

Βιογραφικό Σημείωμα

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Γεννήθηκε στην Πάτρα το 1958. Σπούδασε Φυσική στο Πανεπιστήμιο Πατρών από το 1976 ως το 1980 (8.41). Η διδακτορική του διατριβή (Κυκλώματα Διαμόρφωσης Δ) ολοκληρώθηκε το καλοκαίρι του 1985 στο Εργαστήριο Ηλεκτρονικής του Τμήματος Φυσικής. Υπηρέτησε τη στρατιωτική του θητεία από τον Αύγουστο του 1985 ως το Μάιο του 1987. Από το 1987 είναι μέλος ΔΕΠ στο Εργαστήριο Ηλεκτρονικής του Τομέα Ηλεκτρονικής και Υπολογιστών του Τμήματος Φυσικής του Πανεπιστημίου Πατρών και από το 2005 Καθηγητής.

Έχει εργαστεί ερευνητικά για δύο χρόνια σε Πανεπιστήμια του Καναδά (Toronto 1989-1990, και Quebec City 1994-1995) σε θέματα επεξεργασίας ψηφιακής εικόνας και αναγνώρισης αντικειμένων καθώς και επεξεργασίας σημάτων Radar.

Τα ερευνητικά του ενδιαφέροντα εστιάζονται στις περιοχές της ψηφιακής επεξεργασίας σήματος, της αναγνώρισης αντικειμένων και της τηλεπισκόπησης. Έχει δώσει έμφαση στην επεξεργασία χειρόγραφου κειμένου, στα βιομετρικά σήματα, στις τεχνικές σύνθεσης αποφάσεων καθώς και στη μελέτη των στατιστικών χαρακτηριστικών της ηχούς του Radar από θάλασσα και από ξηρά. Στα θέματα της τηλεπισκόπησης, όπου χρησιμοποιεί δεδομένα SAR, πολυφασματικά και εικόνες υπερύθρου, εστιάζει στην επιτήρηση περιοχών της γης με σκοπό την ανίχνευση αλλαγών στην επιφάνειά της ή το χαρακτηρισμό αντικειμένων. Επίσης έχει ασχοληθεί με την αύξηση της ανάλυσης στην εικόνα (super-resolution) αντιμετωπίζοντας το θέμα ως αντίστροφο πρόβλημα. Τελευταία εμπλέκεται στην επεξεργασία εικόνων Αστροσωματιδιακής Φυσικής. Έχει περίπου 130 εργασίες σε διεθνή περιοδικά και συνέδρια και περισσότερες από 2000 αναφορές από άλλους ερευνητές (<http://scholar.google.gr/citations?user=BYcshrUAAAAJ&hl=en&oi=ao>).

Έχει δώσει 7 διδακτορικές διατριβές στα ερευνητικά αντικείμενα με τα οποία ασχολείται. Διδάσκει για 30 χρόνια Ηλεκτρονικά, Ψηφιακή Επεξεργασία Σήματος, Αναγνώριση Προτύπων, Τηλεπισκόπηση και Προγραμματισμό. Η συγγραφική του δραστηριότητα περιλαμβάνει το βιβλίο «Delta-Sigma Modulators, Modeling, Design and Applications», Imperial College Press, Singarore, 2003, το βιβλίο «Εισαγωγή στην πληροφορική», Εκδόσεις Ελληνικά Γράμματα, το βιβλίο για το Ανοικτό Πανεπιστήμιο «Ψηφιακή Επεξεργασία Εικόνων και Σημάτων» καθώς και πανεπιστημιακές σημειώσεις για Εισαγωγή στην C++.

Στις ενεργές διεθνείς συνεργασίες του συγκαταλέγονται, η ομάδα CAST στο CERN (spokesperson K. Zioutas) όπου συμμετέχει στην ψηφιακή επεξεργασία δεδομένων για την ανίχνευση σωματιδίων σκοτεινής ύλης. Στη συνεργασία αυτή συμμετέχει και η αντίστοιχη ομάδα στο DESY με τον Dr. Axel Lindner (spokesperson of the ALPS experiment in DESY). Επίσης συνεργάζεται με το Γεωφυσικό Ινστιτούτο του Ecole Normale Superiere στο Παρίσι (prof. Pierre Briole) στα πλαίσια της δημιουργίας και υποστήριξης του Corinth Rift Geophysical Laboratory. Με το εργαστήριο αυτό ολοκληρώθηκε μία κοινή διδακτορική διατριβή και υπάρχει στενή συνεργασία στην εκτέλεση του προγράμματος ΘΑΛΗΣ. Έχει συνεργασία για περισσότερα από 20 έτη με την Καναδική Εταιρία AUG Signals σε θέματα

ανίχνευσης και αναγνώρισης αντικειμένων, τηλεπισκόπησης και σύνθεσης πληροφορίας. Τέλος, έχει ξεκινήσει συνεργασία με το εργαστήριο ETRO στο VUB.

Διετέλεσε αναπληρωτής εκπρόσωπος της Ελλάδας στον Ευρωπαϊκό Οργανισμό Διαστήματος από το Μάρτιο του 2005 ως το 2010, στην επιτροπή διοίκησης και οικονομικών (AFC ESA committee). Έχει διατελέσει κριτής σε εθνικά και ευρωπαϊκά προγράμματα. Ήταν Associate Editor στο περιοδικό Pattern Recognition, ενώ διετέλεσε για τρία χρόνια Associate Editor στο περιοδικό IEEE Transactions on Circuits and Systems, Part II. Είναι μέλος του IEEE και της Ένωση Ελλήνων Φυσικών.

Διετέλεσε Πρόεδρος στο Τμήμα Φυσικής του Πανεπιστημίου Πατρών, τις διετίες 2001-2003 και 2005-2007. Από το 2006 ως το 2010 ήταν Αντιπρύτανης Στρατηγικού Σχεδιασμού και Ανάπτυξης της Έρευνας στο Πανεπιστήμιο Πατρών. Από το 2011 ως το 2013 ήταν υπεύθυνος για τη δημιουργία και δραστηριοποίηση του Γραφείου Καινοτομίας και Μεταφοράς Τεχνογνωσίας του Πανεπιστημίου Πατρών. Από το 2016 είναι Πρόεδρος και Διευθύνων Σύμβουλος του Επιστημονικού Πάρκου Πατρών.

Έχει συντονίσει τα ερευνητικά προγράμματα.

The following research projects have been carried out under his coordination:
2003-2006: HERAKLEITUS I, «Information Fusion Methods in Multispectral Images».
2005 – 2007: "THETIDA – System for Sea Monitoring and Surveillance using SAR Satellite data", funded by the Greek Secretariat of Research and Technology, under the Operational Program for Western Greece 2000-2006.
2005 – 2007: "ADHOCSYS - Wireless Ad-Hoc Broadband Monitoring System", funded by the European Commission under the FP6 Information Society Technologies programme.
2005 – 2008: "PENED 2003: System development of remote-sensed data processing, for automatic detection, classification and categorization of regions with environmental changes", funded by the Greek Secretariat of Research and Technology.
2005 – 2008: "**Development of a system based on remote sensing data for automatic detection and classification of areas with environmental degradations**", funded by the Greek Secretariat of Research and Technology, under the Greece-UK cooperation program.
2005 – 2007: "Assessment of the synergistic exploitation of ENVISAT ASAR and MERIS data for plain flood rapid mapping and flood support risk management", project undertaken in the context of ESA Dragon program.
2012-2014: National Action "Cooperation 2011", JASON: "Joint synergistic and integrated use of eArth obServation, navigatiOn and commuNication technologies for enhanced border security".
2010-2013: HERAKLEITUS II, "Person Psychophysical condition Identification using Infrared Imagery".
2012-2014: The "Landslide Vulnerability Model – LAVMO", THALES, National Project.
2011-2014: "ShipDetect: Development of small ship detectors based on polarimetric SAR data", Contract No. 45NEWE2009, funded by the General Secretariat for Research and Technology, ESPA 2007-2013.

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