Χαράλαμπος Δουλαβεράκης
Βιογραφικό σημείωμα

Μόρφωση	
2004	Δίπλωμα Ηλεκτρονικού Μηχανικού & Μηχανικού Υπολογιστών, Πολυτεχνείο Κρήτης
2008	Μεταπτυχιακό δίπλωμα ειδίκευσης στα «Προηγμένα Συστήματα Υπολογιστών & Επικοινωνιών», Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης

Εργασιακή Εμπειρία	
9/2016 - σήμερα	Ειδικό Τεχνικό Εργαστηριακό Προσωπικό (ΕΤΕΠ) στο Εργαστήριο Αρχιτεκτονικών Προπλασμάτων και Τεχνολογικών Εφαρμογών, Σχολή Αρχιτεκτονικής, Πολυτεχνείο Κρήτης
1/2004 - 7/2006, 10/2007 - 7/2016	Ερευνητικός συνεργάτης στο Ινστιτούτο Πληροφορικής και Τηλεματικής (ΙΠΤΗΛ) του Εθνικού Κέντρου Έρευνας και Τεχνολογικής Ανάπτυξης, Θεσσαλονίκη (ΕΚΕΤΑ, *url:* http://www.iti.gr). Απασχόληση σε Εθνικά ή Ευρωπαϊκά έργα έρευνας και ανάπτυξης, σε κλιμακούμενες θέσεις ευθύνης από ανάπτυξη συστημάτων έως τεχνικός υπεύθυνος.
10/2009 – 9/2011	Εργαστηριακός συνεργάτης στο ΤΕΙ Σερρών. Διεξαγωγή του εργαστηρίου του μαθήματος «Βάσεις Δεδομένων ΙΙ» στο Τμήμα Μηχανικών Πληροφορικής ΤΕ
10/2006 – 8/2007	Έφεδρος του Σώματος Έρευνας και Πληροφορικής του Ελληνικού Στρατού. Κύρια καθήκοντα ήταν η διαχείριση δικτύου και η υποστήριξη σε θέματα πληροφορικής

Γνώσεις πληροφορικής	
Γλώσσες προγραμματισμού	• Java, C/C++ • PHP, Javascript, HTML, CSS, JSP
Λειτουργικά συστήματα	• Microsoft Windows, Linux
Προγράμματα/API	• Microsoft Office Suite (Word, Excel, PowerPoint, Access) • AutoCAD, Rhinoceros 3D • Eclipse IDE, Microsoft Visual Studio, Matlab • Apache HTTP Server, Apache Tomcat, MySQL, Microsoft SQL Server • Apache Jena Semantic Web Framework (API) • OpenRDF Sesame (API)
Άλλα	• XML, RDF/XML, OWL • SQL, SPARQL • Web Application Development • BPEL4WS

Ξένες γλώσσες	
Αγγλικά	Άριστη γνώση (Michigan Proficiency)

Δημοσιεύσεις

Περιοδικά

1. G.-A. Cheimariotis, Y. S. Chatzizisisc, V. G. Koutkias, K. Toutouzas, A. Giannopoulos, M. Riga, I. Chouvarda, A. P. Antoniadis, **C. Doulaverakis**, I. Tsamboulatidis, I. Kompatsiaris, G. D. Giannoglou, N. Maglaveras, "ARC-OCT: Automatic detection of lumen bordeR in intravasCular OCT images", Computer Methods and Programs in Biomedicine, Elsevier, Accepted Manuscript, Available online 16 August 2017. DOI: https://doi.org/10.1016/j.cmpb.2017.08.007

2. Yiannis S. Chatzizisis, Konstantinos Toutouzas, Andreas A. Giannopoulos, Maria Riga, Antonios P. Antoniadis, Yusuke Fujinom, Dimitrios Mitsouras, Vassilis G. Koutkias, Grigorios Cheimariotis, **Charalampos Doulaverakis**, Ioannis Tsampoulatidis, Ioanna Chouvarda, Ioannis Kompatsiaris, Sunao Nakamura, Frank J. Rybicki, Nicos Maglaveras, Dimitris Tousoulis, and George D. Giannoglou, "Association of global and local low endothelial shear stress with high-risk plaque using intracoronary 3D optical coherence tomography: Introduction of 'shear stress score' ", European Heart Journal – Cardiovascular Imaging, June 2016

3. **C. Doulaverakis**, G. Nikolaidis, A. Kleontas, I. Kompatsiaris, *"Panacea, a Semantic-enabled Drug Recommendations Discovery Framework"*, Journal of Biomedical Semantics, 2014, 5:13, DOI: 10.1186/2041-1480-5-13

4. Y. S. Chatzizisis, V. G. Koutkias, K. Toutouzas, A. Giannopoulos, I. Chouvarda, M. Riga, A. P. Antoniadis, G. Cheimariotis, **C. Doulaverakis**, I. Tsampoulatidis, K. Bouki, I. Kompatsiaris, C. Stefanadis, N. Maglaveras, G. D. Giannoglou, *"Clinical Validation of an Algorithm for Rapid and Accurate Automated Segmentation of Intracoronary Optical Coherence Tomography"*, International Journal of Cardiology, accepted for publication. DOI: 10.1016/j.ijcard.2014.01.071

5. **C. Doulaverakis**, I. Tsampoulatidis, A. P. Antoniadis, Y. S. Chatzizisis, A. Giannopoulos, I. Kompatsiaris, G. D. Giannoglou, *"IVUSAngio Tool: A Publicly Available Software for Fast and Accurate 3D Reconstruction of Coronary Arteries"*, Computers in Biology and Medicine, Volume 43, Issue 11, November 2013, pp. 1793-1803.

6. **C. Doulaverakis**, G. Nikolaidis, A. Kleontas, I. Kompatsiaris, *"GalenOWL: Ontology based drug recommendations discovery"*, Journal of Biomedical Semantics, 2012, 3:14, DOI:10.1186/2041-1480-3-14

7. A. Axenopoulos, **C. Doulaverakis**, N. Protogeros, P. Tahinakis, J. Mylonakis: *"The Safety Issue in a Web Travel Booking Services Scenario Based on Business Process Execution Language"*. Computer and Information Science 3(4): 53-59 (2010)

8. **C. Doulaverakis**, M. Papadogiorgaki, V. Mezaris, A. Mpillis, E. Parissi, A. Gounaris, I. Kompartsiaris, Y. S. Chatzizisis, G. D. Giannoglou, *"IVUS Image Processing and Semantic Analysis for Cardiovascular Diseases Risk Prediction"*, International Journal of Biomedical Engineering and Technology, Special Issue on Decision Support in Medicine, vol. 3, no. 3/4, pp. 349-374, 2010.

9. S. Vrochidis, **C. Doulaverakis**, A. Gounaris, E. Nidelkou, L. Makris. I. Kompatsiaris, *"A Hybrid Ontology and Visual-based Retrieval Model for Cultural Heritage Multimedia Collections"*, International Journal of Metadata, Semantics and Ontologies (IJMSO), Volume 3(3), pages 167-182, 2008.

Κεφάλαια βιβλίων

1. S. Dasiopoulou, **C. Doulaverakis**, V. Mezaris, I. Kompatsiaris, M.G.Strintzis, *"An Ontology-Based Framework for Semantic Image Analysis and Retrieval"*, in Semantic-Based Visual Information Retrieval, Yu-Jin ZHANG (Editor), Idea Group Inc., 2007.

Συνέδρια

1. **C. Doulaverakis**, V. Koutkias, G. Antoniou, I. Kompatsiaris, "Applying SPARQL-based inference and ontologies for modelling and execution of clinical practice guidelines: A case study on hypertension management", 8th International Workshop on Knowledge Representation for Health Care 2016, (KR4HC 2016), Munich, Germany, September 2, 2016, Lecture Notes in Computer Science, vol 10096.

2. **C. Doulaverakis**, S. Vrochidis, I. Kompatsiaris, "Exploiting visual similarities for ontology alignment", 7th International Conference on Knowledge Engineering and Ontology Development (KEOD 2015), Lisbon, Portugal, 12-14 November, 2015 (accepted for publication)

3. **C. Doulaverakis**, A. Tzotsos, I. Tsampoulatidis, N. Gerontidis, A. Argyridis, K. Karantzalos, I. Kompatsiaris, D. Argialas, *"Gnorasi: A Modular Knowledge-based Platform for Object-based Image Analysis"*, GEOBIA 2014, Thessaloniki, Greece, May 2014, accepted for publication.

4. G. Cheimariotis, V. Koutkias, I. Chouvarda, K. Toutouzas, Y.S. Chatzizisis, A. Giannopoulos, M. Riga, A. Antoniadis, **C. Doulaverakis**, I. Tsampoulatidis, I. Kompatsiaris, C. Stefanadis, G. Giannoglou and N. Maglaveras, *"A Framework for Automatic Detection of Lumen-Endothelium Border in Intracoronary OCT Image Sequences"*, MEDICON 2013, Sevilla, Spain, September 25-28, 2013.

5. **C. Doulaverakis**, G. Nikolaidis, A. Kleontas and I. Kompatsiaris, *"Panacea, a Semantic-enabled Drug Recommendations Discovery Framework"*, VDOS2013 workshop in conjunction with ICBO 2013, Montreal, Canada, July 8, 2013.

6. G. Hummel, M. Russ, P. Stütz, J. Soldatos, L. Rossi, T. Knape, Á. Utasi, L. Kovács, T. Szirányi, **C. Doulaverakis** and I. Kompatsiaris, *"Intelligent Multi Sensor Fusion System for Advanced Situation Awareness in Urban Environments"*, in Future Security - Security Research Conference, Bonn, Germany, September 4 – 6, 2012

7. K.P. Toutouzas, M. Riga, A. Giannopoulos, Y.S. Chatzizisis, A. Antoniadis, **C. Doulaverakis**, I. Tsampoulatidis, I. Kompatsiaris, C. Stefanadis, G.D. Giannoglou, *"Geometrically-correct 3D OCT: proof of concept, methodology and First-in-Man validation study"*, European Society of Cardiology Congress 2012 (ESC 2012), Munich, Germany, August 2012.

8. A. Giannopoulos, K. Toutouzas, M. Riga, Y.S. Chatzizisis, A. Antoniadis, **C. Doulaverakis**, I. Tsampoulatidis, I. Kompatsiaris, G.D. Giannoglou, C. Stefanadis, *"Plaques with increased lipid core and thin fibrous cap occur in coronary artery regions with low endothelial shear stress: a 3D optical coherence tomography pilot study in human"*, European Society of Cardiology Congress 2012 (ESC 2012), Munich, Germany, August 2012.

9. **C. Doulaverakis**, G. Nikolaidis, A. Kleontas and I. Kompatsiaris, *"GalenOWL: Ontology based drug recommendations discovery"*, in Vaccine and Drug Ontology in the Study of Mechanism and Effect (VDOSME 2012), Workshop of the 3rd international Conference on Biomedical Ontology (ICBO 2012), July 21, 2012, Graz, Austria.

10. **C. Doulaverakis**, N. Konstantinou, T. Knape, I. Kompatsiaris, J. Soldatos, *"An approach to Intelligent Information Fusion in Sensor Saturated Urban Environments"*, EISIC 2011, Athens, Greece, September 2011

11. Γ. Γιαννόγλου, Α. Αντωνιάδης, Ι. Χατζηζήσης, **Χ. Δουλαβεράκης**, Ι. Τσαμπουλατίδης, Α. Μπίλης, Ι. Κομπατσιάρης, *"Εφαρμογή Αυτοματοποιημένης Τρισδιάστατης Ανασύνθεσης Στεφανιαίων Αρτηριών στην Ανίχνευση Ευάλωτων Αθηρωματικών Πλακών"*, 30ο Πανελλήνιο Καρδιολογικό Συνέδριο, 29-31 Οκτωβρίου 2009, Αθήνα.

12. S. Vrochidis, **C. Doulaverakis**, L. Makris, A. Gounaris, E. Nidelkou, I. Kompatsiaris and M.G. Strintzis, *"Hybrid Ontology and Visual-based Retrieval for Cultural Heritage Multimedia Libraries"*, 14th International Conference of Image Analysis and Processing - Workshops, 10-13 September 2007, Modena, Italy.

13. S. Vrochidis, **C. Doulaverakis**, A. Gounaris, E. Nidelkou, L. Makris and I. Kompatsiaris, *"A Hybrid Ontology and Visual-based Retrieval Model for Cultural Heritage Multimedia Collections"*, 2nd International Conference on Metadata and Semantics Research, 11-12 Oct., Corfu, Greece, 2007.

14. J. Calic, P. Kramer, U. Naci, S. Vrochidis, S. Aksoy, Q. Zhang, J. Benois-Pineau, A. Saracoglu, **C. Doulaverakis**, R. Jarina, N. Campbell, V. Mezaris, I. Kompatsiaris, E. Spyrou, G. Koumoulos, Y. Avrithis, A. Dalkilic, A. Alatan, A. Hanjalic, E. Izquierdo, *"COST292 experimental framework for TRECVID 2006"*, 4th TRECVID Workshop, Gaithersburg, USA, November 2006.

15. **C. Doulaverakis**, E. Nidelkou, A. Gounaris, Y. Kompatsiaris, *"An Ontology and Content-Based Search Engine For Multimedia Retrieval"*, 10th East-European Conference on Advances in Databases and Information Systems, ADBIS 2006, Thessaloniki, Hellas, 3-7 September, 2006.

16. **C. Doulaverakis**, Y. Kompatsiaris, M.G. Strintzis, *"Ontology-Based Access to Multimedia Cultural Heritage Collections - The REACH Project"*, EUROCON 2005, Sava Center, Belgrade, Serbia & Montenegro, November 21-24, 2005.

17. V. Mezaris, **H. Doulaverakis**, S. Herrmann, B. Lehane, N. O'Connor, I. Kompatsiaris, W. Stechele, and M. G. Strintzis, *"An Extensible Modular Common Reference System for Content-based Information Retrieval, the SCHEMA Reference System"*, Proc. Fourth International Workshop on Content-Based Multimedia Indexing (CBMI05), Riga, Latvia, June 2005.

18. V. Mezaris, **H. Doulaverakis**, S. Herrmann, B. Lehane, N. O'Connor, I. Kompatsiaris, and M. G. Strintzis, *"The SCHEMA Reference System: An Extensible Modular System for Content-based Information Retrieval"*, Proc. Workshop on Image Analysis For Multimedia Interactive Services (WIAMIS), April 2005, Montreux, Switzerland.

19. A. Ukovich, G. Ramponi, **H. Doulaverakis**, and I. Kompatsiaris, *"Shredded document reconstruction using MPEG-7 standard descriptors"*, Proc. 4th IEEE Symposium on Signal Processing and Information Technology (ISSPIT 2004), December 2004, Rome, Italy.

20. V. Mezaris, **H. Doulaverakis**, R. Medina Beltran de Otalora, S. Herrmann, I. Kompatsiaris, and M. G. Strintzis, *"Combining multiple segmentation algorithms and the MPEG-7 eXperimentation Model in the Schema Reference System"*, Proc. 8th International Conference on Information Visualization (IV2004), July 2004, London, UK, pp. 253-258.

21. V. Mezaris, **H. Doulaverakis**, R. Medina Beltran de Otalora, S. Herrmann, I. Kompatsiaris, and M. G. Strintzis, *"A test-bed for region-based image retrieval using multiple segmentation algorithms and the MPEG-7 eXperimentation Model: The Schema Reference System"*, Proc. 3rd International Conference on Image and Video Retrieval (CIVR2004), July 2004, Dublin, Ireland, Springer LNCS vol. 3115, pp. 592-600.

22. **C. Doulaverakis**, V. Vagionitis, M. Zervakis and E. Petrakis, *"Adaptive Methods for Motion Characterization and Segmentation of MPEG Compressed Frame Sequence"*, Intern. Conference on Image Analysis and Recognition (ICIAR'2004), Porto, Portugal, Sept./Oct. 2004, Proc. Part I, Springer Verlag (LNCS 3211), pp. 310-317.