

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ ΚΑΘΗΓΗΤΗ ΓΕΩΡΓΙΟΥ ΣΤΑΥΡΑΚΑΚΗ

ΕΠΩΝΥΜΟ: ΣΤΑΥΡΑΚΑΚΗΣ
ΟΝΟΜΑ : ΓΕΩΡΓΙΟΣ
ΠΑΤΡΩΝΥΜΟ: ΣΠΥΡΙΔΩΝ
ΜΗΤΡΩΝΥΜΟ: ΜΑΡΙΑ
ΥΠΗΚΟΟΤΗΤΑ : ΕΛΛΗΝΙΚΗ
ΕΠΑΓΓΕΛΜΑ : Καθηγητής
Τομέας Ηλεκτρονικής και Αρχιτεκτονικής Υπολογιστών
Εργαστήριο Ηλεκτρικών Κυκλωμάτων και Ανανεώσιμων Πηγών Ενέργειας
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ΧΡΟΝΟΛΟΓΙΚΟΣ ΠΙΝΑΚΑΣ ΕΠΙΣΤΗΜΟΝΙΚΗΣ ΚΑΙ ΕΠΑΓΓΕΛΜΑΤΙΚΗΣ ΣΤΑΔΙΟΔΡΟΜΙΑΣ

1975 - 1980 : Πενταετής κανονική φοίτηση στην Ανώτατη Σχολή Ηλεκτρολόγων Μηχανικών του Εθνικού Μετσοβίου Πολυτεχνείου (κατεύθυνση Ενεργειακού Ηλεκτρολόγου Μηχανικού).

Ιούλιος 1980 : Δίπλωμα Ηλεκτρολόγου Μηχανικού του Ε.Μ.Π. (Λίαν Καλώς).

Σεπτέμβριος 1980 : Έναρξη μεταπτυχιακών σπουδών στην επιστημονική περιοχή της Τεχνολογίας Συστημάτων Αυτομάτου Ελέγχου στην Ανώτατη Σχολή Institut National des Sciences Appliquées (INSA), Τουλούζη, Γαλλία.

Ιούλιος 1981 : Δίπλωμα Εμπεριστατωμένων Σπουδών (Diplôme d'Études Approfondies - DEA) του INSA της Τουλούζης, Γαλλία, στην περιοχή της Τεχνολογίας Συστημάτων Αυτομάτου Ελέγχου (Λίαν Καλώς).

Δεκέμβριος 1980 - Υπότροφος της Γαλλικής Κυβέρνησης για την προετοιμασία Διδακτορικής

- Ιανουάριος 1984: Διατριβής στο Laboratoire d' Automatique et d' Analyse des Systemes (LAAS) του Centre National de la Recherche Scientifique (CNRS), Τουλούζης, Γαλλία.
- Ιανουάριος 1984 : Απονομή Διδακτορικού Διπλώματος στην επιστημονική περιοχή της Τεχνολογίας Συστημάτων Αυτομάτου Ελέγχου από το Πανεπιστήμιο "PAUL SABATIER - Toulouse III", Τουλούζη, Γαλλία. **Τίτλος του Διδακτορικού Διπλώματος: "Modelisation et commande du fonctionnement thermique d' un capteur solaire de type THEK-THEMIS" (Μοντελοποίηση και αυτόματος έλεγχος της θερμικής λειτουργίας ενός συγκεντρωτικού ηλιακού συλλέκτη τύπου THEK-THEMIS).**
- Δεκέμβριος 1983 - Μάρτιος 1984: Ερευνητής στο "Laboratoire des Signaux et Systemes" του CNRS, Νίκαια, Γαλλία, σε ερευνητικό πρόγραμμα σχεδιασμού, αξιολόγησης και υλοποίησης μέσω μικροϋπολογιστή αλγορίθμων τηλεπαρακολούθησης.
- Απρίλιος 1984 - Απρίλιος 1985 : Στρατιωτική θητεία στο Κέντρο Ερευνών Τεχνολογίας Αεροπορίας (ΚΕΤΑ).
- Απρίλιος 1985 - Οκτώβριος 1985: Σύμβουλος του ΕΛΚΕΠΑ σε εκπαιδευτικό - ερευνητικό πρόγραμμα σχετικά με την ανάπτυξη και τις εφαρμογές των συγκεντρωτικών ηλιακών συστημάτων.
- Οκτώβριος 1985 - Ιούλιος 1988: Ερευνητής με σύμβαση έργου στον Τομέα Πληροφορικής του Ε.Μ.Π., Εργαστήριο Ευφυών Συστημάτων, Ρομποτικής και Ελέγχου.
Η ερευνητική εργασία αφορούσε τη μοντελοποίηση, εκτίμηση παραμέτρων, βέλτιστο έλεγχο και σχεδιασμό-παρακολούθηση τροχιάς σε πραγματικό χρόνο βιομηχανικών ρομπότ στο πλαίσιο ερευνητικού προγράμματος Esprit-I.
Εξωτερικός Επιστημονικός Συνεργάτης της εταιρείας Protechna Ltd, Αθήνα, κατά το ίδιο χρονικό διάστημα, σε θέματα μελέτης, σχεδιασμού, βελτιστοποίησης και προσομοίωσης ενεργητικών και παθητικών ηλιακών συστημάτων.
- Σεπτέμβριος 1986 - Ιούλιος 1988 : Επισκέπτης Επίκουρος Καθηγητής (βάσει του Π.Δ. 407/1980) στο Τμήμα Μηχανικών Παραγωγής και Διοίκησης του Πολυτεχνείου Κρήτης.
- Σεπτέμβριος 1988 - Σεπτέμβριος 1989: Επισκέπτης Ερευνητής στο Institute for Systems Engineering and Informatics (ISEI)/Components Diagnostics and Reliability Sector, Joint Research Centre (JRC) των Ευρωπαϊκών Κοινοτήτων στην Ispra (Varese), της Ιταλίας.
- Σεπτέμβριος 1989 - Νοέμβριος 1990: Επίκουρος Καθηγητής, Τομέας Συστημάτων Παραγωγής, Τμήμα Μηχανικών Παραγωγής και Διοίκησης του Πολυτεχνείου Κρήτης.

- Νοέμβριος 1990 - Αναπληρωτής Καθηγητής, Τομέας Τεχνολογίας Συστημάτων, Τμήμα Ηλεκτρονικής και Μηχανικών Υπολογιστών του Πολυτεχνείου Κρήτης.
Ιούνιος 1995:
- Φεβρουάριος 1993- Επισκέπτης Καθηγητής (με εκπαιδευτική άδεια από το Πολυτεχνείο Κρήτης)
Αύγουστος 1993: στο Centre d' Energetique της Ecole Nat. Sup. des Mines de Paris, Sofia-Antipolis, Γαλλία, για τον συντονισμό ερευνητικού προγράμματος JOULE σχετικού με τη βέλτιστη διαχείριση απομονωμένων συστημάτων ηλεκτρικής ενέργειας μεσαίου μεγέθους, με μεγάλης κλίμακας (> 20%) διείσδυση αιολικών μονάδων.
- Οκτώβριος 1995 – Καθηγητής, Τομέας Ηλεκτρονικής και Αρχιτεκτονικής Υπολογιστών, Τμήμα Ηλεκτρονικών Μηχανικών και Μηχανικών Υπολογιστών του Πολυτεχνείου Κρήτης.
σήμερα
- Φεβρουάριος 1999 - Επισκέπτης Καθηγητής (με εκπαιδευτική άδεια από το Πολυτεχνείο Κρήτης)
Ιούλιος 1999 στο Τμήμα Μηχανολογίας - Εργαστήριο Τεχνολογίας Μετρήσεων του Παν/μίου της Ancona - Ιταλία.
- Οκτώβριος 2000 - Αντιπρόεδρος του Διοικητικού Συμβουλίου του Κέντρου Ανανεώσιμων Πηγών
Απρίλιος 2002 Ενέργειας (ΚΑΠΕ).
- Σεπτέμβριος 2011 - Επισκέπτης Καθηγητής (με εκπαιδευτική άδεια από το Πολυτεχνείο Κρήτης)
Σεπτέμβριος 2012 στη Σχολή Ηλεκτρολόγων Μηχανικών του Πολυτεχνείου "Gheorghe Asachi" του Ιάσιου - Ρουμανία
- July 2017 : Ενός μηνός παραμονή & επιστημονική-ερευνητική συνεργασία στο Department of Civil & Environmental Engineering- WASEDA University, Tokyo, Japan.
- Ξένες Γλώσσες: Αγγλικά (άριστα)
Γαλλικά (άριστα)
Ιταλικά (πολύ καλά)
- Citations : περίπου 2300 (google scholar)

ΓΕΝΙΚΗ ΕΡΕΥΝΗΤΙΚΗ – ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ

Η γενική ερευνητική-επιστημονική περιοχή που ανήκει το επιστημονικό-ερευνητικό του έργο, είναι αυτή της ανάλυσης και σύνθεσης γραμμικών ή/και μη-γραμμικών δυναμικών συστημάτων συνεχούς ή διακριτού χρόνου, προσδιοριστικών, στοχαστικών ή ασαφών (fuzzy systems), νευρωνικών και νευρο-ασαφών.

Το εφαρμοσμένο ερευνητικό-επιστημονικό έργο του αφορά την υλοποίηση μεθοδολογιών και αλγορίθμων σε πραγματικό χρόνο μέσω της πληροφορικής, των υπολογιστών και μέσω της υλοποίησης ειδικών ηλεκτρονικών διατάξεων, με έμφαση στις περιοχές:

- α) ανάλυση, μοντελοποίηση, προσομοίωση και βέλτιστος έλεγχος - βέλτιστη ένταξη (διαχείριση) των Ανανεώσιμων Πηγών Ενέργειας, μεγιστοποίηση της διείσδυσης των ΑΠΕ σε απομονωμένα ηλεκτρικά συστήματα. Συστήματα και «έφυγες» τεχνολογίες εξοικονόμησης ενέργειας.
- β) τηλεμετρία και ανάλυση των δεδομένων - μοντελοποίηση - τεχνολογική πρόβλεψη μετεωρολογικών , κλιματολογικών και εν γένει περιβαλλοντικών παραμέτρων/μεταβλητών με χρήση στατιστικών μεθόδων, ανάλυσης χρονοσειρών , συστημάτων υποστήριξης απόφασης , στοχαστικών διαδικασιών και συστημάτων , νευρωνικών δικτύων (neural networks) ή/και ασαφούς λογικής (fuzzy logic).
- γ) ανάλυση, μοντελοποίηση, προσομοίωση , πρόβλεψη φορτίου και βέλτιστη ένταξη μονάδων ηλεκτροπαραγωγής , εφαρμογές συστημάτων αποφάσεων και βέλτιστος έλεγχος των σύγχρονων Συστημάτων Ηλεκτρικής Ενέργειας/Ισχύος και των Συστημάτων Παραγωγής , εν γένει.
- δ) ανάλυση της ασφάλειας και αξιοπιστίας και έγκαιρη διαγνωστική σφαλμάτων σε πραγματικό χρόνο των σύγχρονων τεχνολογικών συστημάτων ,των κατασκευών , Συστημάτων Ηλεκτρικής Ενέργειας , Συστημάτων ΑΠΕ.
- ε) Έλεγχος συνθηκών εσωτερικής άνεσης με ταυτόχρονη εξοικονόμηση ενέργειας σε υφιστάμενα και νέα κτίρια. Τεχνολογίες «έξυπνων» κτιρίων. Ενεργειακή Επιθεώρηση , ψυχρά κελύφη , διαχείριση και εξοικονόμηση ενεργείας.
- στ) Μοντελοποίηση , εκτίμηση παραμέτρων από μετρήσεις (ταυτοποίηση) τεχνολογικών συστημάτων και φυσικών διεργασιών , συστήματα υποστήριξης απόφασης .
Εφαρμογές στα συστήματα παραγωγής, στα συστήματα ηλεκτρικής ενέργειας και στις ΑΠΕ, στη διαχείριση περιβαλλοντικών συστημάτων, στη βιοϊατρική τεχνολογία, στα ενεργειακά συστήματα, στη διαχείριση και εξοικονόμηση ενέργειας στα κτίρια-στη βιομηχανία-στις μεταφορές κλπ.

Διοικητική Εμπειρία

- Διευθυντής του Τομέα Τεχνολογίας Συστημάτων του Τμήματος Ηλεκτρονικών Μηχανικών και Μηχανικών Υπολογιστών του Πολυτεχνείου Κρήτης από τον Οκτώβριο 1991 έως τον Ιούλιο 2003.
- Αντιπρόεδρος του Δ.Σ. του Κέντρου Ανανεώσιμων Πηγών Ενέργειας (ΚΑΠΕ) από τον Οκτώβριο 2000 μέχρι τον Απρίλιο του 2002.
- Συντονισμός του ερευνητικού προγράμματος JOU2 - CT92 - OO53 (JOULE) που αποσκοπεί στη μελέτη, σχεδιασμό και υλοποίηση πρωτότυπου συστήματος αυτόματης συλλογής δεδομένων και διαχείρισης (SCADA) απομονωμένων συστημάτων ηλεκτρικής ενέργειας μεσαίου μεγέθους, με μεγάλης κλίμακας διείσδυση αιολικών μονάδων στη νήσο Λήμνο (case study) [βλ. πίνακα συμμετοχής σε ερευνητικά προγράμματα].
- Κύριος εταίρος(συνέγραψε την πρόταση και υπέβαλλε το έργο) – Συντονιστής της υλοποίησης (Prime Contractor – Coordinator) των Ερευνητικών Προγραμμάτων με αριθ. 18, 22, 23a,23b,25,26,27,28,32,33,34

(που σχετίζονται άμεσα με την εξοικονόμηση ενέργειας και τις ανανεώσιμες πηγές ενέργειας , βλ.πίνακα κατωτέρω) .

Ο συνολικός προϋπολογισμός των ανωτέρω έργων , που έχει διαχειριστεί σαν Συντονιστής τους, ανέρχεται σε περίπου 6.000.000 ευρώ.

--- *Είναι προσκεκλημένος εξωτερικός κριτής στα ακόλουθα διεθνή επιστημονικά περιοδικά υψηλού κύρους :*

- Member of the Editorial Board and permanent reviewer of the peer review international journal “ENERGIES” i.e.
<http://www.mdpi.com/journal/energies/editors#editorialboard>
- Society Technical Committee duties : once in the International Committee of Electrical Machines- ICEM
- Journal of Intelligent and Robotic Systems.
- IEEE Transactions on Energy Conversion.
- Electric Power Systems Research
- International Journal of Distributed Sensor Networks
- Renewable Energy journal
- Reviewer on call basis IEEE Transactions on Automation Science and Engineering
- Neural Computing and Applications
- Applied Sciences

--- *Συμμετοχή σε Επιστημονικές Επιτροπές:*

“Member of the Permanent Committee of the Prefecture of Crete for the Energy Planning of Crete Island”

ΠΙΝΑΚΑΣ ΚΥΡΙΩΝ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΔΗΜΟΣΙΕΥΣΕΩΝ

ΔΙΕΘΝΗ ΒΙΒΛΙΑ

1. A.D. POULIEZOS, G.S. STAVRAKAKIS
“Real Time Fault Monitoring of Industrial Processes”.
KLUWER ACADEMIC PUBLISHERS
DORDRECHT / BOSTON / LONDON, April 1994 (ISBN 0-7923-2737-3).

2. E. NOGARET, G. STAVRAKAKIS, G. KARINIOTAKIS, B. PAPADIAS, M. PAPADOPOULOS, N. HATZIARGYRIOU, G. CONTAXIS, J. GATOPOULOS, J. HALLIDAY, J. A. PECAS LOPES et al.
“Development and implementation of an advanced control system for the optimal operation and management of medium-sized power systems with a large penetration from renewable energy sources”.
 Official Publication of the European Communities, Report EUR 16686 EN, Brussels, 1996 (ISBN 92-827-5007-8).
3. G.S. STAVRAKAKIS, N. HATZIARGYRIOU, J.A. PECAS LOPES et al (Editors).
“Dissemination of the advanced control technologies and SCADA systems for the isolated power networks with increased use of Renewable Energies”.
 Book of Proceedings, Ajaccio – Corsica, March 2000 (Produced as a book-handbook by the Centre of Renewable Energy Sources – CRES, www.cres.gr).
4. G.S. STAVRAKAKIS
“Electrical Parts of Wind Turbines”.
 In: Sayigh A, (editor)
 Comprehensive Renewable Energy, Vol 2, pp. 269–328. Oxford: Elsevier, May 2012.
5. a. A. APOSTOLOU, T. NIKOLAOU, D. KOLOKOTSA, C. MUNTEANU, G. STAVRAKAKIS
“Integrated Intelligent Systems for the Efficient Management of Indoor Environment and Energy in Buildings”.
 Editura POLITEHNIUM, Technical University “ Gh. Asachi” Iasi - Romania,
 June 2013, ISBN 978-973-621-400-4.
 b. The above book was revised, revised and accepted to be published by the international scientific editions SPRINGER-VERLAG GmbH as following:
 T.NIKOLAOU, D.KOLOKOTSA, G.STAVRAKAKIS, A.APOSTOLOU, C.MUNTEANU
“Managing Indoor Environments and Energy in Buildings with Integrated Intelligent Systems”.
 Green Energy and Technology, SPRINGER International Publishing, New York,
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ΑΡΘΡΑ ΣΕ ΔΙΕΘΝΗ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ

1. J. MIGNOT, G.S. STAVRAKAKIS
“On modelling and identifying the thermal behaviour of a solar paraboloidal collector”
 International Journal of Energy Systems, Vol. 4, No 1, pp. 16-19, 1984.
2. G. STAVRAKAKIS, J. AGUILAR-MARTIN

- "Processus stochastiques quadratiques Markoviens au sens projectif; Application a l'indentification d' un modele bilineaire"
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3. G.S. STAVRAKAKIS, J. AGUILAR-MARTIN
"A bilinear model for the thermal behaviour of a point focusing Solar Collector"
Int. Journal of Energy Research, Vol. 10, pp. 291-300, 1986.
 4. G. STAVRAKAKIS, G. BITSORIS, M. SANTAMOURIS
"A nonlinear dynamic thermal regulator for a paraboloidal solar collector"
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 5. S.G. TZAFESTAS, G.S. STAVRAKAKIS
"Model Reference Adaptive Control of Industrial Robots with Actuator Dynamics"
First Presented in: IFAC/IFIP/IMACS Internat. Symposium on Robot Theory, December 3-5, 1986, Vienna, Austria
J.Info. & Optimiz. Sci., Vol. 10, No 3, pp. 423-444, 1989.
 6. A. POULIEZOS, G.S. STAVRAKAKIS
"Fast fault diagnosis for industrial processes applied to the reliable operation of Robotic systems"
Int. Journal of Systems Science, Vol. 20, No 7, pp. 1233-1259, 1989.
 7. S. TZAFESTAS, G.S. STAVRAKAKIS, A. ZAGORIANOS
"Robot Model Reference Adaptive Control through lower/upper part Dynamic Decoupling"
Journal of Intelligent and Robotic Systems, Vol. 1, pp. 163-184, 1988.
 8. M. SANTAMOURIS, D. PAPAIOANNOU, T. ARGURIOU, G. STAVRAKAKIS
"Technical and Economical Comparison between solar water heaters using electro-deposited chrome selective coating and selective paints"
Energy Conversion and Management, Vol. 30, No 4, pp 421-431, 1990.
 9. G.S. STAVRAKAKIS, G. KAPSIOTIS, M. SANTAMOURIS
"Digital Parameter - Adaptive Control for a solar Concentrator"
Solar and Wind Technology, Vol. 7, No 2/3, pp. 97-105, 1990.
 10. G.S. STAVRAKAKIS, C. LEFAS, A. POULIEZOS
"Parallel processing computer implementation of a real time DC-motor drive fault detection algorithm"
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 11. S. TZAFESTAS, B. KALOBATSOS, G. STAVRAKAKIS, A. ZAGORIANOS

- "Some results on the autonomous trajectory generation and adaptive control of Industrial Robots"
Journal of the Franklin Institute, Vol. 329, No 1, pp. 1-14, Nov. 1992.
12. A. POULIEZOS, G.S. STAVRAKAKIS, C. LEFAS
"Fault detection using parameter estimation"
Quality and Reliability Engineering International, Vol. 5, pp. 283-290, 1989.
 13. G.S. STAVRAKAKIS, E. DIALYNAS
"Efficient computer-based scheme for improving the reliability performance of power substations"
Int. J. of Syst. Science, Vol. 22, No 9, pp. 1527-1539, 1991.
 14. G.S. STAVRAKAKIS, A. LUCIA, G. SOLOMOS
"A comparative study of the Probabilistic Fracture Mechanics and the Stochastic Markovian Process Approaches for Structural Reliability Assessment"
International Journal of Pressure Vessels and Piping, 41, pp. 25-41, 1990.
 15. K.C. KALAITZAKIS, G.S. STAVRAKAKIS
"A simulation model for the reliable integration of a 4.5 MW wind farm into the power grid of the Crete Island"
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 16. M. SANTAMOURIS, G.S. STAVRAKAKIS
"Predicting the atmospheric broadband transmission function due to Rayleigh scattering for solar radiation models"
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 17. G.S. STAVRAKAKIS
"Quality assurance of welds in ship structures"
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 18. D.E. MANOLAKIS, C.C. LEFAS, G.S. STAVRAKAKIS, C.M. REKKAS
"Computation of Aircraft Geometric Height Under Radar Surveillance"
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 19. P.V. MALATESTAS, M.P. PAPADOPOULOS, G. STAVRAKAKIS
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 20. G.S. STAVRAKAKIS, A. POULIEZOS
"Fatigue life prediction using a new moving window regression method"

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21. G.S. STAVRAKAKIS
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Quality and Reliability Engineering International, Vol. 8, pp. 341-347, 1992.
22. G.S. STAVRAKAKIS
"An efficient computer program for marine structures reliability and risk assessment"
The Naval Architect, pp. E342 - E346, July - August, 1993.
23. G.S. STAVRAKAKIS, G.N. KARINIOTAKIS
"A General Simulation Algorithm for the Accurate Assessment of Isolated Diesel-Wind Turbines Systems Interaction - Part I: A General Multimachine Power System Model"
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“FAULTMONITOR: A Computational tool for fast fault monitoring in critical dynamic industrial processes” (in Greek)
1st Panhellenic Conference “Health and safety in the process industries”, Dec. 9-11, 1992, Athens, Greece.
 11. G. KARINIOTAKIS, G. STAVRAKAKIS, E. NOGARET, M. BORDIER
“Advanced modelling and identification of autonomous wind-diesel power system. Application on the French island Desirade”
1993 European Community Wind Energy Conference, 8-12 March 1993, Lubek - Travemunde, Germany.
 12. A. POULIEZOS, G. STAVRAKAKIS, G. TSELENTIS
“Detection of multivariable system noise degradation”
IEEE Mediterranean Symposium on new Directions in Control Theory and applications, June 21-23, 1993, Chania, Crete, Greece.
 13. G. N. KARINIOTAKIS, E. B. KOSMATOPOULOS, M. A. CHRISTODOULOU, G. S. STAVRAKAKIS
“Load forecasting using dynamic high-order neural networks”
IEEE International Power Conf. “Athens Power Tech 93 - APT '93”, Sept. 5-8, 1993, Athens, Greece.
 14. G. KARINIOTAKIS, E. NOGARET, G. STAVRAKAKIS and J. BILLEREY
“Analysis and Evaluation of the Real Time Operation of a Wind-Diesel Power System with High Wind Power Penetration”
EWEC '94, Europ. Wind Energy Assoc. Conference, 10-14 October 1994, Thessaloniki, Greece.

15. E. NOGARET, G. STAVRAKAKIS, J. C. BONIN, G. KARINIOTAKIS, B. PAPADIAS, G. CONTAXIS, M. PAPADOPOULOS, N. HATZIARGYRIOY et al.
 "Development and Implementation of an advanced Control System for Medium Size Wind-Diesel Systems"
 EWEC '94, Europ. Wind Energy Assoc. Conference, 10-14 October 1994, Thessaloniki, Greece.

16. E. NOGARET, G. STAVRAKAKIS, J. C. BONIN, G. KARINIOTAKIS, M. PAPADOPOULOS
 N. HATZIARGYRIOU et al.
 "A new expert system based control tool for power systems with large integration of PVs & wind power plants"
 First World Conf. On Photovoltaic Energy Conversion, Dec. 5-9, 1994, Hilton Waikoloa Village, Hawaii, USA.

17. G.S. STAVRAKAKIS
 "On-line statistical process monitoring and feedback adjustment"
 First ECPD International Conference on Advanced Robotics and Intelligent Automation, 6-8 September 1995, Athens, Greece.

18. G. S. STAVRAKAKIS
 "Application of optimization methods to the modern production systems" (in Greek)
 3rd Logistics Management Conference, 7-8 Nov., 1995, Pantion University, Athens, Greece.

19. A. POULIEZOS, G. STAVRAKAKIS
 "FAULTLAB: A computer tool for the design and evaluation of industrial processes fault detection strategies" (in Greek)
 Technical Chamber of Greece Conference: New technologies in Automatic Control, 14-15 Dec., 1995, Athens, Greece (Intercontinental Hotel).

20. P. ZALIMIDIS, G. STAVRAKAKIS
 "Real-time quality control in production systems" (in Greek)
 National Conference on Technology and Automation, 9-10 May 1996, T.E.I. of Pireaus, Greece.

21. E. NOGARET, G. STAVRAKAKIS, G. KARINIOTAKIS, M. PAPADOPOULOS,
 N. HATZIARGYRIOU et al.
 "An advanced control system for wind diesel power systems"
 1996 European Union Wind Energy Conference, 20-24 May 1996, Goteborg, Sweden.

22. G. KARINIOTAKIS, E. NOGARET, G. STAVRAKAKIS
 "A Fuzzy Logic and a Neural Network based Wind Power Forecasting Model"
 1996 European Union Wind Energy Conference, 20-24 May 1996, Goteborg, Sweden.

23. E. NOGARET, G. STAVRAKAKIS, G. KARINIOTAKIS, M. PAPADOPOULOS,

- N. HATZIARGYRIOU et al.
“Development and Implementation of an Advanced Control System for Autonomous Power Systems including Renewable Power Sources”
UPEC 96, Sept. 18-20, 1996, Iraklio, Greece.
24. E. SERGAKI, G. STAVRAKAKIS
“Optimal Control of Robotic Manipulators with DC-Actuators Electromechanical Losses Minimization”
UPEC 96, Sept. 18-20, 1996, Iraklio, Greece.
25. G.S. STAVRAKAKIS, A. POULIEZOS, M. ZERVAKIS, E. ANAGNOSTAKIS, G. TSELENTIS
“Feature Extraction and Neural-Fuzzy Classification of Washing Machines Vibration Signals for On-line Quality Control Purposes”
EUFIT '97, 5th European Congress on Intelligent Techniques & Soft Computing, Sept. 8-11, 1997, Aachen, Germany.
26. G. KARINIOTAKIS, E. NOGARET, G. STAVRAKAKIS
“Advanced Short-Term Forecasting of Wind Power Production”
EWEC 97, European Wind Energy Conference & Exhibition, Oct. 5-9, 1997, Dublin, Ireland.
27. G. STAVRAKAKIS, A. POULIEZOS, G. TSELENTIS
“Fault Detection and Classification of Vibration Signals for Quality Control of Household Appliances during Production”
2nd Conference on Technology and Automation, Oct. 2-3, 1998, Thessaloniki, Greece.
28. D. KOLOKOTSA, K. KALAITZAKIS, G. STAVRAKAKIS et al.
“Advanced Decision Support techniques in combination with smart card and Local Operating Network technologies for intelligent energy management in buildings”
Energy Performance Indoor Climate Conference - EPIC 98, 19-22 November 1998, Lyon-France.
29. D. KOLOKOTSA, G. STAVRAKAKIS, K. KALAITZAKIS, D. TSIAMOS
“Fuzzy control for improved buildings energy management systems”
ESIT '99, 3-4 June 1999, Orthodox Academy of Crete, Chania, Greece.
30. D. KOLOKOTSA, G. STAVRAKAKIS, K. KALAITZAKIS, A. POULIEZOS, E. LOUKIS
“Optimization of a fuzzy controller using genetic algorithms for the indoor comfort control in buildings”
IFDICON 2001, 24-28 June 2001, Santorini, Greece.

31. D. Kolokotsa, K. Kalaitzakis, G. Stavrakakis, T. Tsoutsos,
“Applying Genetic Algorithms for the decision support of thermal, visual comfort, indoor air quality and energy efficiency in buildings”,
Proceedings of NTUA RENES Conference in Renewable energy sources –Priorities in the Liberalization of the Energy Market, Athens 19-21 March 2001.
32. M. PAPADAKI, T. TSOUTSOS, G. STAVRAKAKIS, M. ANTONIDAKIS
“Development of a Methodology for the Sustainable Management of an Energy System”
7th National Congress for the Renewable Energy Sources, 6-8 November 2002, Patras, Greece (in Greek).
33. D. KOLOKOTSA, G. S. STAVRAKAKIS
“Small Residential Wind Turbines in the Urban Environment”
Med Power 2002, 4-6 November 2002, Athens, Greece.
34. K. KALAITZAKIS, G. STAVRAKAKIS, D. KOLOKOTSA
“Advanced Artificial Neural Networks for Short-term Load Forecasting”
IASTED International Conference on Power and Energy Systems (EuroPES 2002), 25-28 June, 2002, in Crete, Greece.
35. D. KOLOKOTSA, K. KALAITZAKIS G. STAVRAKAKIS,
“Advanced Artificial Neural Networks for Short-term Load Forecasting”
International Conference on RES for island, tourism & water desalination, EREC03, Hersonissos, Crete, 26-28 May 2003.
36. D. KOLOKOTSA, Z. LIAO, K. KALAITZAKIS, G. STAVRAKAKIS, A. POULIEZOS, E. ANTONIDAKIS, T. TSOUTSOS, V. GEROS, M. SANTAMOURIS
“Smart energy management in the built environment”
Restoration and Protection of the Environment IV, Mykonos, July 18-23 2004.
37. E. TRIPOLITAKIS, D. KOLOKOTSA, K. KALAITZAKIS, G. STAVRAKAKIS
“Study and Implementation of a Fuzzy PD Thermal Comfort Controller for Embedded Fieldbus Systems Applications”
WSEAS Conference on Circuits and Systems, Rethymno Crete, October 24-26, 2004.
38. G. SUTHERLAND, D. KOLOKOTSA, G. STAVRAKAKIS, S. KARATASSOU, M. SANTAMOURIS
“Matrix Tool for Assessing the Performance of Intelligent Buildings”
Passive and Low Energy Cooling Palenc 2005, Santorini island, 19-21 May 2005.

39. . KOLOKOTSA, A. POULIEZOS, G. STAVRAKAKIS
 "Sensor fault detection in building energy management systems"
 2006 International Conference on Intelligent Systems and Knowledge Engineering (ISKE2006) ,
 April 6-7, 2006, Shanghai, China.

40. T. NIKOLAOU, D. STAVRAKAKIS, D. KOLOKOTSA, E. PAPANIKOLAOU
 "Assessment of shading contribution in the energy performance improvement of office buildings in
 Athens using TRNSYS simulation"
 EPIC 2006, November 20-22 2006, Lyon France.

41. D. KOLOKOTSA, G. STAVRAKAKIS, S. KAMINARIS, V. GEROS, M. SANTAMOURIS, M.
 KITRINAKIS, S. TRIPOLITSIOTIS, N. BAKONIKOLAS, G. KONSTANTOPOULOS
 "E-Building: A software platform for energy auditing and management of buildings"
 EPEQUB Conference, Milos Greece, 2006.

42. S.A. MARKOULAKIS, G.S. STAVRAKAKIS, T.G. NIKOLAOU
 "Short-term load forecasting based on the Kalman filter and the Neural-fuzzy Network (ANFIS)"
 Energy & Environmental Systems (EE06) WSEAS/IASME International Conference,
 Chalkida, Evia Island, Greece, May 8-13, 2006.

43. E.S. SERGAKI, G.S. STAVRAKAKIS
 "Optimal speed trajectory tracking of an AC motor drive system with simultaneous minimization of
 its electromagnetic losses and fuzzy logic efficiency optimization in steady and transient states"
 XVII International Conference on Electrical Machines-ICEM 2006, Chania, Crete island, Greece,
 September 2-5, 2006.

44. Z. GKETSIS, G. STAVRAKAKIS, M. ZERVAKIS
 "Detection of winding faults in windmill generators using the wavelet transform analysis method"
 XVII International Conference on Electrical Machines-ICEM 2006, Chania, Crete island, Greece,
 September 2-5, 2006.

45. Z. GKETSIS, M. ZERVAKIS, G. STAVRAKAKIS
 "Early Detection of winding faults in windmill generators using wavelet transform and ANN
 classification"
 Proceedings Artificial Neural Networks-ICANN2006, September 2006, Athens, Greece, Part II, pp.
 746.

46. E.S. SERGAKI, P.S. GEORGILAKIS, A.G. KLADAS, G.S. STAVRAKAKIS
 "Fuzzy Logic Based Online Electromagnetic Loss Minimization of Permanent Magnet
 Synchronous Motor Drives"
 XVIII International Conference on Electrical Machines ICEM 2008, 6-9 September 2008,
 Vilamoura, Portugal.

47. E.S. SERGAKI, G.S. STAVRAKAKIS

- “Online Search Based Fuzzy Optimum Efficiency Operation in Steady and Transient States for DC and AC Vector Controlled Motors”
XVIII International Conference on Electrical Machines ICEM 2008, 6-9 September 2008, Vilamoura, Portugal.
48. T. NIKOLAOU, D. KOLOKOTSA, G. STAVRAKAKIS, I. SKIAS
“Building energy performance evaluation according to Greek Law 3661/08. Comparison between measured and calculated approach”
3rd International Conference Enertech '08 to be held 20-23 November 2008 at MEC Paiania, Athens, Greece.
 49. T. NIKOLAOU, G. STAVRAKAKIS, I. SKIAS, E. SKARLOU
“Optimal sizing and design of pumped-storage wind-hydro power plants according to the constraints of Greek Law 3468/2006: case study for Crete”
3rd International Conference Enertech '08 to be held 20-23 November 2008 at MEC Paiania, Athens, Greece.
 50. E. KOUTROULIS, G. STAVRAKAKIS, D. KOLOKOTSA
“Optimal design and evaluation of a battery energy storage system for the exploitation of the rejected energy generated by wind farms in isolated electric grids”
3rd International Conference Enertech '08 to be held 20-23 November 2008 at MEC Paiania, Athens, Greece.
 51. E. THALASSINAKIS, E.N. DIALYNAS, G. STAVRAKAKIS
“Improving Emergency Reserve in Isolated Power Systems by Using the Short Time Overloading Capability of Generating Units”
MedPower 2008 -6th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion ,2 – 5 November 2008, Hotel Macedonia Palace, Thessaloniki, Greece.
 52. G.M. VISKADOUROUROS, G.S. STAVRAKAKIS
“A comparative study of Optimal Power Flow methods applied in large interconnected systems. Application in the interconnected system of Balkans”
DEMSEE 2009, 4th International Conference on Deregulated Electricity Market Issues in South-Eastern Europe, September 17-18, 2009, Mihailo Pupin Institute, Belgrade, Serbia.
 53. G. STAVRAKAKIS, K. GOBAKIS
“Real-time Forest Fire Detection with Wireless Sensor Network in Samaria Gorge-Crete-Greece”
XIII World Forest Congress –WRC 2009, Buenos Aires, Argentina, 18-23 October 2009.
 54. S. DVORSAK, J. VARGA, G. STAVRAKAKIS et al.
“Bio-waste management in the Balkan Countries: The cases of Romania, Slovenia, Greece & Bulgaria”
ORBIT 2010, "Organic Resources in the Carbon Economy", Europe's largest Organic Waste Management Conference, Heraklion, Crete, Greece, June 29-July 3, 2010.

55. S. DVORSAK, J. VARGA, G. STAVRAKAKIS et al.
 "Sampling and Analysis of Solid Municipal Waste In Balkan Region: The First Results and its significance"
 ISWA World Congress, Hamburg, Germany, 15th – 18th November 2010.

56. G. STAVRAKAKIS, N. PANAGIOTIDOU, K. MOUSTAKAS et al.
 "Development of a Decision Support Software Tool for the evaluation of different Waste Management Scenarios"
 ISWA World Congress, Hamburg, Germany, 15th – 18th November 2010.

57. G.P. VLASSIS, T. NIKOLAOU, G.S. STAVRAKAKIS, I. SKIAS
 "Per hour modeling of the operation of the isolated Power Production System of Crete-Greece with and without the introduction of a 20MW Pumped Storage System"
 The Deregulated Electricity Market issues in South-Eastern Europe 2010 (DEMSEE2010), 23-24 September 2010 in Sitia – Crete.

58. E. ELLINAKIS, G. VISKADOUROU, G. STAVRAKAKIS
 "Power Quality Monitoring in Isolated Power Grids Using Wavelet-Based ANFIS"
 The Deregulated Electricity Market issues in South-Eastern Europe 2010 (DEMSEE2010), 23-24 September 2010 in Sitia – Crete.

59. K. GOBAKIS, G. STAVRAKAKIS
 "Simplified building thermal capacitance modeling and control using Matlab/Simulink"
 Passive and Low Energy Cooling for the built Environment (PALENC) 2010, 29 September-1st October 2010, Rhodes Island, Greece.

60. N. KABELIS, E. GRIGOROUDIS, C. DIAKAKI, D. KOLOKOTSA, K. KALAITZAKIS, G. STAVRAKAKIS
 "A multi-objective decision support system for the improvement of energy efficiency in buildings"
 9th Special Conference of the Hellenic Operational Research Society (HELORS), "Quantitative Models in the Managerial and Financial Decision Making", May 2010, Agios Nikolaos, Greece.

61. K. GOBAKIS, D. KOLOKOTSA, G. STAVRAKAKIS, C. LYKAS
 "Application of advanced clustering methods in a GIS based forest fire risk assessment tool"
 CRETE 2012- 3rd International Conference on Industrial and Hazardous Waste Management. September 12-14, 2012, Chania – Greece.

62. Y.A. KATSIGIANNIS, G.S. STAVRAKAKIS
 "Estimation of wind energy production in Australia for different wind turbine classes"
 World Renewable Energy Congress - WREC 2013 International Conference", Murdoch University, Perth, Western Australia, 14-18 July 2013.

1. ESPRIT-I - project CIM 278: "Integrated sensor-based Robot System". October 1985 - July 1988.
Subcontractor of the National Technical University of Athens.
2. BRITE/EURAM programme 1989-1992 - project 2124: "Enhancement of inspection and maintenance of industrial structures using reliability based methods and expert systems".
September 1988 - September 1989.
Subcontractor of Synthesis s.r.l. - Milano, Italy in collaboration with the Institute of System Engineering and Informatics (ISEI) of the JRC-Ispra, Italy.
3. ESPRIT-II - project 63/40. February 1990 - February 1991. Optimal inventory-production control of multiproduct manufacturing systems.
Subcontractor of the National Technical University of Athens.
4. Wind Energy European Research and Development - contract CEE No 0028-F (CEE-ARMINES).
June 1990 - July 1991.
Subcontractor of ARMINES (Ecole Nationale Supérieure des Mines de Paris), Paris, France.
5. Non-Nuclear Energy (JOULE) EEC project JOU2-CT92-0053: "Development and Implementation of an advanced control system for the optimal operation and management of medium size power systems with a large penetration from renewable power sources" Oct. 92 - Dec. 94.
Co-coordinator with ARMINES (Ecole Nationale Supérieure des Mines de Paris).
6. STRIDE - 195. Hellenic Initiative for Multimedia Technologies and Applications. Responsible of the special action on Virtual Reality (Human animation through kinematic and dynamic simulation).
January 1st, 1992 - December 31st, 1993.
7. Human Capital and Mobility, November 1993 - November 1995.
A Force-Reflecting Hand Controller based on a new Compact Architecture - major applications in TELEOPERATION. Partner.
8. BRITE/URAM Research Training Fellowship (BRE2-CT93-3039), November 1993 - November 1995.
Decision making for requalification of structures. Partner.
9. FAULTLAB: A computational tool for the evaluation through simulation of various fault diagnosis methods in dynamical systems, January 1994 - December 1995. Research project (ΠΕΝΕΔ) financed from the General Secretariat of Research and Technology - Ministry of Industry, Energy and Technology - Greece. Partner.

10. Research project 92BE331 (ΠΑΒΕ), A fuzzy expert system for the environmental conditions monitoring in cargo-ships containers, September 1994 - September 1996. General Secretariat of Research and Technology - Ministry of Industry, Energy and Technology - Greece. Main Contractor.
11. CRAFT project No BRE2-CT93-0816, Maintenance Management & Performance Monitoring System for (Mobile) Lifting Equipment, January 1994 - December 1995. Subcontractor of the Partner PROJECT S.A. - Europliroforissi Institute. Larissa - Greece.
12. Research project 94BE37 (ΠΑΒΕ), Development and implementation of a real-time monitoring system for industrial furnaces based on fuzzy logic techniques, September 1995-September 1997. General Secretariat of Research and Technology - Ministry of Industry, Energy and Technology - Greece. Partner.
13. Research project with MAHB/ISEI/JRC-ISPRA, Prevention Control of Major Accident Hazards and their Consequences to man and the environment, January 1996-December 1998. Subcontractor of the Institute ISEI of the European Community Joint Research Center at ISPRA-ITALY.
14. Research Project MEDEA (EC Workprogram: MEASUREMENT AND TESTING), Quality Control for House-hold Appliances by On-line Evaluation of Mechanical Defects, January 1996-December 1999. Partner.
15. BRITE/EURAM Sub-contractor of MPA Institute-Stuttgart for the "Development of a multicriteria decision making software tool for supporting the inspection planning in power plants". February 1996-December 1996.
16. Non-Nuclear Energy (JOULE) EEC project CARE: Advanced Control Advice for power systems with large scale integration of Renewable Energy Sources. January 1997-June 2000. Associated Partner.
17. EU Energy Centre for North West Russia - TACIS Programme, Sept. 1996-Sept. 1998. Training programme on the technical and financial aspects of efficiency in energy use. Saint-Petersburg, Russia, 14-21 Sept. 1997. Main Lecturer.
18. BUILTECH: Combining Smart Card and Local Operating Network Technologies with Advanced Decision Support Techniques to Develop an Intelligent Industrial Energy Management System for Buildings. JOULE-III contract JOE3-CT97-0044. Dec. 1997 - April 2001. Coordinator.
19. EPEAEK: Preparation of Under-graduate Courses in the area of Technological Development and Connection of the Systems Engineering Studies with the Greek Market. Ministry of Education, 1998 - 2000. Partner.

20. EPEAEK: Preparation of Post-graduate Courses in the area of Industrial, Energy and Transportation Systems.
Ministry of Education, 1998 - 2000. Partner.

21. EPEAEK: Energy & Environment - Distance Education Course.
Ministry of Education, 1998 - 2000. Partner.

22. Dissemination of the Advanced Control Technologies for Isolated Power Systems with Increased Renewable Energy Sources Penetration.
THERMIE Type B Contract DIS-1625-98-GR, November 1998 - October 2000. Scientific Manager.

23. CAREER OFFER for Greek Scientist living abroad.
«Research on the microclimatic conditions and elaboration of models for their prediction for optimal fire management inside the Samaria Gorge in Crete Island».
General Secretariat for Research and Technology. February 1999-February 2002.
Scientific Manager.

24. LEONARDO DA VINCI. «Developing distance training courses for SMART Buildings Energy Management».
Contract EL/B/P/2000/114146. December 2000 – December 2003. Coordinator.
PROJECT SITE: www.smart-be.tuc.gr .

25. INFORMATION SOCIETY TECHNOLOGIES PROGRAMME. «INDustry-driven TRAINing for Low-power European Designers-INTRALED».
Contract IST-2001-34631. January 2002 – February 2005. Sub-Contractor of the company INTRACOM.

26. SMART NODE FOR INDOOR AIR QUALITY AND ENERGY MANAGEMENT IN BUILDINGS.
Creation of Spin-off Company, program 01 ΠΡΑΞΕ 71, General Secretariat of Research and Technology. September 2002 – December 2003. Prime Contractor.

27. ACCELERATION OF SMART BUILDINGS TECHNOLOGIES AND MARKET PENETRATION.
Contract SAVE 4.1031/Z/02-094/2002. February 2003 – March 2005. Prime Contractor – Coordinator.
PROJECT SITE: www.ibuilding.gr .

28. e-MANAGEMENT FOR INDOOR ENVIRONMENT AND ENERGY SAVINGS IN BUILDINGS.
General Secretary of Research and Technology (GSRT) Concerted Program “Renewable Energy Sources and Energy Saving”. September 2003 – September 2006. Coordinator.
PROJECT SITE: www.ebuilding.gr .

29. "PURE- PROMOTING THE USE OF PHOTOVOLTAIC SYSTEMS IN THE URBAN ENVIRONMENT THROUGH DEMO RELAY NODES.1-1-2006—31-12-2008. Senior Scientific Researcher.
PROJECT SITE: www.pure-eie.com .

30. RERINA - Integration of Renewable Energy Technologies in Rural Insular Areas. SAVE -ALTENER funded. December 2005-December 2007.Senior Scientific Researcher.
PROJECT SITE: www.rerina.net .

31. BALKWASTE-Waste network for sustainable solid waste management planning and promotion of integrated decision tools in the Balkan region" . LIFE + funded. 1st January 2009- 31-12-2011.
PROJECT SITE: www.balkwaste.eu . Partner.

32. LIFE FOREST CITIES-Local Authorities' Alliance for Forest Fire Prevention
LIFE+ funded.1st January 2010 until 31-12-2012.
PROJECT SITE: www.forestcities.gr . Partner.

33. CREAM-Innovative technological platform for compact and reliable electronic integrated in actuators and motors.
EC FP-7 financed Project . 1st September 2010 until 31 August 2011.
Sub-contractor of the Partner Technological Educational Institute of Piraeus.

34. ΟΛΟΚΛΗΡΩΜΕΝΟ ΣΥΣΤΗΜΑ ΣΥΝΕΧΟΥΣ ΠΑΡΑΚΟΛΟΥΘΗΣΗΣ ΕΚΠΟΜΠΩΝ ΡΥΠΩΝ & ΒΕΛΤΙΣΤΗΣ ΔΙΑΧΕΙΡΙΣΗΣ ΤΩΝ ΕΝΕΡΓΕΙΑΚΩΝ ΛΕΙΤΟΥΡΓΙΚΩΝ ΠΑΡΑΜΕΤΡΩΝ ΠΛΟΙΩΝ (σύντμηση τίτλου E-GREENSHIP) (2011-2014)». ΓΓΕΤ 09ΣΥΝ-51-871.(ΕΠΙ ΤΣ/ΠΚ).
PROJECT SITE: www.egreensghip.com . Partner.

35. Local Partnerships for Greener Cities and Regions-Green Partnerships-MED OPERATIONAL PROGRAMME 2007-2013. Partner.

36. Design of an intelligent system for sustainable management of water networks: application to Crete Island-Greece. Oct. 1st 2015-Dec. 31st 2016. Project code:ΣΑ075/8.Funding code: GR02XM EOX 2009-2014.Partner.

37. Development and application of advanced artificial intelligence methods in the purpose of theft detection in "smart" electric power grids with increased RES penetration.
1st-11-2017 until 28-02-2019. General Secretary of Research and Technology. 1st ELIDEK Announcement for Doctoral Candidates. Scientific Responsible.

38. CMBR - Centre for the study and sustainable exploitation of Marine Biological Resources.

Responsible of the work package concerning the electricity needs covering of the marine structure using Renewable Energy Sources.1st-01-2018 until 31-12- 2020. National Roadmap for Research Infrastructures-General Secretary of Research and Technology. Partner.