engineering
- 1989-1991 **Licence de Technologies Mécaniques**  
Université Paul Sabatier de Toulouse  
Mechanical Engineering
- 1980-1984 **Degree**  
TEI of Crete  
Mechanical Engineering

**PERSONAL SKILLS**

Mother tongue(s) Greek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B2
French	C2	C2	C2	C2	C2

Communication skills  
Confidence  
Consistency  
Empathy

Organisational / managerial skills  
Achieving Goals  
Analytical Ability  
Leadership

Job-related skills	Creativity Mechanical Skills Teamwork				
Digital competence	Information processing Independent user	Communication Independent user	Content creation Independent user	Safety Independent user	Problem solving Independent user
Other computer skills	MS Windows , MS Office, Autodesk AutoCAD, RISOE Wasp 9.1, Golden Software Surfer 8, Dassault Systems Solidworks 2010, CRES WindRose, ANSYS, CFD programs.				
Driving licence	category B				

## ADDITIONAL INFORMATION

## Publications

- [1] Δ. Αλ. Κατσαπρακάκης, Γ.Δ. Χρηστάκης, Κ. Γ. Κονταξάκης, «Εισαγωγή Συστήματος Αντλιοσταμείωσης 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 Α/Γ 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. Σερπετιδάκης, «*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. Δημοσικάλης, Β. Φασουλάς, Ι. Μηνιάδης, 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<sup>ο</sup> 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. Al. 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 Al. 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 Al. 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, Volume 15, (2022), Article number 3010.
- [20] Nikolaos C. Papadakis, Constantinos Condaxakis, Nikolaos Torosian, «*Filtering considerations for wind tunnel power measurements in an inverter induced noise environment*», 14th DEMSEE Congress, (2022), Heraklion, Greece.
- [22] Kozyrakis Georgios, Condaxakis Constantinos, «*Wind Resource Potential Assessment over complex terrain using ground meteorological station data and numerical modeling techniques: A test case for the Island of Crete*», 14th DEMSEE Congress, (2022), Heraklion, Greece.
- [23] Georgios V. Kozyrakis, Constantinos Condaxakis, Antonios Parasyris, Nikolaos A. Kampanis, «*Wind Resource Assessment over the Hellenic Seas Using Dynamical Downscaling Techniques and Meteorological Station Observations*», Energies, Volume 16, (2023), Article number 5965.
- [24] Constantinos Condaxakis, Georgios V. Kozyrakis, «*Investigating the influence of complex terrain on low altitude wind distribution by ground meteorological station data correlation*», 15th DEMSEE Congress, (2023), Heraklion, Greece.
- [25] Alexandra C. Barmpatza, Constantinos Condaxakis, Dimitris Christakis, «*The Stator Current Spectrum as Fault Identification Mean for Combined Faults in an AFPM Synchronous Generator*», 14th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED\_2023), Chania, Greece, 2023.
- [26] Alexandra C. Barmpatza, Remi Peltier, Constantinos Condaxakis, Dimitris Christakis, «*The Financial Aspects behind Designing a Wind Turbine Generator*», Wind, 2024, 4(1), 25-43.
- [27] Constantinos Condaxakis, Georgios V. Kozyrakis, «*Model Validation for Long-term Wind Resource Assessment over the Hellenic Region Using Dynamical Downscaling Techniques and Meteorological Station Data*», 16th DEMSEE Congress, (2024), Heraklion, Greece.
- [28] Nikolaos Papadakis, Constantinos Condaxakis, «*An Experimental Performance Assessment of a Passively Controlled Wind Turbine Blade Concept: Part A—Isotropic Materials*», Energies 2024, Volume 17, Issue 12, 3049. <https://doi.org/10.3390/en17123049> .
- [29] Nikolaos Papadakis, Constantinos Condaxakis, «*An Experimental Performance Assessment of a Passively Controlled Wind Turbine Blade Concept: Part B—Material Oriented with Glass-Fiber-Reinforced Polymer*», Energies 2024, Volume 17, Issue 13, 3286. <https://doi.org/10.3390/en17133286>.
- [30] Dimitris Katsaprakakis; Nikolaos Ch. Papadakis; Nikos Savvakis; Andreas Vavvos; Eirini Dakanali; Sofia Yfanti; Constantinos Condaxakis, «*The Wind Parks Distorted Development in Greek Islands—Lessons Learned*

and Proposals Toward Rational Planning», *Energies* 2025, 18(13), 3311; <https://doi.org/10.3390/en18133311>

[31] Yfanti Sofia; Dimitris Katsaprakakis; Nikos Sakkas; Constantinos Condaxakis; Emmanuel Karapidakis; Stelios Syntichakis; George M. Stavrakakis, «*The Role of Energy Communities in the Achievement of a Region's Energy Goals: The Case of a Southeast Mediterranean Region*», *Energies* 2025, 18(6), 1327; <https://doi.org/10.3390/en18061327>.

[32] Constantinos Condaxakis; Georgios V. Kozyrakas, «*Application of Measure–Correlate–Predict (MCP) Methodology for Long-Term Evaluation of Wind Potential and Energy Production on a Terrestrial Wind Farm Siting Position in the Hellenic Region*», *Energies* 2026, 19, 103, <https://doi.org/10.3390/en19010103>

[33] Constantinos Condaxakis, Ioannis Ntintakis, Georgios V. Kozyrakas, Christos Chrysoulakis, Georgios Chatzakis, Eirini Dakanali, Nikolaos Papadakis and Dimitris Katsaprakakis., «*The Evolution of Windmill Design: From Lasithi Plateau Pumping Windmills to Electricity Production*», *Energies* 2026, 19, 829, <https://doi.org/10.3390/en19030829>

[34] Nikolaos E. Kallitsounakis, Dimitris Al. Katsaprakakis, Constantinos Condaxakis, Nikos Papadakis., «*Technical and economic parameters regarding the operation of wind parks and pumped hydro storage systems in autonomous and in interconnected insular electrical systems*», *Journal of Energy Storage* 153 (2026) 120999, <https://doi.org/10.1016/j.est.2026.120999>

### Citations

h-index Google Scholar: 6, Scopus: 6

Ερευναφορές Google Scholar: 266, Scopus: 186

<https://orcid.org/0009-0001-0929-9075>

### Projects

#### CRETE VALLEY,

Project 101136139 — European Climate, Infrastructure and Environment Executive Agency (CINEA), under the powers delegated by the European Commission.

Deputy Scientific Project Manager

CRETE VALLEY aims to create a Renewable Energy Valley 'Living Lab' (REV-Lab) in Crete. It is envisioned as a decentralised renewable energy system that combines leading-edge ICT technologies, interoperable and open digital solutions (including data sovereignty), social innovation processes, and sound business models that are easy to adopt. CRETE VALLEY will demonstrate a digitalised, distributed, renewable, low carbon landscape that is affordable for all and fully covers the local energy needs on an annual basis, utilizing multiple renewable energy carriers and leveraging energy storage technologies.

#### 04 AKMON 63

Greece, “DAMAGE DIAGNOSTICS & MEASUREMENT OF QUALITY”, Development of a new method and instruments”, researcher.

Greek Ministry of Development, GSRT Programme, part of the 3<sup>rd</sup> European Community Support Framework 2000-2006, OPERATIONAL PROGRAMME "COMPETITIVENESS", measure 4.2.2.

Greek Ministry of Development, GSRT Programme, 2005-2007.

#### ARCHIMEDES II

Greece, “Power quality of complex energy systems”, researcher.

Greek Ministry of Education, 2004-2006.

#### ARCHIMEDES I

Greece, “Entropic kinesiometer development”, researcher.

Greek Ministry of Education, 2005-2006.

#### LEADER II

Greece, “Development of three small wind turbine prototypes”, researcher.

EU funding, 2001-2002.

#### ALTENER

Greece, “Feasibility study for RES development in the Lasithi Prefecture”, researcher.  
EU funding, 2000.

References

- Prof. Katsarakis Nicolaos, Rector at the Hellenic Mediterranean University, [katsan@hmu.gr](mailto:katsan@hmu.gr)
- Prof. Kavoyssanos Emmanuel, Head of the HMU Mechanical Engineering Department
- Prof. Katsaprakakis Dimitrios, Director of the Energy Systems Synthesis Laboratory, [dkatsap@hmu.gr](mailto:dkatsap@hmu.gr)

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Date 02/03/2026

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Signature