Βιογραφικό Σημείωμα Κων/νου Χαλάτση (for English press here)
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Προσωπικά Στοιχεία
Αξαδιμαϊκές Διαλέξεις
Συμμετοχή σε Ερευνητικά Προγράμματα
Δημοσιεύσεις

Σύνοψη
Ο Καθηγητής Κων/νος Χαλάτσης γεννήθηκε στην Αθήνα το 1941. Σπούδασε στο Πανεπιστήμιο Αθηνών και στο Πανεπιστήμιο του Manchester της Αγγλίας απ' όπου έλαβε αντίστοιχα το Πτυχίο Φυσικής, το Μεταπτυχιακό Δίπλωμα Ηλεκτρονικής και το Διδακτορικό Φιλοσοφίας (Ph.D) στην Πληροφορική. Από το 1971 έως το 1981 εργάστηκε ως ερευνητής στο Κέντρο Υπολογιστών του ΕΚΕΦΕ Δημόκριτος, από όπου απεχώρησε ως Δ/ντής, αυτού. Το 1981 εξελέγη Τακτικός Καθηγητής στην έδρα των Ηλεκτρονικών Υπολογιστών του Τμήματος Φυσικής του Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης και το 1988 μετακλήθηκε στο Πανεπιστήμιο Αθηνών, ως τακτικός καθηγητής του Τμήματος φυσικής. Μετά ένα χρόνο μετακινήθηκε στο νεοσύστατο Τμήμα Πληροφορικής υου πανεπιστημίου Αθηνών, το οποίο το 2000 μετονομάστηκε σε Τμήμα Πληροφορικής και Τηλεπικοινωνιών (see **http://www.di.uoa.gr**).. Ο καθηγητής Χαλάτσης υπηρέτησε στο Τμήμα μέχρι τον Αύγουστο του 2008 και έκτοτε είναι ομότιμος Καθηγητής της Επιστήμης των Υπολογιστών στο Τμήμα Πληροφορικής και Τηλεπικοινωνιών. Πρόσφατα. Ο Καθ. Χαλάτσης ήταν με το Πανεπιστήμιο Νεάπολις Πάφου στην Κύπρο όπου ίδρυσε τη Σχολή Επιστημών Πληροφορίας για προπτυχιακές και μεταπτυχιακές σπουδές στην Εφαρμοσμένη πληροφορική και Πληροφοριακά Συστήματα, αντίστοιχα (see **http://www.nup.ac.cy**). Σήμερα είναι σύμβουλος Πληροφορικής. Παράλληλα και για το διάστημα 1988-93 διετέλεσε Δ/ντής του Ινστιτούτου Πληροφορικής και Τηλεπικοινωνιών του ΕΚΕΦΕ Δημόκριτος. Επίσης κατά διαστήματα και για τρία συνολικά χρόνια εργάστηκε ως επισκέπτης επιστημονικός συνεργάτης στο Κέντρο Πυρηνικών Ερευνών CERN στη Γενεύη, όπου σχεδίασε και υλοποίησε προηγμένα συστήματα Υλικού και Λογισμικού. Επίσης κατά το ακαδημαϊκό έτος 2007-08 ήταν επισκέπτης καθηγητής στο Πανεπιστήμιο Κύπρου και στο Ανοικτό Πανεπιστήμιο Κύπρου Έχει διδάξει μια πληθώρα σε θεματολογία μαθήματα σε προπτυχιακό και μεταπτυχιακό επίπεδο και έχει επιβλέψει τη διδακτορική διατριβή πολλών σπουδαστών, αρκετοί των οποίων σήμερα είναι Καθηγητές σε Ελληνικά Πανεπιστήμια. Έχει χρηματοδοτηθεί για πληθώρα ευρωπαϊκών και εθνικών ερευνητικών προγραμμάτων και έχει συγγράψει και δημοσιεύσει σε διεθνή περιοδικά και πρακτικά συνεδρίων περισσότερες από 150 ερευνητικές εργασίες και έχει τύχει διεθνούς αναγνώρισης. His main research area is that of Computer Architecture, both at the single processor level and that of multiprocessor systems (Von Neumann and non Von Neumann types of Architecture) for high performance computing and networking, HPCN. However he has conducted research in several other areas of CS, the main of which are in the areas of Artificial Intelligence (Logic Programming,

CLP), Software Eng, e-government, e-learning (affective computing). Η κύρια ερευνητική του περιοχή είναι αυτή της Αρχιτεκτονικής Υπολογιστών, στο επίπεδο του ενός επεξεργαστή και σε συστήματα πολυεπεξεργαστών(Von Neumann and non Von Neumann types of Architecture) για υπολογιστική υψηλών επιδόσεων, HPCN. Έχει επίσης διεξάγει έρευνα και σε άλλες περιοχές της Επιστήμης των Υπολογιστών, οι κυριότερους αυτές στην περιοχή της Τεχνητής Νοημοσύνης (Λογικός Προγραμματισμός, Λογικός Προγραμματισμός με περιορισμούς), Τεχνολογία Λογισμικού, ηλεκτρονική διακυβέρνηση, η-μαθηση (συναισθηματική υπολογιστική) . Η πρόσφατη προσωπική του ερευνητική δραστηριότητα επικεντρώνεται σε θεμελιώδη ανοικτά προβλήματα της Επιστήμης των Υπολογιστών, πέραν των ήδη περιοχών. Από αναπτυξιακής πλευράς η πρόσφατη δραστηριότητά του επικεντρώνεται στην χρήση της Εικονικής Πραγματικότητας σε Πολιτισμικές εφαρμογές, και σε θέματα σχετιζόμενα με την η-διακυβέρνηση, η-ταυτότητα και αποθετήρια δεδομένων. Έχει χρηματίσει σε διάφορες ακαδημαϊκές θέσεις, έχει συμμετάσχει σε πολλές διεθνείς και εθνικές επιτροπές και συμβούλια, και έχει χρηματίσει σε πολλές διεθνείς και εθνικές επιτροπές κρίσεων μελών ΔΕΠ, ερευνητικών και αναπτυξιακών προγραμμάτων. Έχει μελετήσει και σχεδιάσει μεγάλα έργα Πληροφορικής και έχει συμβάλει αποφασιστικά στην ανάπτυξη και λειτουργία της Σχολής Θετικών Επιστημών και Τεχνολογίας του νέου Πανεπιστημίου Πελοποννήσου. Ακολουθούν λεπτομέρειες

Λεπτομερές Βιογραφικό Προσωπικά στοιχεία
    Όνομα: Κωνσταντίνος Χρ. Χαλάτσης
    Τίτλος Ομότιμος Καθηγητής Επιστήμης Υπολογιστών
    Οικογενειακή Κατάσταση: Έγγαμος, δύο τέκνα, δύο εγγόνια.

Σπουδές
    1964: Πτυχίο Φυσικής, Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών.
    1966: Μεταπτυχιακό Δίπλωμα στην Ηλεκτρονική, Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών.
    1971: Διδακτορικό Δίπλωμα στην Επιστήμη των Υπολογιστών, University of Manchester (UMIST), UK.

Επαγγελματική Σταδιοδρομία:

- 9/2008 – Σήμερα Ομότιμος καθηγητής, Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών
- 7/2017 – Today: Σύμβουλος Πληροφορικής
- 9/2014 - 6/2017: Professor of Informatics, Neapolis University Pafos, Cyprus
- 9/2009 – 8/2013: Consultant to Cyprus Government, the Department of Information Systems on e-Governance issues (government gataway, electronic identification, eID and Data Warehouse-Data Mining)
- 9/2009 - 6/2012: Διδασκαλία στο Ανοικτό πανεπιστήμιο Κύπρου
- 9/1988 - 8/2008: Καθηγητής Επιστήμης Υπολογιστών, Τμήμα Πληροφορικής και Τηλεπικοινωνιών, Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών.
- 9/2007-8/2009 Visiting Professor at the University of Cyprus and the Open University of Cyprus
- 1988 – 1993: Διευθυντής του Ινστιτούτου Πληροφορικής και Τηλεπικοινωνιών ΕΚΕΦΕ Δημόκριτος.
- 1981 – 1988: Τακτικός Καθηγητής της Επιστήμης των Υπολογιστών, Τμήμα Φυσικής, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης.
- 1985 - 1987 and 1978 – 1979: Επιστημονικός Συνεργάτης του Τμήματος Υπολογιστών του CERN, Geneve, CH (με σαββατική άδεια).
- 1979 – 1981: Διευθυντής του Υπολογιστικού Κέντρου του ΕΚΕΦΕ Δημόκριτος.
- 1971 – 1979: Ερευνητής στο Υπολογιστικό Κέντρο του ΕΚΕΦΕ Δημόκριτος.

Ακαδημαϊκές και Διοικητικές θέσεις στις οποίες έχει χρηματίσει:

Κοσμήτορας της Σχολής Θετικών Επιστημών στο Αριστοτέλειο Παν/μιο Θεσσαλονίκης.
Πρόεδρος Τμημάτων στο Παν/μιο Αθηνών και στο Παν/μιο Πελοποννήσου.
Μέλος Συγκλήτου στο Παν/μιο Αθηνών και στο Αριστοτέλειο Παν/μιο Θεσσαλονίκης.
Δ/ντής Ερευνητικού Ινστιτούτου στο ΕΚΕΦΕ Δημόκριτος.
Δ/ντής Τομέα στο Παν/μιο Αθηνών.
Πρόεδρος και μέλος πολλών ακαδημαϊκών συμβουλίων και επιτροπών.
Δ/ντής του Κέντρου Υπολογιστών του ΕΚΠΑ

Διδασκαλία:

Έχει διδάξει τα τελευταία χρόνια/He has taught the last few years:

1. **Εισαγωγή στην Επιστήμη της Πληροφορικής και των Τηλεπικοινωνιών/Introduction to Computer Science and Telecommunications** (Προπτυχιακό μάθημα κορμού Α! Εξαμήνου/Undergraduate core course 1st semester)
2. **Προηγμένη Αρχιτεκτονική Υπολογιστών/Advanced Computer Architecture** (Μεταπτυχιακό μάθημα /Postgraduate course)
3. **Εισαγωγή στην Κρυπτογραφία/Introduction to Cryptography** (Προπτυχιακό μάθημα επιλογής/Undergraduate elective course)
4. **Θεωρία Πολυπλοκότητας/Complexity Theory** (Προπτυχιακό μάθημα κορμού Α! Εξαμήνου/Undergraduate core course 1st semester)
5. **Αυτόματη Συλλογιστική/Automated Reasoning** (Μεταπτυχιακό μάθημα Τμήματος ΜΙΘΕ/Postgraduate course Dept MHFS)
6. **Υπολογιστές και Υπολογιστική Υψηλών Επιδόσεων (HPC)** (Μεταπτυχιακό μάθημα)
7. **Ιστορία της Πληροφορικής και των Τηλεπικοινωνιών (**Προπτυχιακό μάθημα)

Αλλα μαθήματα που έχει διδάξει στο παρελθόν:

- Λογική Σχεδίαση/Logic Design
- Μικροϋπολογιστές/Microprocessors
- Αρχιτεκτονική Υπολογιστών/Computer Architecture
- Λειτουργικά Συστήματα/Operating Systems
- Λογικός Προγραμματισμός/Logic Programming
- Τεχνητή Νοημοσύνη/Artificial Intelligence
- Θεωρία Παιγνίων/Games Theory
- Έμπειρα Συστήματα/Expert Systems

Επιστημονικές δραστηριότητες μέχρι σήμερα:

- Προσκεκλημένος ομιλητής σε Διεθνή και Εθνικά Συνέδρια
- Προσκεκλημένος ομιλητής σε Εκπαιδευτικές Ημερίδες και Ημερίδες Εργασίας
- Πρόεδρος της Διοικούσας Επιτροπής των Συνεδρίων PARLE και μέλος της Διοικούσας Επιτροπής των Συνεδρίων EURO-PAR.
- Μέλος των Επιτροπών Οργάνωσης Διεθνών και Εθνικών Συνεδρίων.
- Κριτής σε Επιστημονικά Περιοδικά και Συνέδρια (IEEE, ACM, etc.)
- Εθνικός Εκπρόσωπος στην ομάδα πολιτικής δικτύων EUREKA/COSINE και Υπεύθυνος του Ακαδημαϊκού Δικτύου ΑΡΙΑΔΝΗ.
- Πρόεδρος της Επιτροπής Επιλογών Καθηγητικού Προσωπικού για το Τμήμα Πληροφορικής του Πανεπιστημίου της Κύπρου (μέχρι το 1994).
- Αξιολογητής και Κριτής Έργων της Ευρωπαϊκής Ένωσης , της ΓΓΕΤ, του ΥΠΕΠΘ.

- Κύριος μελετητής του έργου 'Αυτοματισμός Γραφείου' για την Κυπριακή Κυβέρνηση
- Κύριος μελετητής του έργου 'Πληροφοριακό Σύστημα Περιβάλλοντος' του ΥΠΕΧΩΔΕ.
- Κύριος μελετητής της κτιριακής, εργαστηριακής, ανθρώπινης και λοιπής υποδομής των Τμημάτων της Σχολής Θετικών Επιστημών και Τεχνολογίας , έδρα την Τρίπολη, του Πανεπιστημίου Πελοποννήσου, στα οποία διετέλεσε κατά το πρώτο έτος λειτουργίας τους Πρόεδρος των Προσωρινών Γενικών Συνελεύσεων αυτών. Συντάκτης του σχετικού Δεκαετούς Προγραμματισμού για το όλο Παν/μιο Πελοποννήσου.
- Μέλος εκλεκτορικών σωμάτων για μέλη ΔΕΠ ΑΕΙ για όλα σχεδόν τα Ελληνικά Πανεπιστήμια, ως και επιτροπών απονομής διδακτορικού διπλώματος.
- Μέλος πολλών επιτροπών σύνταξης προδιαγραφών, αξιολόγησης προσφορών για πολλά Συστήματα Υπολογιστών του Δημοσίου και του Ευρύτερου Δημοσίου Τομέα.

Ερευνητικά και Αναπτυξιακά ενδιαφέροντα:

Ο καθηγητής Χαλάτσης έχει ένα ευρύ πεδίο ενδιαφερόντων. Έχει διεξάγει έρευνα στις ακόλουθες περιοχές: Αρχιτεκτονική Υπολογιστών, Λογική Σχεδίαση, Σχεδιασμός VLSI, Τεχνητή Νοημοσύνη, Έμπειρα Συστήματα, Τεχνολογία Γνώσεων, Λογικός Προγραμματισμός και Μηχανές PROLOG, Βάσεις δεδομένων και γνώσεων, Προγραμματισμός με Περιορισμούς, Αριστοποίηση χρονοπρογραμματισμού και σχεδιασμού, Δίκτυα Υπολογιστών, Συστήματα Πολυμέσων και Υπερμέσων, Εικονική Πραγματικότητα, Παράλληλοι υπολογισμοί, Παράλληλοι Αλγόριθμοι, Υπολογιστικά Συστήματα Υψηλής Απόδοσης (HPCN), Τεχνολογία Λογισμικού, Ανάλυση και Σχεδιασμός Συστημάτων, Ηλεκτρονική Διακυβέρνηση, Εικονικά Μουσεία. Η πρόσφατη ερευνητική του δραστηριότητα επικεντρώνεται στην σπουδή θεμελιωδών ανοικτών προβλημάτων στην Πληροφορική με κεντρικό ερώτημα αυτό του άλυτου προβλήματος P έναντι NP. Στο αναπτυξιακό τομέα τον απασχολεί η ανάπτυξη μια μεθοδολογίας σχεδιασμού φιλικών και αυτοπροσαρμοζόμενων συστημάτων οπτικοποίησης πληροφορίας.

Ερευνητικά και Αναπτυξιακά έργα:
Ο καθηγητής Χαλάτσης έχει συμμετάσχει, κυρίως ως υπεύθυνος έργου, σε διάφορα Ε&Α έργα που έχουν χρηματοδοτηθεί από την Ευρωπαϊκή Επιτροπή και εθνικούς φορείς.SPAN of Esprit I (member of the UoA group)

- EDS of Esprit II (leader for the UoA group)
- PCA of Esprit II (member of the UoA group)
- SAFE of Delta (member of the UoA proup)
- OSMOSE1 of Esprit I (co-leader of the UoA group)
- OSMOSE of Esprit II (co-leader of the UoA group)
- APPLAUSE of Esprit II (leader for the UoA group)
- GP-MIMD of Esprit II (co-leader of the UoA group)
- PARACHUTE of Esprit III (leader for the UoA group)
- MEMOIR of ESPRIT IV (co-leader of the UoA group)
- PARROT of ESPRIT IV (leader of the UoA group and co-technical co-ordinator of the whole project)
- Virtual Museums (leader)

In the the project SPAN of Esprit I the UoA group was engaged in the development of a parallel query processor for relational DB systems.

In the EDS (European Declarative System) project his group has worked together with the ECRC, an industrial research centre common resource of Bull, ICL and Siemens, developing a parallel Prolog environment. In particular his group was responsible for introducing modules, abstract data types, numerical processing capabilities and real-time constructs and for developing a major application in the parallel logic programming language ElipSys, a language that supports various forms of parallelism and constraint programming. The funding for the UoA group was KECU 127 and MDRA 3,5 Matching funds.

In the PCA (Parallel Computing Action) initiative, the group has been funded and has acquired a transputer-based 16-node parallel machine, the Supercluster-16, from Parsytec / Paracom. The machine ran under the Helios operating system, and among other it included the Strand concurrent logic programming language. The machine is connected to our Ethernet LAN, and is used by several members of our department. Our group works on parallel Prolog and parallel relational database retrieval algorithms. The funding for the UoA group was KECU 15.

In the SAFE (Standard Authoring Facility Environment) project has worked on a hypertext-type and object-oriented authoring model for learning. The funding for the UoA group was ECU

In the OSMOSE1 (Open Standard for Multimedia Optical Storage Environments) exploratory action, the group has worked on object-oriented multimedia databases requirements analysis and specification. The funding for the UoA group was ECU

The project OSMOSE (a continuation of OSMOSE-1) was concerned with Multimedia and our role was to develop a multimedia asset management system for the development platform and a query processor for semantic-based multimedia information retrieval for the delivery platform. Outside the scope of these projects, a number of internal projects, related to CAI and RDL, investigated the use of AI and VR in the development of advanced instructional environments. The funding for the UoA group was ECU

APPLAUSE, a continuation of the EDS project, his group was assessing the ECLiPSe language; a parallel logic language with constraints, by developing a multi-agent tourist advisor called MaTourA. This system has been developed in co-operation with ESI, GR, with the intention to provide tourism services via networks. A three-layered communication framework has been developed for the purpose of supporting the communication among the agents in a multi-agent system. ECRC was the prime contractor of this project. The funding for the UoA group was KECU 140,43 and MDRA 10 Matching funds.

In the context of the GP-MIMD project and in co-operation with the Technical University of Athens and the Computer Technology Institute of Patras we acquired a 512-node massively parallel machine for developing and porting various applications. The result of this co-operation has been the creation of the Athens High Performance Computing Laboratory, (AHPCL), a non-profit private company that promotes HPCN applications. The total funding was KECU 600.

In the project PARACHUTE, the UoA, in co-operation with Bull (FR), ILOG (FR) and Olympic Airways (GR), developed a crew management system (crew scheduling and follow-up system). The technology used in this project included object-oriented constraint-based parallel programming. The crew scheduling subsystem covered both the pairing construction and crew assignment (rostering) phases using a C++ constraint programming library, namely ILOG Solver. The funding for the UoA group was KECU 350,67 and MDRA 40 Matching funds.

The MEMOIR project (Managing Enterprise-scale Multimedia using an Open Framework for Information Re-use, EP 22153) demonstrated the applicability and integration of advanced distributed multimedia information systems to support the management of diverse sources of technical information in two large pan-European R&D-based corporations. The demonstration systems developed during the project showed that users could productively access the same source information with very different information requirements via a single underlying information infrastructure. The introduction of such a multimedia information infrastructure will substantially increase the productivity of researchers and other technical information users. In the context of Memoir, the UoA, in co-operation with PAC (UK), Multicosm (UK), IBEX (FR) and two end-user organisations (Glaxo UK, Unichema), has developed intelligent software agents which identify geographically isolated workers who are involved in similar activities, identify relevant information based upon statistical analysis of the content and monitor a variety of dynamic information sources in order to prompt the user with relevant information automatically. The funding for the UoA group was ECU

EP 24960, is the continuation of the PARACHUTE project. The UoA co-operates with ILOG (FR), Lufthansa Systems (D), Olympic Airways (GR) and the University of Paderborn (D) for the improvement of crew rostering quality and performance by applying a parallel approach and by developing on promising results in the combination of operations research techniques and constraint programming. Identification of the optimal mix of techniques and the appropriate degree of parallelization for the characteristics of different airlines will result in approaches that are adapted to small, medium and large size companies' situations. PARROT follows a preferential bidding policy, it elaborates on a common language, usable trans-nationally, for description of legal, contractual and labour union regulations and rules and, finally, a demonstrator is being built which will be validated and evaluated appropriately. The UoA group is using a direct constraint-programming method and parallelism for solving the rostering scheduling problem. Several search tree algorithms and heuristics are being developed. The funding for the UoA group is KECU 265,50.

Also the group through funding of the IMP for Informatics initiative and that of Structural Funds of the EU Framework Programme has developed a Multimedia laboratory for research, development and services. The lab has all appropriate equipment, to cover all steps of CD-ROM & CD-I publishing (data capture, data editing, authoring / application development, and production), video conferencing, video on demand, Virtual Reality tools and applications.

project concerns the development of a generic Virtual Museum kernel S/W to cover the needs of the various university museums as well as a private museum that participates in the project. More information may be found in the relevant web page. The funding for the UoA group is MDRA 192,3 out of a MDRA 350 total budget.

Publications:

Ph. D. Thesis

C. Halatsis, "Hardware Considerations of Executive and Information Retrieval Systems", Ph.D. Thesis, University of Manchester, Aug. 1971

Publication in scientific journals

1. G. Philokyprou and C. Halatsis, "Floating-Point and Multi-Bit Increment Digital Differential Analyser Structures", Electronics Letters, Oct. 1972, p. 531 – 532, http://digital-library.theiet.org/content/journals/10
2. C. Halatsis, G. Philokyprou and D. Maritsas, "Analysis of Block-Organized Buffers for Poisson Input an Periodic Block Output", Int. J. of Systems Science, vol 5, no 1, 1974, http://dx.doi.org/10.1080/00207727408920074
3. G. Philokyprou and C. Halatsis, "Electronic Buffer Memories", Int. J. of Electrical Engineering Education, vol 12, pp 25 - 36, 1975, http://ije.sagepub.com/content/12/1/25.full.pdf+html
4.   C. Halatsis, G. Philokyprou and D. Maritsas, "Designing block-structured bubble-up buffers", Electronic Engineering, April 1976,pp 45-48.
5. G. Philokyprou, C. Halatsis and N. Gaitanis, "On the Problem of Finding d. t, r, and j Type Partition Pairs of a Sequential Machine", IEEE Transactions on Computers, March 1977.
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