
Βιογραφικό Σημείωμα

Δουλάμης Νικόλαος

Νικόλαος Δουλάμης

I. Προσωπικά Στοιχεία

ΕΠΩΝΥΜΟ: ΔΟΥΛΑΜΗΣ
ΟΝΟΜΑ: ΝΙΚΟΛΑΟΣ
ΟΝΟΜΑ ΠΑΤΡΟΣ: ΔΗΜΗΤΡΙΟΣ
ΚΑΤΑΣΤΑΣΗ : ΕΓΓΑΜΟΣ ΜΕ ΔΥΟ ΠΑΙΔΙΑ
ΤΗΛΕΦΩΝΟ: 210- 6710340 – 69744 67013
EMAIL: ndoulam@cs.ntua.gr

II. Σπουδές

- 1996–2001: Τμήμα Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Αθήνα. Διδακτορικό Δίπλωμα Μηχανικού στο τομέα Τεχνολογίας Υπολογιστών και Πληροφορικής.
- 1990-1995: Τμήμα Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, Αθήνα. Δίπλωμα Ηλεκτρολόγου Μηχανικού. Βαθμός διπλώματος: **9.52/10 (άριστα, σειρά αποφοίτησης: 2^{ος} ανάμεσα σε όλους τους συμφοιτητές του, του ιδίου έτους εισαγωγής, 3^{ος} ανάμεσα όλους τους αποφοίτους του 1995 ανεξαρτήτου έτους εισαγωγής).**
- Τίτλος διπλωματικής εργασίας: «Μοντελοποίηση Πηγών Βίντεο MPEG και Μελέτη Μνήμης Πολυπλεξίας». (Επαινος Τεχνικού Επιμελητηρίου Ελλάδος, ΤΕΕ). Επιβλέπων Καθηγητής: Γ. Στασινόπουλος.
- 1987-1990: 5^ο Λύκειο Αιγάλεω. Βαθμός Απολυτηρίου: **19 & 7/10 (άριστα).**
- 1984-1987: 4^ο Γυμνάσιο Αιγάλεω. Βαθμός Απολυτηρίου: **19 & 12/14 (άριστα).**

III. Επαγγελματική Εμπειρία

- Επίκουρος Καθηγητής Εθνικού Μετσόβιου Πολυτεχνείου (ΕΜΠ), Δεκέμβριος 2013 έως σήμερα.**
Σχολή Αγρονόμων Τοπογράφων Μηχ.
- Επιστημονικός Συνεργάτης Τεχνολογικού Πανεπιστημίου Κύπρου (ΤΕΠΑΚ), Απρίλιος 2013- Δεκέμβριος 2013.**
Σχολή Ηλεκτρολόγων Μηχανικών, Μηχανικών Η/Υ και Πληροφορικής.
- Επισκέπτης Καθηγητής με βάση το Π.Δ. 407 στην βαθμίδα του Επίκουρου Καθηγητή, Εθνικό Μετσόβιο Πολυτεχνείο, Σεπτέμβριος 2007- Ιούνιος 2008**
Σχολή Αγρονόμων Τοπογράφων Μηχ.
- Επισκέπτης Καθηγητής με βάση το Π.Δ. 407 στην βαθμίδα του Λέκτορα, Εθνικό Μετσόβιο Πολυτεχνείο, Σεπτέμβριος 2005- Αύγουστος 2007**

Σχολή Αγρονόμων Τοπογράφων Μηχ.

- 5. Επισκέπτης Καθηγητής με βάση το Π.Δ. 407, Εθνικό Μετσόβιο Πολυτεχνείο, Σεπτέμβριος 2002-Φεβρουάριος 2004**
Σχολή Εφαρμοσμένων Μαθηματικών και Φυσικών Επιστημών.
- 6. Επισκέπτης Καθηγητής με βάση το Π.Δ. 407 στην βαθμίδα του Λέκτορα, Πανεπιστήμιο Θεσσαλίας Μάρτιος 2004- Αύγουστος 2005**
Πολυτεχνική Σχολή, Τμήμα Μηχανικών Τηλεπικοινωνιών και Πληροφορικής.
- 7. Επιστημονικός Συνεργάτης, ΤΕΙ Αθηνών, Σεπτέμβριος 2004- Μάρτιος 2013**
Τμήμα Πληροφορικής.
- 8. Επιστημονικός Συνεργάτης, ΤΕΙ Αθηνών, Σεπτέμβριος 2002- Αύγουστος 2004**
Τμήμα Ηλεκτρονικής.
- 9. Κύριος Ερευνητής Ερευνητικού Πανεπιστημιακού Ινστιτούτου Συστημάτων Επικοινωνιών και Πληροφορικής, Μάρτιος 2003-Μάρτιος 2013.**
- 10. Ερευνητής Ερευνητικού Πανεπιστημιακού Ινστιτούτου Συστημάτων Επικοινωνιών και Πληροφορικής, Φεβρουάριος 1996-Δεκέμβριος 2000.**
- 11. Στρατιωτική Θητεία, Ειδικότητα Αναλυτής Προγραμματιστής, Πολεμική Αεροπορία, Μάρτιος 2001 έως Σεπτέμβριος 2002.**
- 12. Προγραμματιστής στην Εταιρεία Datamed, Σεπτέμβριος 2002 έως Μάρτιος 2003.**

IV. Διδακτική εμπειρία

IV.1 Αυτοδύναμη Διδακτική Εμπειρία ως Μέλος ΔΕΠ του ΕΜΠ

A) Προπτυχιακά Μαθήματα

Ως Μέλος ΔΕΠ Εθνικού Μετσόβιου Πολυτεχνείου ο κ. Νικόλαος Δουλάμης έχει διδάσκει τα κάτωθι μαθήματα

- α) Εισαγωγή στην Πληροφορική
- β) Προγραμματιστικές Τεχνικές
- γ) Βάσεις Δεδομένων
- δ) Διασυνδεδεμένα Συστήματα – Μάθημα Θέμα
- ε) Στοιχεία Επεξεργασίας Σημάτων

και έχει συμματάσχει στα κάτωθι μαθήματα

- στ) Φωτογραμμετρία ΙΙΙ

B) Μεταπτυχιακά Μαθήματα

Ως Μέλος ΔΕΠ Εθνικού Μετσόβιου Πολυτεχνείου ο κ. Νικόλαος Δουλάμης έχει διδάσκει τα κάτωθι μαθήματα

- α) Χωρικές Βάσεις Δεδομένων (Ένα Εξάμηνο του Μεταπτυχιακού Προγράμματος Σπουδών Γεωπληροφορικής της Σχολής Αγρονόμων, Τοπογράφων Μηχανικών του ΕΜΠ
- β) Τεχνολογία Πολυμέσων, 2013-έως σήμερα, του Διατμηματικού Πρόγραμμα Μεταπτυχιακών Σπουδών (ΔΠΜΣ) «Τεχνο-οικονομικά Συστήματα» της Σχολής Ηλεκτρολόγων Μηχανικών και Μηχανικών

Υπολογιστών (ΗΜΜΥ) του Εθνικού Μετσόβιου Πολυτεχνείου (ΕΜΠ) και του Τμήματος Βιομηχανικής Διοίκησης και Τεχνολογίας του Πανεπιστημίου Πειραιώς.

IV.2 Αυτοδύναμη Διδακτική Εμπειρία-Ανώτατα Εκπαιδευτικά Ιδρύματα (ΑΕΙ) ως Επιστημονικός συνεργάτης του ΤΕΠΑΚ

1. Σεπτέμβριος 2013-Δεκέμβριος 2013, διδασκαλία του μαθήματος «Γραφικά Υπολογιστών» της Σχολής Ηλεκτρολόγων Μηχανικών, Μηχανικών Η/Υ και Πληροφορικής του Τεχνολογικού Πανεπιστημίου Κύπρου.

IV.3 Αυτοδύναμη Διδακτική Εμπειρία-Ανώτατα Εκπαιδευτικά Ιδρύματα (ΑΕΙ) ως 407 Διδάσκων ή επιστημονικός συνεργάτης

2. Σεπτέμβριος 2007-Ιούνιος 2008, Διδάσκων με βάση το Π.Δ. 407, στην βαθμίδα του Επίκουρου, Εθνικό Μετσόβιο Πολυτεχνείο, Σχολή Αγρονόμων Τοπογράφων Μηχανικών. Αυτοδύναμη διδασκαλία των μαθημάτων
 - a. *Εφαρμογές Διασυνδεδεμένων Ψηφιακών Συστημάτων*
 - b. *Στοιχεία Επεξεργασίας Σημάτων*
3. Σεπτέμβριος 2005-Αύγουστος 2007, Διδάσκων με βάση το Π.Δ. 407, στην βαθμίδα του Λέκτορα, Εθνικό Μετσόβιο Πολυτεχνείο, Σχολή Αγρονόμων Τοπογράφων Μηχανικών. Αυτοδύναμη διδασκαλία των μαθημάτων
 - a. *Εφαρμογές Διασυνδεδεμένων Ψηφιακών Συστημάτων*
 - b. *Στοιχεία Επεξεργασίας Σημάτων*
4. Μάρτιος 2004-Αύγουστος 2005, Διδάσκων με βάση το Π.Δ. 407, στην βαθμίδα του Λέκτορα, Πανεπιστήμιο Θεσσαλίας, Πολυτεχνική Σχολή, Τμήμα Μηχανικών Τηλεπικοινωνιών και Πληροφορικής. Αυτοδύναμη διδασκαλία των μαθημάτων
 - a. *Οργάνωση Πολυμεσικών Βάσεων Δεδομένων*
 - b. *Θεωρία Πληροφοριών και Κωδίκων*
 - c. *Ψηφιακή Επεξεργασία Πολυμέσων*
 - d. *Θεωρία Σημάτων και Συστημάτων I*
5. Σεπτέμβριος 2002-Φεβρουάριος 2004: Διδάσκων με βάση το Π.Δ. 407, στην βαθμίδα του Λέκτορα, Εθνικό Μετσόβιο Πολυτεχνείο, Σχολή Εφαρμοσμένων Μαθηματικών και Φυσικών Επιστημών (ΣΕΜΦΕ). Αυτοδύναμη διδασκαλία των μαθημάτων
 - a. *Σχεδίαση και Ανάπτυξη Εφαρμογών Πληροφορικής*
 - b. *Λογισμικό για τα Μαθηματικά και την Φυσική*
6. Σεπτέμβριος 2003-Σήμερα, Επιστημονικός Συνεργάτης Πλήρους Απασχόλησης, Σχολή Τεχνολογικών Εφαρμογών, Ανώτατου Εκπαιδευτικού Ιδρύματος Αθηνών, Αυτοδύναμη διδασκαλία των μαθημάτων
 - a. *Μικρο-Υπολογιστές I (2003-2005)*
 - b. *Μικρο-Υπολογιστές II (2003-2005)*
 - c. *Ειδικά Θέματα Λειτουργικών Συστημάτων (2006-Σήμερα)*
 - d. *Πληροφορική (2004-Σήμερα)*

IV.4 Αυτοδύναμη Διδακτική Εμπειρία - Μεταπτυχιακό Πρόγραμμα Σπουδών ΕΜΠ, «Τεχνο-Οικονομικά Συστήματα»

7. Μάρτιος 2004-Σήμερα, Μεταπτυχιακό Πρόγραμμα Σπουδών, Εθνικό Μετσόβιο Πολυτεχνείο, «Τεχνο-Οικονομικά Συστήματα». Αυτοδύναμη διδασκαλία των μαθημάτων

a. Τεχνολογία Πολυμέσων

IV.5 Επικουρική Διδακτική Εμπειρία

1. 1996-2000: Σχολή Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο. Βοηθητική διδασκαλία των μαθημάτων

a. Επεξεργασία και Ανάλυση Εικόνων και Βίντεο (7^ο Εξάμηνο).

b. Τεχνολογία Εικόνων και Συστήματα Πολυμέσων (8^ο Εξάμηνο)

V. Ακαδημαϊκές Διακρίσεις

1. Ευρωπαϊκή Ένωση, 2008

Επιλογή με βάση το βιογραφικό σημείωμα ως ένας ανάμεσα από τους καλύτερους νέους ερευνητές που εργάζονται στην Ευρωπαϊκή Ένωση σε όλους τους επιστημονικούς τομείς (θετικούς, Ιατρικούς, θεωρητικούς)

Η επιλογή έγινε στο πλαίσιο της προκήρυξης IDEA της Ευρωπαϊκής Ένωσης στην πρόταση με τίτλο Multiflows: Visual Supervision of Multiple Workflows of Events in Highly Noisy Environments

2. Βραβείο Καλύτερου Άρθρου

K. Christodouloupoulos, N. Doulamis, E. Varvarigos, Joint Communication and Computation Scheduling in Grids,” *8th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2008)*, pp. 17-24, Lyon, France, May 2008. **(Best Paper Award)**.

Marinos Ioannides, Andreas Hadjiprocopis, Nikolaos Doulamis, Anastasios Doulamis, Eftychios Protopapadakis, Kostas Makantasis, Pedro Santos, Dieter Fellner, Andre Stork, Olivier Balet, Martine J. Julien, Guenther Weinlinger, Paul S.Johnson, Michael Klein, Dieter Fritsch, " Reconstruction Using Multi-Images Available Under Open Access," *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, (1):169–174, Strasbourg, 2-6 September 2013. **Best Paper Award**.

Z. Kandylakis, K. Karantzalos, A. Doulamis, N. Doulamis, “Multiple Object Tracking with Background Estimation in Hyperspectral Video Sequences,” *IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Tokyo, Japan, 2-5 June, 2015. **(Best Paper Award)**.

3. Τεχνικό Επιμελητήριο Ελλάδος

α) «Αριστούχου φοιτητή» *συνεχής βράβευσης για 5 χρόνια*.

β) «Έπαινος διπλωματικής εργασίας»

γ) «Ειδικό βραβείο πρώτου μηχανικού φοιτητή στην Ελλάδα ανάμεσα σε όλους του μηχανικούς του έτους του ανεξαρτήτου ειδικότητας»

4. Εθνικό Ίδρυμα Υποτροφιών (IKY)

«Υποτροφία ως ενός εκ των τριών πρώτων φοιτητών της Σχολής Ηλεκτρολόγων Μηχανικών & Μηχανικών Υπολογιστών στο έτος του», *συνεχής βράβευσης για 5 χρόνια*.

5. Ίδρυμα Διαμαντή Πατέρα

Υποτροφία για τις Ακαδημαϊκές του επιδόσεις

6. Εθνικό Μετσόβιο Πολυτεχνείο

«Μετάλλιο αποφοίτησης του Ε.Μ.Π. ως ένας από τρεις πρώτους αποφοιτήσαντες ηλεκτρολόγους μηχανικούς του ΕΜΠ»

7. Ίδρυμα Υποτροφιών Μποδοσάκη

«Υποτροφία για την εκπόνηση διδακτορικού». Συνεχής υποτροφία για τρία χρόνια (ανώτατο χρονικό όριο υποτροφιών). *Πρώτος υπότροφος ανάμεσα σε όλους του αιτούντες για όλες τις σχολές της Ελλάδος.*

8. Ευγενίδειο Ίδρυμα

Υποτροφία καλύτερου νεοεισαχθέντος μεταπτυχιακού φοιτητή στο Ε.Μ.Π.

9. Θωμαϊδείο Ίδρυμα

- α) Υποτροφία για τις Ακαδημαϊκές του επιδόσεις
- β) «Βράβευση για την εργασία [Π11]»

10. Ερευνητικό Πανεπιστημιακό Ινστιτούτο Συστημάτων Επικοινωνιών & Υπολογιστών

«1^ο Βραβείο μεταπτυχιακών σπουδών στο ΕΜΠ»

11. Who is Who in Engineering

- α) Επιλογή από το Who's Who
- β) Επιλογή ως Editor

12. Oxford 2000 Best Worlds Intellectuals

Επιλογή για τις Ακαδημαϊκές του επιδόσεις

13. Υπουργείο Εθνικής Παιδείας και Θρησκευμάτων

- α) «Πρώτου μαθητή του Γυμνασίου/Λυκείου», *συνεχής βράβευσης για 6 χρόνια.*
- β) «Αριστούχου μαθητή», *συνεχής βράβευσης για 6 χρόνια.*

14. Αγροτική Τράπεζα της Ελλάδος

«Πρώτου Μαθητή Γυμνασίου», *συνεχής Βράβευσης για 3 χρόνια.*

VI. Συμμετοχή σε Έργα E&A

A) Επιστημονικός Υπεύθυνος

- 1) 2016-2019: “WATERSPY: High intensive, portable photonic device for pervasive water quality analysis”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση-H2020.
- 2) 2014-2015 3Δ ΟΡΩ (12 Μήνες) «Διάχυτη Τρισδιάστατη (3Δ) Υπολογιστική Όραση για την Αύξηση της Αποτελεσματικότητας της 3Δ Ψηφιοποίησης» ερευνητικό πρόγραμμα από την προκήρυξη ΠΑΒΕΤ της Γ.Γ.Ε.Τ.

B) Κύριος Ερευνητής

- 3) 2016- 2020, “Terpsichore: Transforming Intangible Folkloric Performing Arts into Tangible Choreographic Digital Objects,” ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση-H2020 [Μέλος της Ομάδας Συντονισμού του Έργου].
- 4) 2015-2019 " Inachus : Technological and Methodological Solutions for Integrated Wide Area Situation Awareness and Survivor Localisation to Support Search and Rescue Teams" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7.

- 5) 2014-2018 "ZoneSec: Towards a EU framework for the security of Widezones" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7.
- 6) 2014-2017 « VIMSEN VIRTUAL Microgrids for Smart Energy Networks» ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7.
- 7) 2013-2016 " Robo Spect : ROBOTic System with Intelligent Vision and Control for Tunnel Structural inSPECTion and Evaluation" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7.
- 8) 2013-2017 4D CH World "Four Dimensional Cultural Heritage World" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7 [Συντονιστής του Έργου].
- 9) 2013-2017 ITN-DCH "Initially Trained Network for Digital Cultural Heritage" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση - FP7 [Συ-συντονιστής του έργου, Μέλος Ερευνητικής Ομάδας].
- 10) 2013-2017 "eVacuate A holistic scenario –independent, situation-awareness and guidance System for sustaining the Active Evacuation Route for large Crowds" ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση – FP7.
- 11) 2014-2015 5DMultplis "5Dimensional Multipurpose Land Management Systems" ερευνητικό πρόγραμμα από την προκήρυξη Ελληνο Ισραηλτική Συνεργασία της Γ.Γ.Ε.Τ [Μέλος Ερευνητικής Ομάδας].
- 12) 2013-2015 Ιάσων "Κοινή Συνεργατική Ολοκληρωμένη Χρήση Δορυφόρων, Τηλεπισκόπησης και Πλοήγησης για Συνοριακή Φύλαξη» ερευνητικό πρόγραμμα από την προκήρυξη Συνεργασία της Γ.Γ.Ε.Τ.
- 13) 2010-2013, "SARACEN: Socially Aware, collaboRative, scAlable Coding mEdia distributioN," ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση – FP7
- 14) 2009-2011, "ISISEMD, Intelligent System for independent living and self-care of seniors with cognitive problems or mild dementia," ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση – FP7.
- 15) 2008-2011 "SCOVIS, "Self Configurable Cognitive Vision Supervision", ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση – FP7
- 16) 2008-2012," My-e-Director 2012 Real-Time Context-Aware and Personalized Media Streaming," ερευνητικό πρόγραμμα από την Ευρωπαϊκή Ένωση – FP7.
- 17) 2011-2013: «Η-ΠΑΡΚ : Αξιοποίηση τεχνολογιών αιχμής στην πληρωμή χρήσης και διαχείριση δημόσιων πάρκινγκ» ερευνητικό πρόγραμμα από το Πρόγραμμα Διασυνοριακής Συνεργασίας "Ελλάδα - Κύπρος" 2007-2013 και από εθνικούς πόρους
- 18) 2011-2014: «ΒΙΩΠΟΛΙΣ : Μακροπρόθεσμη Διαφύλαξη Περιεχομένου Χρηστών -Βιώματα Πολιτισμού» ερευνητικό πρόγραμμα από την προκήρυξη Συνεργασία της Γ.Γ.Ε.Τ.
- 19) 2007-2009: "COSMOS "An Advanced Scietific Repositorty for Science Teaching and Learning", ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση-econtentplus.
- 20) 2004-2007: "POLYMNIA: Personalized Leisure and Entertainment Over Cross Media Intelligent Platforms (STREP)", ερευνητικό πρόγραμμα 6^ο πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση, (Μέλος της ομάδας συντονισμού όλου του έργου).

- 21) 2003-2006: “ACE: Antenna Center of Excellence (NOE)”, ερευνητικό πρόγραμμα 6^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση.
- 22) 2003-2005: “DELOS, Network of Excellence (NOE): Digital Libraries”, ερευνητικό πρόγραμμα 6^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση.
- 23) 2002-2003: “GRIDLAB: A Grid Application Toolkit and Testbed (IST)” ερευνητικό πρόγραμμα 5^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση.
- 24) 2002-2003: “GRIA, Grid Resources for Industrial Applications (IST)” ερευνητικό πρόγραμμα 5^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση,
- 25) 2001-2004: “OLYMPIC, Olympics Multimedia Personalised for the Internet Community (IST)” ερευνητικό πρόγραμμα 5^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση.
- 26) 2004-2007: “ΠΥΘΟΓΟΡΑΣ-II: Ανάπτυξη Τεχνικών Διαχείρισης, Οργάνωσης και Μετάδοσης Πολυμεσικών Δεδομένων και Υπηρεσιών”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από το ΕΠΕΑΕΚ.
- 27) 2004-Σήμερα: “ΠΕΝΕΔ2003: Ανάπτυξη και Παροχή Πολυμεσικών Υπηρεσιών σε Ασύρματα Δίκτυα”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 28) 2006-2008: “ΗΡΑ: Ολοκληρωμένη Πλατφόρμα για Σχεδιασμό και Παροχή Υπηρεσιών Κινητής Τηλεφωνίας,”ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 29) 2006-2008: “ΠΙΔΑΛΙΟΝ: Πολυμεσική Ανάκτηση Δεδομένων στο Διαδίκτυο με Χρήση Πλατφόρμας Επαναδιαμορφωμένων Πρακτόρων”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 30) 2007: “GRIDAPPS: Βέλτιστη και Δίκαιη Χρονο-Δρμολόγηση Εργασιών σε Δομές Πλέγματος με Εγγυημένη Ποιότητα Υπηρεσίας”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.

B) Ερευνητής

- 31) 2006-Σήμερα: “ΑΦΡΟΔΙΤΗ: Τρισδιάτατη Φωτογραμμετρική Αναπαράσταση σε Βυζαντινούς Ναούς με μεθόδους Εξατομικευμένης Περιήγησης,” ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 32) 2000-2002: “ΠΑΝΟΡΑΜΑ: An Intelligent System for Retrieval and Mining of Audiovisual Material” ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 33) 1999-2001: “ΠΕΝΕΔ 1999: Εκτίμηση Βιολογικής Ποιότητας Εδαφών με Νέες Τεχνικές Υπολογιστικής Όρασης”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 34) 1998-2000: “Δημιουργία Εγκατάσταση και Λειτουργία Τράπεζας Πληροφοριών Ειδικής Αγωγής Στο ΥΠΕΠΘ”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από το ΕΠΕΑΕΚ.
- 35) 1997-1999: “MODULATES: Multimedia Organisation for Developing the Understanding and Learning of Advanced Technology Inpean Schools”, ερευνητικό πρόγραμμα 4^{ου} πλαισίου στήριξης, χρηματοδοτούμενο από την Ευρωπαϊκή Ένωση,

- 36) 1996-1998: “ΠΑΒΕ: Ολοκληρωμένο Σύστημα Διαχείρισης Εξετάσεων Νοσοκομείου”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.
- 37) 1995-1997: “ΝΙΚΑ: Γενικευμένο Σύστημα Επεξεργασίας Και Διαχείρισης Ιατρικής Εικόνας”, ερευνητικό πρόγραμμα, χρηματοδοτούμενο από την Γενική Γραμματεία Έρευνας και Τεχνολογίας.

VII. Μέλος Επιτροπών Επιστημονικών Περιοδικών

1. 2017: Οργανωτής Ειδικού Τεύχους (Special Issue Editor) στο Περιοδικό, Τίτλος “Recent Developments in Deep Learning for Engineering Applications,” Computational Intelligence and Neuroscience, Hidawi Press.
2. 2016: Οργανωτής Ειδικού Τεύχους (Special Issue Editor) στο Περιοδικό Multimedia Tools and Applications, Springer-Verlag Press, Τίτλος “Analysis and Retrieval of Events/Actions and Workflows in Video Streams”.
3. 2014: Οργανωτής Ειδικού Τεύχους (Special Issue Editor) στο Περιοδικό Multimedia Tools and Applications, Springer-Verlag Press, Τίτλος “Event-based video analysis/retrieval”.
4. 2013-Σήμερα: Μέλος της Επιτροπής του Περιοδικού, International Journal of Heritage in Digital Era, Multiscience press, UK.
5. 2012: Οργανωτής Ειδικού Τεύχους-Special Issue Editor, “Machine Learning Strategies for Visual Events Recognition” στο περιοδικό Advances in Multimedia, Hindawi Publishing Corporation.
6. 2011-Σήμερα: Μέλος της Επιτροπής του Περιοδικού, International Journal of Interactive Worlds, IBIMA Publishing, USA.
7. 2008: Οργανωτής Ειδικού Τεύχους (Special Issue Editor) στο Περιοδικό Multimedia Tools and Applications, Springer-Verlag Press, Τίτλος “Analysis and retrieval of events/actions and workflows in video streams”.

VIII. Οργάνωση / Διαχείριση Συνεδρίων

VIII.1 Οργανωτής Διεθνών Συνεδρίων/Ειδικών Συνεδρίων

1. 2017: IEEE VS-Games, IEEE International Conference on Games and Virtual World for Serious Applications, Technically Sponsored by the IEEE Computer Society, Αθήνα, 6-8 Σεπτεμβρίου 2017.
2. 2017: Special Session on Computer Vision, Imaging and Computer Graphics for Cultural Applications - CVICG4CULT 2017, Porto, Portugal.
3. 2017: ACM Pervasive Intelligence in Engineering Workshop in conjunction with ACM Pervasive Technologies Related to Assitive Environments (PETRA), Rhodes, Greece.
4. 2016: RBG and Spectral Imaging for Civil/Survey Engineering, Cultural, Environmental, Industrial Applications under the VISAPP Conference, Rome, Italy.

5. 2016: Spectral Imaging Processing and Data Analytics for life quality improvement in public spaces and urban environments (SIPDA) ACM PETRA Pervasive Technologies Related to Assistive Environment.
6. 2015: International Workshop on 3D Events Analysis and Retrieval in Imagery Streams In Conjunction with VISAGRAPP and VISAPP Conference Berlin 11-14 March 2015.
7. 2013: Οργανωτής Συνεδρίου σε συνεργασία με το συνέδριο στην περιοχή των πολυμέσων, ACM Multimedia, Barcelona, Spain, “*ARTEMIS2013* Analysis and Retrieval of Tracked Events and Motion in Imagery Stream ”.
8. 2013: Ειδική Ενότητα στο συνέδριο International Conference on Visual Computing, Rethymnon, Greece.
9. 2012: Οργανωτής συνεδρίου "Workflow and Event Analysis for industrial Environments manipulation through Multi-agent Systems"σε συνεργασία με το 3rd International Conference on Agents and 2012, Ρώμη Ιταλία.
10. 2012: Οργανωτής συνεδρίου "3rd IEEE ARTEMIS International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams” σε συνεργασία με το European Conference on Computer Vision (ECCV) 2012, Φλωρεντία Ιταλία, 2012.
11. 2012: Οργανωτής του συνεδρίου “Intelligent Tools and Methods for Web Media Analysis” σε συνεργασία με το 11th WSEAS International Conference on APPLICATIONS OF COMPUTER ENGINEERING (ACE '12), Vouliagmeni, Athens, March 2012.
12. 2011: Οργανωτής συνεδρίου στο "International Conference on Agents and Artificial Intelligence" Rome Italy.
13. 2011: Μέλος της Οργανωτικής Επιτροπής του Συνεδρίου 3rd IEEE International Conference on Games and Virtual World for Serious Applications, Technically Sponsored by the IEEE Computer Society, Αθήνα, 4-6 Μαΐου 2011.
14. 2011: Οργανωτής ειδικού συνεδρίου με τίτλο «ACM Workshop on Social and Behavioural Networked Media Access (SBNMA'11)» στο διεθνές συνέδριο ACM Multimedia, Scottsdale, Arizona, USA.
15. 2011: Οργανωτής του συνεδρίου “2nd IEEE ARTEMIS International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Streams” σε συνεργασία με το IEEE International Conference on Computer Vision (ICCV) Βαρκελώνη Ισπανία, Νοέμβριος 2011
16. 2010 Workshop chairman of the Eventanalysis 2010 Workshop in conjunction with ACM PETRA (Pervasive Technologies Related to Assistive Environment)
17. 2010: Οργανωτής (General Chairman) του ACM ARTEMIS Workshop in conjunction with ACM Multimedia, Florence, Italy

18. 2009: Οργανωτής Ειδικής Συνεδρίας με τίτλο «Cognitive/ Context Aware Video Analysis, Description and Streaming» στο International Workshop on Interactive Multimedia Services WIAMIS, London, UK.
19. 2009: Οργανωτής Ειδικής Συνεδρίας στο διεθνές συνέδριο IEEE International Conference on Systems, Signals and Image Processing με τίτλο «Computer Vision Algorithms using Intelligent Agents», Χαλκίδα, 2009
20. 2009: Οργανωτής διεθνούς ACM Συνεδρίου σε συνεργασία με το ACM PETRA Pervasive Technologies Related to Assistive Environment,” EVENTANALYSIS2009, Multimedia Event Analysis for Assistive Environments
21. 2009: Οργανωτής Ειδικής Συνεδρίας με θέμα «Intelligent Tools and Methods for Multimedia Annotation» στο International Conference on Artificial Neural Network, Limassol, Cyprus.
22. 2009: Οργανωτής Ειδικής Συνεδρίας στο International Conference on Artificial Neural Networks (ICANN) με τίτλο «Intelligent Tools and Methods for Multimedia Annotation» που έ γινε στην Λεμεσό 2009.
23. 2008: Οργανωτής Συνεδρίου σε συνεργασία με το 1^ο στην κατάταξη συνέδριο στην περιοχή των πολυμέσων, ACM Multimedia, Vancouver, Canada, “*AREA2008, Analysis and Retrieval of Events/Actions and Workflows in Video Streams*”.
24. 2006: Οργανωτής Special Session, International Conference on Artificial Neural Networks (ICANN), “Bridging the semantic gap in Multimedia: machine learning approaches” 2006 Athens, Greece.
25. 2006: Οργανωτής Ειδικής Ενότητας στο συνέδριο Information Society Technology Mobile Summit, επιχορηγούμενο από την Ευρωπαϊκή Ένωση, Μύκονος.
26. 2005: Οργανωτής Special Session στο συνέδριο «European Workshop on Image Analysis for Interactive Multimedia Services» Montoux Ελβετία.
27. 2004: Οργάνωση Ειδικής Ενότητας «Content Understanding & Knowledge Modelling in Multimedia Databases» στο Συνέδριο EURASIP European Signal Processing Conference (EUSIPCO), στην Βιέννη, Αυστρίας.

VIII.2 Μέλος Επιστημονικών Επιτροπών Συνεδρίων

1. 2017: IEEE ChaLearn Workshop on Explainable Computer Vision Multimedia and Job Candidate Screening Coopetition in conjunction with IEEE CVPR.
2. 2017: 5th IEEE International Workshop on Smart City and Ubiquitous Computing Applications SCUCA 2017, in Conjunction with 22nd IEEE Symposium on Computers and Communications
3. 2017:
4. 2017: 2nd International Conference on Artificial Intelligence and Robots

5. 2017: 4th annual International Conference on Information Technology and Applications, May 26th-28th, Guangzhou, Guangdong, China.
6. 2017: 3rd Annual International Conference on Modern Education and Social Science, April 21-23, 2017, Nanjing, China.
7. 2017: International Conference on Economics, Management Engineering and Marketing, October 20th-22nd, Xiamen, China.
8. 2017: International Conference on Computer Science and Artificial Intelligence. Suzhou, China.
9. 2017: International Conference on Mechanics, Civil Engineering and Building Material, Nanjing, China.
10. 2017: The second International Conference on Internet of Things, Data and Cloud Computing (ICC 2017) will be held in Cambridge city, Churchill College. University of Cambridge, United Kingdom. 22-23 March 2017.
11. 2016: IADIS Applied Computing, Mannheim, Germany.
12. 2016 ChaLearn at European Conference of Computer Vision (ECCV), October Amsterdam.
13. 2016: ChaLearn at IEEE International Conference on Computer Vision Pattern Recognition (CVPR), Las Vegas.
14. 2016: IEEE International Conference on Pattern Recognition, Cancun, Mexico.
15. 2016: Face Analysis Workshop Collaboration, Computer Vision Pattern Analysis (CVPR), Las Vegas
16. 2015: Πρόεδρος Ειδικής Ενότητας, «Spectral Imaging Processing and Analysis for Civil, Environmental, Engineering and Industrial Applications» του International Conference on Visual Computing, Las Vegas, USA.
17. 2015: IADIS Applied Computing, Dublin, Ireland.
18. 2015: Workshop on Human Centered Event Understanding from Multimedia (HuEvent14) is co-located with ACM Multimedia 2014, November 3-7, 2014 Orlando, Florida, USA.
19. 2015: 2nd ACM International Workshop on Human-centered Event Understanding from Multimedia (HuEvent'15) at the 23rd ACM Multimedia Conf., 26-30 October 2015, Brisbane, Australia.
20. 2014: Μέλος της Επιτροπής τους ειδικού συνεδρίου ICT-based Analysis and Modeling of Intangible Cultural Heritage –του VISAPP Lisboa, Portugal.
21. 2014: International Conference on Digital Cultural Heritage, Euromed, Limassol, Cyprus.
22. 2014: Applied Computing, Lisboa, Portugal.
23. 2014: Special Session Smart Energy Grid: Theory, ICT Technologies and Novel Business Models of the IEEE CAMAD Conference, Athens.
24. 2013: Applied Computing, Fort Worth, Texas, USA.
25. 2012: IEEE International Conference on Pattern Recognition, Tsukuba Science City, Japan.
26. 2012: Applied Computing, Madrid, Spain.

- 27.** 2012: Πρόεδρος Προγράμματος, International Conference on Digital Cultural Heritage, Euromed, Limassol, Cyprus.
- 28.** 2012: The Second International Conference on Advances in Information Mining and Management, October 21 - 26, Venice, Italy.
- 29.** 2011: The First International Conference on Advances in Information Mining and Management, Barcelona, Spain.
- 30.** 2011: International Conference EURASIP European Signal Processing (EUSIPCO), Barcelona, Spain.
- 31.** 2011: Applied Computing Conference, Rio Janeiro, Brazil.
- 32.** 2010: International Conference EURASIP European Signal Processing (EUSIPCO), Aalborg, Denmark.
- 33.** 2010: International Conference on Digital Cultural Heritage, Euromed, Limassol, Cyprus.
- 34.** 2010: Applied Computing Conference, Timisoara, Romania.
- 35.** 2010: International Workshop on Social, Adaptive and Personalized Multimedia Interaction and Access (SAPMIA 2010), Florence, Italy.
- 36.** 2010: The 1st International Conference on Sensor Networks Applications, Experimentation and Logistics 24-25 September 2009 - Athens, Greece.
- 37.** 2010: 3rd International Conference on Image and Signal Processing (CISP), China
- 38.** 2010: 3rd International Conference on BioMedical Engineering and Informatics (BMEI), China.
- 39.** 2009: Applied Computing Conference, Rome, Italy.
- 40.** 2009: International Conference on Computer Engineering and Systems, Cairo, Egypt.
- 41.** 2009: 8th International Conference on Computer Information Systems and Industrial Management Applications December 09-11, Coimbatore, India.
- 42.** 2009: 17th International Conference EURASIP European Signal Processing (EUSIPCO), Glasgow, Scotland.
- 43.** 2008: IEEE International Conference on Pattern Recognition (ICPR), Ορλάντο, ΗΠΑ.
- 44.** 2008: 10th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08) με τίτλο «Advanced Annotation Tools and Methods» που έγινε στην Κέρκυρα 2008.
- 45.** 2008: Μέλος της Τεχνικής Επιτροπής του EURASIP, European Signal Processing Conference, EUSIPCO 2008, Λωζάνη, Ελβετία.
- 46.** 2007: EURASIP, European Signal Processing Conference, EUSIPCO 2007, Poznan, Πολωνία.
- 47.** 2006: International Conference on Computer Engineering and Systems, USA.
- 48.** 2004: Πρόεδρος Ενότητας στο Συνέδριο Image Analysis for Interactive Multimedia Services (WIAMIS04), Λισαβόνα, Πορτογαλία.

49. 2001, Πρόεδρος της Τεχνικής Επιτροπής του «International conference on Very Low Bit Rate Video Coding, VLBV» Αθήνα, Οκτώβριος.
50. 1999: Συμμετοχή ως βοηθός στο συνέδριο «IEEE International Conference on Computer Vision ICCV'99», Κερκυρα, Ελλάδα.
51. 1998: Συμμετοχή στην οργάνωση του συνεδρίου «Workshop on Artificial Neural Networks and Integrated Applications Systems», Αθήνα, Απρίλιος.
52. 1997: Συμμετοχή στην οργάνωση του συνεδρίου «Workshop on Applications and Perspectives of Neural Networks Technology in Greece and the Broader Balkan Area» Αθήνα, Φεβρουάριος.

IX. Κριτής σε Διεθνή Επιστημονικά Περιοδικά, Μέλος Επιτροπών Συνεδρίων

IX.1 Επιστημονικά Περιοδικά (ενδεικτικά)

1. IEEE Communication letters
2. IEEE Trans. on Multimedia
3. IEEE Multimedia Magazine
4. IEEE Trans. on Image Processing
5. IEEE Trans. on Circuits & Systems for Video Technology
6. Computer Vision Image Understanding
7. Data and Knowledge Engineering, Elsevier Press
8. IEEE Trans. on Neural Networks
9. ACM Computer Surveys
10. SPIE Journal of Electronic Imaging
11. Engineering Journal, Elsevier Press
12. Pattern Recognition Elsevier Press
13. Remote Sensing MDPI Press
14. Sensors MDPI Press
15. International Journal of Neural Systems, IOS Press
16. Journal of Parallel and Distributed Computing, Elsevier Press
17. IEEE Trans. On Geoscience and Remote Sensing
18. Multimedia Tools and Applications, Springer Press
19. Signal Processing Journal, EURASIP, Elsevier press
20. Journal of Integrated Computer-aided Engineering, IOS Press
21. Computer Network Journal, Elsevier Press
22. Kluwer's Clustering Computing Journal.
23. Applied Artificial Intelligence
24. Image and Vision Computing

25. International Journal of Geoinformation, MDPI Press
26. Future Generation Computer Systems, Elsevier Press
27. Analytical Chimica Acta, Elsevier Press
28. Forest MDPI Press

IX.2 Διεθνή Επιστημονικά Συνέδρια (ενδεικτικά)

1. ACM ACM PETRA Pervasive Technologies Related to Assistive Environment, 2009-2017
2. IEEE International Conference on Image Processing (ICIP) 2012, 2014.
3. International Conference on Computer Vision (ICCV) Chalearn 2016, 2014
4. ACM Multimedia, 2008, 2009, 2010, 2013
5. European Workshop on Image Analysis for Interactive Multimedia Services, (WIAMIS), 2004, 2005
6. EURASIP, European Signal Processing Conference (EUSIPCO), 2004-2012
7. IEEE Digital Signal Processing Conference (DSP), 2002
8. IASTED, International Conference on Robotics & Applications, 2002
9. IEEE International Conference on Information Intelligence and Systems, 1999
10. IEEE International Symposium on Circuits & Systems (ISCAS), 1998
11. IEEE International Conference on Computer Engineering and Systems, 2006
12. Euromed 2010, 2012, 2014, 2016

X. Δημοσιευμένο Έργο

X.1 Διατριβές και Διπλωματικές Εργασίες

Δ1. N. Δουλάμης, “Αλγόριθμοι Αποτελεσματικής Οργάνωσης, Αναζήτησης με Βάση το Περιεχόμενο και Μετάδοσης Εικόνων και Βίντεο,” Διδακτορική διατριβή, Τμήμα Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσοβίο Πολυτεχνείο, Αθήνα Φεβρουάριος 2001.

Δ2 N. Δουλάμης, “Μοντελοποίηση Πηγών Βίντεο MPEG και Μελέτη Μνήμης Πολυπλεξίας,” Διπλωματική Εργασία Τμήμα Ηλεκτρολόγων Μηχανικών και Μηχανικών Υπολογιστών, Εθνικό Μετσοβίο Πολυτεχνείο, Αθήνα Ιούλιος 1995 (**Έπαινος Τεχνικού Επιμελητηρίου Ελλάδος, 1996**).

X.2 Άρθρα σε Επιστημονικά Περιοδικά

A) IEEE Περιοδικά

Π1. Anastasios D. Doulamis, Nikolaos D. Doulamis and Stefanos D. Kollias, “Modeling and Queuing Analysis of Variable-Bit-Rate MPEG Video Streams,” *Journal of Electronics and Communications*, Vol. 38, No. 1, pp.1-8, 1998.

- II2.** Nikolaos D. Doulamis, Anastasios D. Doulamis and Stefanos D. Kollias, "A Dynamically Trained Neural Network for Machine Vision Applications," *Journal of Machine Graphics and Vision*, Vol. 7, Nos 1/2, pp. 113-123, 1998
- II3.** Pavlos Georgilakis, Nikos Hatziaargyriou, Nikolaos Doulamis, Anastasios Doulamis and Stefanos Kollias, "Prediction of Iron Losses of Wound Core Distribution Transformers based on Artificial Neural Networks," *Journal of Neurocomputing*, Elsevier Press, Vol. 23, pp. 15-29, December 1998.
- II4.** Nikolaos Doulamis, Anastasios Doulamis, Dimitrios Kalogeras and Stefanos Kollias, "Low bit Rate Coding of Image Sequence using Adaptive Regions of Interest," *IEEE Tran. on Circuits & Systems for Video Technology*, Vol. 8, No. 8, pp. 928-934, December 1998.
- II5.** Yannis Avrithis, Nikolaos Doulamis, Anastasios Doulamis, and Stefanos Kollias, "A Stochastic Framework for Optimal Key Frame Extraction from MPEG Video Databases," *Journal of Computer Vision and Image Understanding*, Academic Press, Vol. 75, Nos 1/2, pp. 3-24, July/August 1999.
- II6.** Anastasios D. Doulamis, Nikolaos D. Doulamis and Stefanos D. Kollias, "On Line Retractable Neural Networks: Improving the Performance of Neural Network in Image Analysis problems," *IEEE Trans. on Neural Networks*, Vol. 11, No. 1, pp. 137-155, January 2000.
- II7.** Nikolaos D. Doulamis, Anastasios D. Doulamis, George E. Konstantoulakis and George I. Stassinopoulos, "Efficient Modeling of VBR MPEG-1 Coded Video Sources," *IEEE Tran. on Circuit & Systems for Video Tech.* Vol. 10, No.1, 93-113, February 2000.
- II8.** Nikolaos D. Doulamis, Anastasios D. Doulamis, Y. Avrithis, K. Ntalianis and S. Kollias, "Efficient Summarization of Stereoscopic Video Sequences," *IEEE Trans. on Circuits & Systems for Video Technology*, Vol. 10, No. 4, pp. 501-517, June 2000.
- II9.** Anastasios Doulamis, Nikolaos Doulamis, Klimis Ntalianis and Stefanos Kollias, "Efficient Unsupervised Content-Based Segmentation in Stereoscopic Video Sequence," *Journal of Artificial Tools* (World Scientific Press), special issue on content understanding, vol. 9, no. 2, pp. 277-303, June 2000.
- II10.** Anastasios D. Doulamis, Nikolaos D. Doulamis and Stefanos D. Kollias, "A Fuzzy Video Content Representation for Video Summarization and Content-Based Retrieval," *Signal Processing*, Elsevier Press, Vol. 80, pp. 1049-1067, June 2000.
- II11.** Anastasios Doulamis, Nikolaos Doulamis and Stefanos Kollias, "Non-Sequential Video Content Representation Using Temporal Variation of Feature Vectors," *IEEE Trans. on Consumer Electronics*, Vol. 46, No. 3, pp. 758-768, August 2000.
- II12.** Nikolaos D. Doulamis, Anastasios D. Doulamis and Stefanos D. Kollias, "Improving the Performance of MPEG Encoding at Low Bit Rates Using Adaptive Neural Networks," *Journal of Real Time Imaging*, Academic Press, Vol. 6, No. 5, pp. 327- 345, October 2000.
- II13.** Pavlos Georgilakis, Nikolaos Doulamis, Anastasios Doulamis, Nikos Hatziaargyriou and Stefanos Kollias, "A Novel Iron Loss Reduction Technique for Distribution Transformers Based on a Combined Genetic Algorithm - Neural Network Approach," *IEEE Trans. on Systems, Man and Cybernetics, Part C*, Vol. 31, pp. 16-34, Feb 2001.
- II14.** Nikolaos D. Doulamis, Anastasios D. Doulamis, Pavlos S. Georgilakis, Stefanos D. Kollias, and Nikos D. Hatziaargyriou, "A Synergetic Neural Network-Genetic Algorithm Scheme for Optimal Construction of Wound Core Distribution Transformers," *Journal of Integrated Computer-aided Engineering*, IOS Press, Vol. 9, No. 1, pp. 37-56, January 2002.

- Π15.** Anastasios D. Doulamis, Nikolaos D. Doulamis and Stefanos D. Kollias, "An Adaptable Neural Network Model for Recursive Non-Linear Traffic Prediction and Modeling of MPEG Video Sources," *IEEE Trans. on Neural Networks*, Vol. 14, No. 1, pp. 150-166, January 2003.
- Π16.** Anastasios Doulamis, Nikolaos Doulamis and Theodora Varvarigou, "Efficient Content-based Image Retrieval using Fuzzy Organization and Optimal Relevance Feedback," *Internal Journal of Image and Graphics*, Special Issue on *Multimedia Data Storage and Management*, Vol.14, No. 1, pp. 150-166, January 2003.
- Π17.** Anastasios Doulamis, Klimis Ntalianis, Nikolaos Doulamis and Stefanos Kollias, "An Efficient Fully-Unsupervised Video Object Segmentation Scheme Using an Adaptive Neural Network Classifier Architecture," *IEEE Trans. on Neural Networks*, pp. 616-630, Vol. 14, No. 3, May 2003.
- Π18.** Nikolaos Doulamis, Anastasios Doulamis and Theodora Varvarigou "Adaptive Algorithms for Interactive Multimedia," *IEEE Multimedia Magazine*, Vol. 10, No. 4, pp. 38-47, Oct-Nov 2003
- Π19.** Evi Tsolakou, Anastasios Doulamis and Nikolaos Doulamis "Traffic Control Mechanisms in Large-Scale IP Networks," *Journal of Electronics and Communications*, Vol. 44, No. 2, pp. 21-28, 2003.
- Π20.** G. Allen, K. Davis, K. Dolkas, N. Doulamis, et. al., "Enabling Applications on the Grid: A GridLab Overview," *International Journal of High Performance Computing Applications*, Vol. 17, No. 4, pp. 449-466, November 2003.
- Π21.** N. Doulamis, A. Doulamis, A. Panagakis, K. Dolkas, T. Varvarigou and E. Varvarigos, "A Combined Fuzzy -Neural Network Model for Non-Linear Prediction of 3D Rendering Workload in Grid Computing," *IEEE Trans On Systems Man and Cybernetics Part-B*, Vol. 34, No. 2, pp. 1235-1247, April 2004
- Π22.** Anastasios Doulamis and Nikolaos Doulamis, "Generalized Non-Linear Relevance Feedback for Interactive Content-Based And Organization," *IEEE Trans. on Circuits and Systems for Video Technology*, special issue in audiovisual analysis for interactive multimedia services Vol. 14, No. 5, pp. 656-671, May 2004.
- Π23.** Anastasios Doulamis and Nikolaos Doulamis, "Optimal Content-based Video Decomposition for Interactive Video Navigation over IP-based Networks," *IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 14, No. 6, pp. 757-775, June 2004.
- Π24.** Nikolaos Doulamis and Anastasios Doulamis, "Non Linear Prediction of Rendering Workload for Grid Infrastructure," *Journal of Machine, Graphics and Vision*, Vol. 13, No. 1-2, pp. 123-135, 2004.
- Π25.** Nikolaos Doulamis and Anastasios Doulamis "Non Sequential Multiscale Video Decomposition: Improving Video Transmission Over Low bandwidth Networks," *Signal Processing*, Elsevier Press, Special Issue on content-based visual information retrieval, Vol. 85, No.2, pp. 325-356, February 2005.
- Π26.** Nikolaos Doulamis and Anastasios Doulamis, "Evaluation of Relevance Feedback Schemes in Content-based in Retrieval Systems," *Signal Processing: Image Communication*, Vol. 21, No 4, pp. 334-357, April 2006.
- Π27.** Nikolaos Doulamis, Anastasios Doulamis, Antonios Litke, Athanasios Panagakis, Theodora Varvarigou and Emmanuel Varvarigos, "Adjusted Fair Scheduling and Non-linear Workload Prediction for QoS Guarantees in Grid Computing," *Computer Communication, Elsevier Press*, Volume 30, Issue 3, pp. 499-515, February 2007.

- II28.** Nikolaos Doulamis, Anastasios Doulamis, Emmanouel A. Varvarigos and Theodora Varvarigou, "Fair QoS Resource Management in Grids," *IEEE Trans. on Parallel and Distributed Systems*, Vol. 18, No. 11, pp. 1630-1648, Nov. 2007.
- II29.** Nikolaos Papadakis, Anastasios Doulamis, Antonios Litke, Nikolaos Doulamis, Dimitrios Skoutas and Theodora Varvarigou, "MI-MERCURY: A Mobile Agent Architecture for Ubiquitous Retrieval and Delivery of Multimedia Information," *Journal of Multimedia Tools and Applications*, Vol. 38. No. 1, pp. 147-184, May 2008.
- II30.** Nikolaos Doulamis, Christodoulos Psaltis, Anastasios Doulamis, Sofoklis Sotiriou, Menelaos Sotiriou, "Technical infrastructure of the COSMOS Portal," *International Journal of Emerging Technologies in Learning (iJET)*, Vol 3, pp.21-32, 2008
- II31.** Nikolaos .D. Doulamis, Pantelis N. Karamolegkos, Anastasis. D. Doulamis, Ioannis Nikolakopoulos, "Exploiting semantic proximities for content search over p2p networks," *Computer Communications*, Elsevier Press, Vol. 32, No. 5, 27, pp. 814-827, March 2009
- II32.** D.I. Kosmopoulos, A. Doulamis, A. Makris, N. Doulamis, S. Chatzis, and S.E. Middleton, "Video-based Production of Personalized video," *Signal Processing: Image Communication*, Elsevier Press, Vol. 24, No. 3, pp. 158-176. March 2009
- II33.** D. Halkos, N. Doulamis, A. Doulamis, "A Secure Framework Exploiting Content Guided and Automated Algorithms for Real Time Video Searching," *Multimedia Tools and Applications*, Vol. 42, pp. 343-375, April 2009
- II34.** P. N. Karamolegkos, C. Z. Patrikakis, N. D. Doulamis, P. T. Vlacheas, I. G. Nikolakopoulos, "An Evaluation Study of Clustering Algorithms in the Scope of User Communities Assessment," *Computers and Mathematics with Applications* 58 (2009) 1498-1519
- II35.** Nikos Papadakis, Nikos Doulamis and Anastasios Doulamis, "Hierarchical Graph-Based Media Content Representation for Real Time Search in Large Scale Multimedia Databases." *Machine Graphics and Vision (MGV)*, vol. 19, no. 3, pp. 247-263, 2010.
- II36.** K. Ntalianis, A. Doulamis, N. Tsapatsoulis and N. Doulamis, "Human Action Annotation, Modeling and Analysis based on Implicit User Interaction," *Multimedia Tools and Applications*, Vol. 50, No.1, pp.199-225, 2010
- II37.** N. Doulamis, "Coupled Multi-Object Tracking and Labeling for Vehicle Trajectory Estimation and Matching" *Multimedia Tools and Applications*, , 50:173–198, 2010.
- II38.** P. Delias, A. Doulamis, N.Doulamis and N. Matsatsinis "Optimizing Resource Conflicts in Workflow Management Systems," *IEEE Transactions on Knowledge Engineering*, Vol. 23, No.3, pp. 417-432, March 2011.
- II39.** A.S. Voulodimos, N.D Doulamis, D.I Kosmopoulos, T.A Varvarigou, "Improving multi-camera activity recognition by employing neural network based readjustment," *Applied Artificial Intelligence*, 26 (1-2), pp. 97-118, 2012.
- II40.** D.I. Kosmopoulos, N.D Doulamis, A.S Voulodimos, "Bayesian filter based behavior recognition in workflows allowing for user feedback," *Computer Vision and Image Understanding*, 116 (3), pp. 422-434, 2012.

- II41.** V. Vescoukis, N. Doulamis, S. Karagiorgou, "A service oriented architecture for decision support systems in environmental crisis management", *Future Generation Computer Systems*, 28 (3), pp. 593-604, 2012.
- II42.** Michalis Kokkinos, Nikolaos Doulamis, Anastasios Doulamis "Local Geometrically Enriched Mixtures for Stable and Robust Human Tracking in Detecting Falls," *International Journal of Advanced Robotic Systems*, Vol. 10, pp. 1-13, January, 2013.
- II43.** C. Yiakoumettis, N. Doulamis, G. Miaoulis, D. Ghazanfarpour "Active learning of user's preferences estimation towards a personalized 3D navigation of geo-referenced scenes" *GeoInformatica*, 18 (1), pp. 27-62, 2014.
- II44.** A.S Voulodimos, D.I Kosmopoulos, N.D, Doulamis, T.A Varvarigou, "A top-down event-driven approach for concurrent activity recognition," *Multimedia Tools and Applications*, 69 (2), pp. 293-311, 2014.
- II45.** Georgia Kyriakaki, Anastasios Doulamis, Nikolaos Doulamis, Marinos Ioannides, Konstantinos Makantasis, Eftichios Protopapadakis, Andreas Hadjiprocopis, Konrad Wenzel, Dieter Fritsch , Michael Klein, Guenther Weinlinger, "4D Reconstruction of Tangible Cultural Heritage Objects from web-retrieved Images," *International Journal of Heritage in Digital Era*, pp. 431-452, 2014.
- II46.** N.D Doulamis, P. Kokkinos, E. Varvarigos, "Resource selection for tasks with time requirements using spectral clustering," *IEEE Transactions on Computers*, 63 (2), art. no. 6302122, pp. 461-474, 2014.
- II47.** K.S Ntalianis, A.D Doulamis, N.D Doulamis, N.E., Mastorakis, A.S Drigas, "Unsupervised Segmentation of Stereoscopic Video Objects: Constrained Segmentation Fusion Versus Greedy Active Contours," *Journal of Signal Processing Systems*, 81 (2), pp. 153-181, 2015.
- II48.** N.D Doulamis, A.D., Doulamis, P. Kokkinos, E. Varvarigos, "Event detection in Twitter microblogging" *IEEE Transactions on Cybernetics*, pp. 2810 - 2824, November 2015.
- II49.** Konstantinos Makantasis, Anastasios Doulamis, Nikolaos Doulamis, Marinos Ioannides, "In the wild image retrieval and clustering for 3D cultural heritage landmarks reconstruction," *Multimedia Tools and Applications*, , Volume 75, Issue 7, pp 3593–3629, April 2016.
- II50.** Konstantinos Makantasis, Eftychios Protopapadakis, Anastasios Doulamis, Nikolaos Doulamis, Nikolaos Matsatsinis "3D Measures Exploitation for a Monocular Semi-Supervised Fall Detection System," *Multimedia Tools and Applications*, 75 (22), pp. 15017-15049, 2016.
- II51.** K. Ntalianis, N. Doulamis, "An automatic event-complementing human life summarization scheme based on a social computing method over social media content," *Multimedia Tools and Applications*, 75 (22), pp. 15123-15149, 2016.
- II52.** A. Voulodimos, N. Doulamis, D. Fritsch, K. Makantasis, A. Doulamis, M. Klein, "Four-dimensional reconstruction of cultural heritage sites based on photogrammetry and clustering," *Journal of Electronic Imaging*, 26 (1), 2017.

Π53. S. Xeferis, N. Doulamis, V. Andronikou, T. Varvarigou, and G. Cambourakis, “Behavioral Biometrics in Assisted Living: A Methodology for Emotion Recognition,” *Engineering, Technology & Applied Science Research* Vol. 6, No. 4, 2016, 1035-1044.

Χ.3 Κεφάλαια σε Βιβλία

K1. Anastasios D. Doulamis, Nikolaos D. Doulamis, George E. Konstantoulakis and George I. Stassinopoulos, “Traffic Characterization and Modelling of VBR Coded MPEG Sources,” *IFIP on Performance Models and Traffic Evaluation of ATM Networks*, vol. 3, pp. 62-81, 1997.

K2. Klimis Ntalianis, Nikolaos Doulamis, Anastasios Doulamis and Stefanos Kollias, “Traffic Analysis and Modeling of Real World Video Encoders,” *Computational Intelligence and Applications, world scientific press*, ISBN: 960-852-05-X , pp.372-377, 1999.

K3. Ioannis Stephanakis, Nikolaos Doulamis, Anastasios Doulamis, And Stefanos Kollias, “Iterative Evaluation of Regularization Parameters in Regularized Image Restoration with Wavelet Filter Banks,” *Computational Intelligence and Applications, world scientific press*, ISBN: 960-852-05-X, pp. 348-353, 1999.

K4. Nikolaos D. Doulamis, Anastasios D. Doulamis and Stefanos D. Kollias, “Video Object Segmentation Using the EM Algorithm,” *Advances in Intelligent Systems: Concepts, Tools and Applications*, Kluwer Press, pp. 321-332, ISBN 0-7923-5966-6, November 1999.

K5. Pavlos Georgilakis, Nikos Hatzargyriou, Nikolaos Doulamis, Anastasios Doulamis and John Bakopoulos, “An Efficient PC-Based Environment for the Improvement of Magnetic Cores Industrial Process,” *Advances in Manufacturing, Decision, Control and Information Technology*, Springer Verlag, pp. 385-396, (ISBN 1852331267) February 1999.

K6. Anastasios Doulamis, Yannis Avrithis, Nikolaos Doulamis and Stefanos Kollias, “A Genetic Algorithm for Efficient Video Content Representation,” *Computational Intelligence in Systems and Control Design and Applications*, pp. 151-162, ISBN 0-7923-5993-3, Kluwer Press, January 2000.

K7. K. Ntalianis, A. Doulamis, N.Doulamis and S. Kollias, “Unsupervised Stereoscopic Video Object Segmentation Based on Active Contours and Retractable Neural Networks,” *RECENT ADVANCES IN CIRCUITS, SYSTEMS AND SIGNAL PROCESSING* World Scientific Press, ISBN 960 8052 645 pp. 782-786, July 2002.

K8. E. Varvarigos, Nikolaos Doulamis, Anastasios Doulamis and Theodora Varvarigou, “Timed/Advance Reservation Schemes and Scheduling Algorithms for QoS Resource Management in Grids,” *Engineering the Grid, American Scientific Publishers*, Edited by B. Di Martino, J. Dongarra, A. Hoisie, L. T. Yang, and H. Zima, pp. 355-378, American Scientific Publishers, ISBN 1-58883-038-1, 2006.

K9. N. Doulamis, G. Bardis, J. Dragonas and G. Miaoulis “Chapter 9: Collaborative Evaluation using Multiple Clusters in a Declarative Design Environment,” *Studies in Computational Intelligence*, 159, pp. 141-157, Springer Verlag.

K10. P. Kokkinos, K. Christodouloupoulos, N. Doulamis and E. Varvarigos, “Quality of Service Scheduling of Computation and Communication Resources in Grid Networks,” in “Grid Computing Research Progress”, Nova Science Publishers, ISBN 9781604564044, editor Jiannong Wong, Chapter 3, pp. 91-150, 2008.

K11. J. Dragonas, N. Doulamis, “Chapter 5: Web-based collaborative system for scene modelling,” *Studies in Computational Intelligence*, 181, pp. 121-151, 2009.

K12. Nikolaos Doulamis, John Dragonas, Anastasios Doulamis, Georgios Miaoulis, and Dimitri Plemenos, “Chapter 10: Machine Learning and Pattern Analysis Methods for Profiling in a Declarative Collaborative Framework”, Intelligent Computer Graphics, Volume 240 of the series Studies in Computational Intelligence pp 189-206, 2009.

K13. Nikolaos Doulamis, Evangelos Chronis, George Miaoulis, Dimitri Plemenos, “Personalized View Selection of 3D Molecular Proteins,” Intelligent Computer Graphics, Volume 321 pp 211-227, 2010.

K14. Nikolaos Doulamis, John Dragonas, Dora Pliota, George Miaoulis, Dimitri Plemenos, “Objects Description Exploiting User’s Sociality,” Intelligent Computer Graphics, Volume 374 of the series Studies in Computational Intelligence pp 41-59, 2011.

K15. Nikolaos Doulamis, Anastasios Doulamis, Charalabos Ioannidis, Michael Klein, Marinos Ioannides Modeling of Static and Moving Objects: Digitizing Tangible and Intangible Cultural Heritage,” Chapter 22, Mixed Reality and Gamification for Cultural Heritage, 2016.

X.4 Guest Editorial σε Περιοδικά/Συνέδρια

G1. A. Doulamis, L. van Gool, M. Nixon, T.A. Varvarigou, N. Doulamis, “First ACM international workshop on analysis and retrieval of events, actions and workflows in video streams,” Proceeding of the 16th ACM international conference on Multimedia, pp.1147-1148, Vancouver, Canada, 2008.

G2. A. D. Doulamis, L. van Gool, M. Nixon, N. D. Doulamis, and T. A. Varvarigou, “Analysis and retrieval of events/actions and workflows in video streams,” *Multimed Tools Appl* (2010) 50:1–6 DOI 10.1007/s11042-010-0514-2.

G3. N. Ramzan, F. Wang, C.Z. Patrikakis, P. Cui, N. Doulamis, S. Yang, G. Sun, “ACM international workshop on social and behavioral networked media access (SBNMA'11),” MM'11 - Proceedings of the 2011 ACM Multimedia Conference and Co-Located Workshops, pp. 611-612, Scottsdale, Arizona, 2011.

G4. A. Doulamis, M. Bertini, N. Doulamis, J. González, T. Moeslund, “ACM/IEEE ARTEMIS 2013 chairs' welcome,” ARTEMIS 2013 - Proceedings of the 4th ACM/IEEE International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Stream, Barcelona Spain, 2013.

G5. A. Doulamis, N. Doulamis, L. Van Gool, M. Nixon, “Guest editorial: Event-based video analysis/retrieval,” *Multimedia Tools and Applications*, 69 (2), pp. 247-251, 2014.

G6. A. Doulamis, N. Doulamis, M. Bertini, J. Gonzalez, T. Moeslund, “Guest Editorial: Analysis and Retrieval of Events/Actions and Workflows in Video Streams,” *Multimedia Tools and Applications*, 75 (22), pp. 14985-14990, 2016.

X.5 Άρθρα σε Συνέδρια με Κριτές

Σ1. A. Doulamis, N. Tsapatsoulis, N. Doulamis and S. Kollias, “Innovative Techniques for Recognition of Faces Based on Multiresolution Analysis and Morphological Filtering,” Proc. of International Workshop on Systems, Signal & Image Processing, pp. 155-159, Manchester UK, November 1996.

Σ2. N. Doulamis, A. Tsiodras, A. Doulamis and S. Kollias, “Low Bit Rate Coding of Image Sequences using Regions of Interest and Neural Networks,” Proc. of International Workshop on Systems, Signal & Image Processing, pp. 561-565, Manchester UK, November 1996.

- Σ3.** N. Doulamis, N. Tsapatsoulis, A. Doulamis, A. Tsiodras and S. Kollias, "Markovian Models for Real-World MPEG -I Encoders," *Proc. of 2nd Erlangen Symposium on Image Analysis and Communications*, Erlangen Germany, April 1997.
- Σ4.** N. Doulamis, A. Doulamis and S. Kollias, "A Two Layer Neural Network Scheme for Improving Classification of Aerial Images," *Proc. of International Workshop on Systems, Signal & Image Processing*, pp. 133-136, Poznan Poland, May 1997.
- Σ5.** A. Doulamis, Y. Avrithis, N. Doulamis and S. Kollias, "Indexing and Retrieval of the Most Characteristics Scenes/Frames in Video-databases," *Proc. of the 1st Workshop on Image Analysis for Multimedia Interactive Systems (WIAMIS)*, pp. 1054-110, Louvais-la-Neuve Belgium, June 1997.
- Σ6.** N. Doulamis, A. Doulamis, G. E. Konstantoulakis and G. I. Stassinopoulos, "Performance Models for Multiplexed VBR MPEG Video Sources," *Proc. of the IEEE International Conference on Communications (ICC)*, Vol. 2, pp. 856-861, Montreal Canada, 8-12 June 1997.
- Σ7.** A. Doulamis, N. Doulamis and S. Kollias, "Retrainable Neural Networks for Image Analysis and Classification," *Proc. of IEEE International Conference on Systems, Man and Cybernetics (SMC)*, Vol. 4, pp.3558-3563, Orlando Florida USA, 12-15 October 1997.
- Σ8.** S. Kollias, N. Doulamis and A. Doulamis, "Improving the Performance of MPEG Compatible Encoders using On Line Retractable Neural Networks," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 3, pp. 424-427, Santa Barbara California USA, 26-29 October 1997.
- Σ9.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "On Line Adaptation of Neural Network Classifiers to Non-Stationary Image and Video Inputs," *Proc. of 14th European Meeting on Cybernetics and Systems Research*, Vol. 2, pp. 616-621, Vienna Austria, April 1998.
- Σ10.** N. A. Tsapatsoulis, N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Face Extraction from Non-Uniform Background and Recognition in Compressed Domain," *Proc. of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, Vol. 5, pp. 2701-2704, Seattle WA USA, 12-15 May 1998.
- Σ11.** Y. S. Avrithis, N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Efficient Content Representation in MPEG Video Databases," *Proc. of IEEE International Workshop on Content based Access Interactive Video Libraries in Conjunction with the IEEE Computer Vision and Pattern Recognition Conference (CVPR)*, pp. 91-95, Santa Barbara CA USA, June 1998.
- Σ12.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Prediction of Cell Losses for VBR MPEG Encoders," *Proc. of International Network Conference (INC)*, pp. 234-239, Plymouth UK, July 1998.
- Σ13.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Adaptive Learning Algorithms for Semantic Object Extraction," *Proc. of EURASIP European Signal Processing Conference (EUSIPCO)*, pp. 1297-1300, Rhodes Greece, September 1998.
- Σ14.** A. D. Doulamis, N. D. Doulamis and A. N. Delopoulos, "Optimal Subband Analysis Filters Compensating for Quantization and Additive Noise," *Proc. of EURASIP European Signal Processing Conference (EUSIPCO)*, pp.1877-1880, Rhodes Greece, September 1998.
- Σ15.** Y. S. Avrithis, A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "An Adaptive Approach to Video Indexing and Retrieval Using Fuzzy Classification," *Proc. of International Workshop on Very Low Bitrate Video Coding (VLBV)*, pp. 69-72, Urbana IL USA, October 1998.

- Σ16.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "A Neural Network Based Scheme for Unsupervised Video Object Segmentation" *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 632-636, Chicago IL USA, 4-7 October 1998.
- Σ17.** N. D. Doulamis, A. D. Doulamis, Y. Avrithis and S. D. Kollias, "Video Content Representation using Optimal Extraction of Frames and Scenes," *Proc of IEEE International Conference on Image Processing (ICIP)*, Vol. 1, pp. 875-879, Chicago IL USA, 4-7 October 1998.
- Σ18.** N. D. Doulamis, A. D. Doulamis, K. Ntalianis and S. D. Kollias, "Intelligent Techniques for Image Sequence Analysis: Towards Semantic Video Object Segmentation," *Proc. of the 2nd Workshop on Image Analysis for Multimedia Interactive Systems (WIAMIS)*, pp. 21-24, Berlin Germany, May 1999.
- Σ19.** P. Georgilakis, N. Hatzigargyriou, A. Doulamis, N. Doulamis and S. Kollias, "A Neural Network Framework for Predicting Transformer Core Losses," *Proc. of IEEE 21st International Conference on Power Industry Computer Applications (PICA)*, pp. 301-308, San Francisco, USA 16-21 May 1999.
- Σ20.** A. D. Doulamis, Y. S. Avrithis, N. D. Doulamis and S. D. Kollias, "Interactive Content-Based Retrieval in Video Databases Using Fuzzy Classification and Relevance Feedback," *Proc. of IEEE International Conference on Multimedia Computing and Systems (ICMCS)*, Vol. 2, pp. 954-958, Florence, Italy, 7-11 June 1999.
- Σ21.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Relevance Feedback for Content-Based Retrieval in Video Databases: A Neural Network Approach," *Proc. of IEEE International Conference on Electronics, Circuits and Systems (ICECS)*, Vol. 3, pp. 1745-1748, Paphos, Cyprus, 5-8 September 1999.
- Σ22.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Object Based Coding of Video Sequences at Low Bit Rates Using Adaptively Trained Neural Networks," *Proc. of IEEE International Conference on Electronics, Circuits and Systems (ICECS)*, Vol. 2, pp. 969-972, Paphos, Cyprus, 5-8 September 1999.
- Σ23.** N. Doulamis, A. Doulamis and S. Kollias, "Efficient Content-based Retrieval of Humans from Video Databases," *IEEE Workshop on Recognition, Analysis and Tracking of Faces and Gestures in Real Time Systems, in conjunction with IEEE International Conference on Computer Vision (ICCV)*, pp. 89-95, Corfou, Greece, 26-27 Sept. 1999.
- Σ24.** N. D. Doulamis, A. D. Doulamis and S. Kollias, "Modeling and Adaptive Prediction of VBR MPEG Video Sources," *Proc. of IEEE International Workshop on Multimedia Signal Processing (MMSP)*, pp. 27-32, Copenhagen Denmark, 13-15 September 1999.
- Σ25.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "A Pyramidal Graph Representation for Efficient Image Content Description," *Proc. of IEEE International Workshop on Multimedia Signal Processing (MMSP)*, pp. 109-114, Copenhagen Denmark, 13-15 September 1999.
- Σ26.** N. D. Doulamis, A. D. Doulamis, Y. S. Avrithis, K. S. Ntalianis and S. D. Kollias, "An Optimal Framework for Summarization of Stereoscopic Video Sequences," in *Proc of International Workshop on Synthetic Natural Hybrid Coding and Three Dimensional Imaging (IWSNHC3DI)*, pp. 58-61, Santorini, Greece, September 1999.
- Σ27.** N. D. Doulamis, A. D. Doulamis, Y. Avrithis and S. Kollias, "A Stochastic Framework for Optimal Key Frame Extraction from MPEG Video Databases," *Proc. of IEEE International Workshop on Multimedia Signal Processing (MMSP)*, pp. 141-146, Copenhagen Denmark, 13-15 September 1999.

- Σ28.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Statistical Multiplexing and Quality of Service Control of VBR MPEG Video Sources," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 1, pp. 271-275, Kobe Japan, October 1999.
- Σ29.** A. D. Doulamis, N. D. Doulamis, I. Stefanakis and S. Kollias, "Object Oriented Video Coding Using Adaptive Wavelet Packet Decomposition," *Workshop on Very Low Bit Rate Video Coding (VLBV)*, pp. 137-140, Kyoto Japan, October 1999.
- Σ30.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Representation of Image Content Using Tree-Structured Graphs," *Workshop on Very Low Bit Rate Video Coding (VLBV)*, Kyoto Japan, pp. 55-58, October 1999.
- Σ31.** I. Stephanakis, A. Doulamis, N. Doulamis and S. Kollias, "Adaptive Wavelet-Packet Decomposition for Rate Control of Object Oriented Coding of Video Sequences," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 298-302, Kobe Japan, October 1999.
- Σ32.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "A Neural Network Approach to Interactive Content-based Retrieval of Video Databases," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 116-120, Kobe Japan, October 1999.
- Σ33.** A. D. Doulamis, N. D. Doulamis, K. S. Ntalianis and S. D. Kollias, "Unsupervised Semantic Object Segmentation of Stereoscopic Video Sequences," *IEEE International Conference on Information, Intelligence & Systems*, pp. 527-533, Washington DC, USA, 31 October-3 November 1999.
- Σ34.** I. Stephanakis, A. Doulamis, N. Doulamis and N. Tsapatsoulis, "A Multiresolution Model of Iterative Regularized Image Restoration", *IEEE International Conference on Information, Intelligence & Systems*, pp. 512-518, Washington DC, USA, 31 October-3 November 1999.
- Σ35.** N. Doulamis, A. Doulamis, K. Ntalianis and S. Kollias, "Neural Networks Retraining in Image Analysis Problems," *IASTED Neural Networks*, pp. 93-99, Pittsburgh USA, May 2000.
- Σ36.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Progressive Content-Based Retrieval Using Tree-Structure Graphs," *IEEE 10th Mediterranean Electrotechnical Conference (MELECON)*, Vol 2, pp. 550-553, Limassol Cyprus, May 2000.
- Σ37.** K S. Ntalianis, N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "An Active Contour-Based Video Object Segmentation Scheme for Stereoscopic Video Sequences," *IEEE 10th Mediterranean Electrotechnical Conference (MELECON)*, pp. Vol. 2, 554-557, Limassol Cyprus, May 2000.
- Σ38.** G. Akrivas, N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Scene Detection Methods for MPEG – Encoded Video Signals," *IEEE 10th Mediterranean Electrotechnical Conference (MELECON)*, Vol. 2, pp. 677-680, Limassol Cyprus, May 2000.
- Σ39.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Traffic Prediction and Network Resources Estimation of VBR MPEG-2 Sources Using Adaptively Trained Neural Networks," *IEEE 10th Mediterranean Electrotechnical Conference (MELECON)*, Vol. 2 pp. 717-720, Limassol Cyprus, May 2000.
- Σ40.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Efficient Video Summarization Based on a Fuzzy Video Content Representation," *IEEE International Symposium on Circuits & Systems (ISCAS)*, Vol. 4, pp. 301-304, Geneva Switzerland, 28-31 May 2000.

- Σ41.** A. D. Doulamis, N. Doulamis, G. Akrivas and S. Kollias, "Non-Sequential Video Content Representation Using Temporal Variation of Feature Vectors," *IEEE International Conference on Consumer Electronics (ICCE)*, pp. 348-349, Los Angeles USA, 13-15 June 2000.
- Σ42.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Recursive Non Linear Models for On Line Traffic Prediction of VBR MPEG Coded Video Sources," *IEEE International Joint Conference on Neural Networks*, (IJCNN), Vol. 6, pp. 114-119, Come Italy, 24-27 July 2000.
- Σ43.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Non-Linear Relevance Feedback: Improving the Performance of Content-Based Retrieval Systems," *IEEE International Conference on Multimedia & Expo (ICME)*, Vol. 1, pp. 331-334, New York USA, 30 July- 2 August 2000.
- Σ44.** K. S. Ntalianis, N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "A Feature Point Based Scheme for Unsupervised Video Object Segmentation in Stereoscopic Video Sequences," *IEEE International Conference on Multimedia & Expo (ICME)*, Vol. 3, pp. 1543-1546, New York USA, 30 July- 2 August 2000.
- Σ45.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Non Linear Traffic Modeling of VBR MPEG-2 Video Sources," *IEEE International Conference on Multimedia & Expo (ICME)*, Vol. 3, pp. 1318-1321, New York USA, 30 July- 2 August 2000.
- Σ46.** N. D. Doulamis, A. D. Doulamis and S. D. Kollias, "Adaptive Trained Neural Networks for Traffic Prediction of VBR MPEG-2 Video Sources," *(EURASIP) European Conference on Signal Processing, (EUSIPCO)*, Vol. 3, pp. 1501-1503, Tampere Finland, September 2000.
- Σ47.** A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Content-based Image Retrieval Using Fuzzy Visual Representation," *(EURASIP) European Conference on Signal Processing, (EUSIPCO)*, Vol. 3, pp. 1385-1387, Tampere Finland, September 2000.
- Σ48.** A. D. Doulamis, N. D. Doulamis, I. Stephanakis and S. Kollias, "Selection of Optimal Wavelet Packet Transforms for Object-based Coding," *(EURASIP) European Conference on Signal Processing, (EUSIPCO)*, Vol. 3, pp. 1149-1151, Tampere Finland, September 2000.
- Σ49.** N. D. Doulamis, K. S. Ntalianis, A. D. Doulamis, S. D. Kollias and I. Z. Koukoutsidis, "A Fuzzy Multiple Feature Vector Formulation Scheme Towards Optimal Key Frame Extraction of Stereoscopic Video Sequences," *Congress on Artificial Intelligence*, pp. 313-321, Barcelona Spain, October 2000.
- Σ50.** A. D. Doulamis, K. S. Ntalianis, N. D. Doulamis, K. Karpouzis and S. D. Kollias, "Unsupervised Tracking of Stereoscopic Video Objects Employing Neural Networks Retraining," *Congress on Artificial Intelligence*, pp. 322-330, Barcelona Spain, October 2000.
- Σ51.** A. D. Doulamis and N. D. Doulamis, "Semantic Object Extraction in Stereo Video Sequences," *IASTED, Signal and Image Processing*, Las Vegas USA, pp. 398-403, USA, November 2000.
- Σ52.** K. S. Ntalianis, N. D. Doulamis, A. D. Doulamis, G. Patikis and S. D. Kollias, "An Efficient Scheme for Automatic VOP-Based Organization of Stereo-Captured Video Sequences," *Proc. of 3rd Workshop on Image Analysis for Multimedia Interactive Systems (WIAMIS)*, pp. 119-124, Tampere Finland, May 2001.
- Σ53.** N. Doulamis, A. Doulamis, K. Ntalianis, "Optimal Interactive Content-Based Image Retrieval," in *Proceedings of the International Conference on Augmented, Virtual Environments and Three-Dimensional Imaging (ICAV3D'01)*, Myconos, Greece, 30 May-1 June 2001.
- Σ54.** K. S. Ntalianis, A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Unsupervised VOP Segmentation of Stereo-Captured Video Sequences," in *Proceedings of the International Conference on*

Augmented, Virtual Environments and Three-Dimensional Imaging (ICAV3D'01), Myconos, Greece, 30 May-1 June 2001.

Σ55. A. Doulamis and N. Doulamis, "Fuzzy Histograms for Efficient Visual Content Representation: Application to Content-Based Image Retrieval," *Proc. of IEEE International Conference on Multimedia and Expo (ICME)*, pp. 893-896, Tokyo Japan, 22-25 August 2001

Σ56. N. Doulamis and A. Doulamis, "Efficient Video Transmission over Internet based on a Hierarchical Video Summarization," *Proc. of IEEE International Conference on Multimedia and Expo (ICME)*, pp. 765-768, Tokyo Japan, 22-25 August 2001

Σ57. K. S. Ntalianis, A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Automatic Content-based Organization of Video Sequences for Multimedia Applications," *Proc. of IEEE International Conference on Multimedia and Expo (ICME)*, pp. 717-720, Tokyo Japan, 22-25 August 2001.

Σ58. K. Ntalianis, N. Doulamis, A. Doulamis and S. Kollias, "Multiresolution Gradient Vector Flow Field: A Fast Implementation Towards Video Object Plane Segmentation," *Proc. of IEEE International Conference on Multimedia and Expo (ICME)*, pp. 1-4, Tokyo Japan, 22-25 August 2001.

Σ59. A. Doulamis, N. Doulamis and P. Maragos, "Generalized Multiscale Connected Operators with Applications to Granulometric Image Analysis," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 3, pp. 684-687, Thessaloniki Greece, 7-10 October 2001.

Σ60. K. S. Ntalianis, N. D. Doulamis, A. D. Doulamis, I. Z. Koukoutsidis and S. D. Kollias, "A Multiscale Tree-Structure for Fast Browsing and Effective Transmission of Video Files," in *Proceedings of the IEEE International Workshop on Multimedia Signal Processing (MMSP'01)*, Cannes, France, October 2001.

Σ61. K. S. Ntalianis, A. D. Doulamis, N. D. Doulamis and S. D. Kollias, "Non-Sequential Video Structuring based on Video Object Linking: An Efficient Tool for Video Browsing and Indexing," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 3, pp. 410-413, Thessaloniki Greece, 7-10 October 2001.

Σ62. N. Doulamis and A. Doulamis, "A Recursive Optimal Relevance Feedback Scheme for Content Based Image Retrieval," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 741-744, Thessaloniki Greece, 7-10 October 2001.

Σ63. K. S. Ntalianis, N. Doulamis, A. Doulamis and S. D. Kollias, "Tube-Embodied Gradient Vector Flow Fields for Unsupervised Video Object Plane (VOP) Segmentation," *Proc. of IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 637-640, Thessaloniki Greece, 7-10 October 2001.

Σ64. K. Ntalianis, A. Doulamis and N. Doulamis, "Unsupervised Stereoscopic Video Object Segmentation based on Active Contours and Retractable Neural Networks," *International Conference on Very Low Bit Rate Video Coding (VLBV'01)*, pp. 109-112, Athens Greece, October 2001.

Σ65. K. Ntalianis, A. Doulamis, N. Doulamis, and S. Kollias, "Unsupervised Video Object Segmentation of Stereoscopic Video Sequences Using Depth Information and Multiresolution Gradient Vector Flow Fields," *IEEE Multimedia Technology and Applications (MTAC)*, November 2001, California USA, November 2001.

Σ66. N. Doulamis, K. Ntalianis and A. Doulamis "Hierarchical Content Organization of Video Files for Interactive Video Transmission and Navigation over Internet," *IEEE Multimedia Technology and Applications (MTAC)*, California USA, November 2001.

- Σ67.** A. Doulamis, K. Ntalianis, N. Doulamis and S. Kollias, "Adaptable Neural Networks for Unsupervised Content-based Video Object Segmentation," *Lecture Notes in Computer Science, Springer-Verlang Press, International Conference on Artificial Neural Networks*, Vol. 2130, pp. 1060-1066 2001.
- Σ68.** G. Votsis, N. Doulamis, A. Doulamis, N. Tsapatsoulis and S. Kollias, "A Neural-Network-based Approach to Adaptive Human Computer Interaction," *Lecture Notes in Computer Science, Springer-Verlang Press, International Conference on Artificial Neural Networks*, Vol. 2130, pp. 1054-1059 2001.
- Σ69.** K. Ntalianis, N. Doulamis, A. Doulamis, and S. Kollias, "Automatic Stereoscopic Video Object-based Watermarking Using Qualified Significant Wavelet Trees," *IEEE Inter. Conf. on Consumer Electronics*, pp. 188-189, Los Angeles USA, 18-20 June 2002
- Σ70.** N. Doulamis, A. Doulamis and K. Ntalianis, "Adaptive Classification-based Articulation and Tracking of Video Objects Employing Neural Network Retraining," *IEEE International Conference on Digital Signal Processing (DSP)*, Vol 2, pp. 575-578, Santorini Greece, 1-3 July 2002.
- Σ71.** K. Ntalianis, A. Doulamis, N. Doulamis and S. Kollias, "Unsupervised Segmentation of Stereoscopic Video Objects: Investigation of two Depth-based Approaches," *IEEE Inter. Conf. on Digital Signal Processing (DSP)*, Vol 2, pp. 693-696, Santorini Greece, 1-3 July 2002.
- Σ72.** A. Doulamis and N. Doulamis, "Stochastic Search Algorithms for Optimal Content-based Sampling of Video Sequences," *IEEE International Conference on Digital Signal Processing (DSP)*, Vol. 2, pp. 551-554, Santorini Greece, 1-3 July 2002.
- Σ73.** N. Doulamis, A. Doulamis and T. Varvarigou, "Adaptable Neural Networks for Modeling Recursive Non-linear Systems," *IEEE Inter. Conf. on Digital Signal Processing (DSP)*, Vol 2, pp. 1191-1194, Santorini Greece, 1-3 July 2002.
- Σ74.** A. Doulamis and N. Doulamis, "A Neural Network-Genetic Algorithm Scheme for Optimal Grouping of Individual Cores in Three-phase Distributed Transformers," *IEEE Inter. Conf. on Digital Signal Processing (DSP)*, Vol 2, pp. 1061-1064, Santorini Greece, 1-3 July 2002.
- Σ75.** K. Ntalianis, A. Doulamis, N. Doulamis and S. Kollias, "A Robust Steganographic Wavelet-Based System for Resistant Message Hiding Under Error Prone Networks," *IEEE International Conf. on Multimedia and Expo (ICME)*, Vol. 2, pp. 561-564, Lausanne Switzerland, 26-29 August 2002.
- Σ76.** N. Doulamis, A. Doulamis and K. Ntalianis, "An Optimal Interpolation-based Scheme for Video Summarization," *Proc. of the IEEE Inter. Conf. on Multimedia and Expo (ICME)*, Vol.1, pp. 297-300, Lausanne Switzerland, 26-29 August 2002.
- Σ77.** K. Ntalianis, N. Doulamis, A. Doulamis and S. Kollias, "An Automatic Video-Object Based Steganographic System for Multi-use Message Hiding Using Wavelet Transform," *IEEE International Conference on Systems, Man and Cybernetics (SMC)*, Vol. 3, pp. 365-370, Tunisia, 6-9 October 2002.
- Σ78.** N. Doulamis and A. Doulamis, "Optimal Distribution Transformers Assembly Using an Adaptable Neural Network-Generic Algorithm Scheme," *IEEE Inter. Conference on Systems, Man and Cybernetics (SMC)*, Vol. 5, pp. 151-156, Tunisia, 6-9 October 2002.
- Σ79.** K. Ntalianis, N. Doulamis, A. Doulamis and S. Kollias, "Video Object Articulation Using Depth-based Content Segmentation Approaches," *IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 417-420, NY USA, 22-25 September 2002.

- Σ80.** N. Doulamis and A. Doulamis, "Optimal Recursive Similarity Measure Estimation for Interactive Content-Based Image Retrieval," *IEEE International Conference on Image Processing (ICIP)*, Vol. 1, pp. 972-975, NY USA, 22-25 September 2002.
- Σ81.** K. Ntalianis, A. Doulamis, N. Doulamis and S. Kollias, "An Automatic Scheme for Stereoscopic Video Object-based Watermarking Using Qualified Significant Wavelet Trees," *IEEE International Conference on Image Processing (ICIP)*, Vol. 3, pp. 501-504, NY USA, 22-25 September 2002.
- Σ82.** A. Doulamis and N. Doulamis, "Optimal Multi-Content Video Decomposition for Efficient Video Transmission over Low-Bandwidth Networks," *IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 201-204, NY USA, 22-25 September 2002.
- Σ83.** N. Doulamis, A. Doulamis and K. Ntalianis, "Recursive Non-Linear Autoregressive Models (RNAR): Application to Traffic Prediction of MPEG Video Sources," *EURASIP: European Signal Processing Conference (EUSIPCO)*, Toulouse France, September 2002.
- Σ84.** N. Doulamis, A. Doulamis, Athanasios Panagakis, Konstantinos Dolkas, T. Varvarigou and Emmanuel Varvarigos, "Workload Prediction of Rendering Algorithms in GRID Computing," *Proc. of 7th European Multigrid Conference (EMG)*, Germany, October 2002.
- Σ85.** Klimis Ntalianis, Anastasios Doulamis, Nikolaos Doulamis and Stefanos Kollias, "Neural Networks Retraining for Unsupervised Video Object Segmentation of Videoconference Sequences," *Lecture Notes in Computer Science, Springer-Verlag Press*, International Conference on Artificial Neural Networks, Vol. 2415, pp. 1312-1318 2002.
- Σ86.** A. D. Doulamis, N. D. Doulamis and T. Varvarigou, "Adaptive Similarity Measure Estimation for Interactive Multimedia Content Retrieval," *4th European Workshop of Image Analysis for Interactive Multimedia Services (WIAMIS)*, London, May 2003.
- Σ87.** D. Kosmopoulos, A. Doulamis, N. Doulamis and T. Varvarigou, "Reliable Networks of Omega-Interconnected Identical Processing Elements," *International Conference on Parallel and Distributed Techniques and Applications (PDPTA)*, Las Vegas USA, July 2003.
- Σ88.** A. Doulamis and N. Doulamis, "Performance Evaluation of Euclidean/Correlation-Based Relevance Feedback Algorithms in Content-Based Image Retrieval Systems," *Proc. of the IEEE International Conference on Image Processing (ICIP)*, Vol. 1, pp 737-740, Barcelona, 14-17 September 2003.
- Σ89.** N. Doulamis, A. Doulamis, "Non-Linear 3D Rendering Workload Prediction based on a Combined Fuzzy-Neural Network Architecture for Grid Computing Applications," *Proc. of the IEEE International Conference on Image Processing (ICIP)*, Vol.3, pp. 1069-1072, Barcelona, 14-17 September 2003.
- Σ90.** N. Doulamis and A. Doulamis, "Video Object Segmentation and Tracking in Stereo Sequences using Adaptable Neural Networks," *Proc. of the IEEE International Conference on Image Processing (ICIP)*, Vol 1, pp. 149-152, Barcelona, 14-17 September 2003.
- Σ91.** A. D. Doulamis and N. D. Doulamis, "Multiscale Non-Linear Video Content Decomposition: Analysis and Evaluation," *Proc. of European Signal Processing Conference, (EUSIPCO)*, Vienna-Austria, Sept. 2004.
- Σ92.** A. Litke, A. Panagakis, A. Doulamis, N. Doulamis, T. Varvarigou and E. Varvarigos, "An advanced architecture for a commercial grid infrastructure," *Lecture Notes in Computer Science, Springer-Verlag Press*, Second European Grid Computing Conference, AxGrids, Vol. 3165, pp. 32-41, 2004

- Σ93.** N. Doulamis and P. Georgilakis, "Adaptive multimedia content personalization," *IEEE International Symposium on Circuits & Systems (ISCAS)*, Vol. 2, pp. 189-192, Vancouver Canada, 2004.
- Σ94.** Nikolaos Doulamis. "Generalized Adaptive Personalization of Multimedia Content," 5th International Workshop on Image Analysis for Multimedia Interactive Services, 21-23, Lisboa, Portugal, April, 2004
- Σ95.** N. Doulamis, P. Karagiannis, K. Paparrizos, A. Sifaleras, and A. Doulamis, "A Reconfigurable Mobile Agent Architecture Enhanced with Relevance Feedback Mechanism for Interactive Multimedia Retrieval," *7th DELOS Thematic Workshop on Audio-visual content and Information Visualization in Digital Libraries (AVIVDILID)*, Cortona, Italy, 4-6 May 2005
- Σ96.** A. Doulamis and N. Doulamis, "Optimal Object-based Scalability for Video Content Adaptation according to a Usage Environment," *IEEE Workshop on Signal Processing Systems, Design and Implementation*, Athens, pp. 646-651 Greece, 2-4 November 2005
- Σ97.** N. Doulamis, A. Doulamis and D. Kosmopoulos, "Content-based Decomposition of Gesture Videos," *IEEE Workshop on Signal Processing Systems, Design and Implementation*, pp. 319-324, Athens, Greece, 2-4 November 2005
- Σ98.** N. Papadakis, A. Doulamis, D. Skoutas, A. Litke, N. Doulamis and T. Varvarigou, "Retrieving, Adapting and Delivering Multimedia Content Using a Mobile Agent Architecture," *In Proc. of the IEEE International Conference on Multimedia and Expo (ICME)*, pp. 458-461, Amsterdam, The Netherlands, July 2005
- Σ99.** D. I. Kosmopoulos, A. Doulamis, N. Doulamis, "Gesture-based Video Summarization," *in Proc. of the IEEE International Conference on Image Processing (ICIP)*, Vol. 3, pp. 1220-1223, Genoa, Italy, 11-14 Sept. 2005.
- Σ100.** A. Doulamis and N. Doulamis, "Adaptation of Video Content using Object Scalability," *Proc. of the VLVB 2005 Workshop*, Carliari, Sardenia, Italy, Sept. 2005.
- Σ101.** P. Karagiannis, N. Doulamis, G. Varkas, K. Paparrizos, "Self Configurable Queries for Digital Image Libraries," *IEEE International Conference on Multimedia and Expo (ICME)*, pp. 984 – 987, Amsterdam, The Netherlands, July 2005.
- Σ102.** Nikolaos Doulamis, "Context-Adaptive and User-Centric Facial Emotion Classification," *IEEE International Conference on Image Processing (ICIP)*, Vol. 2, pp. 53-56, Genoa, Italy, Sept. 2005.
- Σ103.** Nikolaos Doulamis, Panagiotis Karagiannis, Angelo Sifaleras and Konstantinos Paparrizos, "Dynamic Video Content Decomposition: An Efficient Scheme for Personalized Video Content Navigation over the Web," *European Workshop on Image Analysis for Interactive Multimedia Services (WIAMIS)*, Lauzanne, Switzerland, April 2005
- Σ104.** A. Doulamis, D. Kosmopoulos, N. Doulamis, "Content-Based Time Sampling for Efficient Video Delivery over Networks of Low and Variable Bandwidth," *IEEE International Conference on Digital Telecommunications*, Cote D' Azure, France August 2006
- Σ105.** Nikolaos Doulamis, "An Adaptable Emotionally Rich Pervasive Computing System," *European Signal Processing Conference (EUSIPCO)*, Florence, September 2006
- Σ106.** Anastasios Doulamis and Nikolaos Doulamis, "User-Centric Evolution of Multimedia Content Description," *European Signal Processing Conference (EUSIPCO)*, Florence, September 2006

- Σ107.** Nikolaos Doulamis, Carlos Ceacero, Luis Collantes and Dimitris Technonidis, “DESYME: Development System for Mobile Services,” *IST Mobile Summit*, Myconos Island, Greece, June 2006
- Σ108.** Dimitrios Tektonidis, Albert Bokma, Nikolaos Doulamis, “Utilizing Ontologies for enhancing Mobile Service Registries: The ONAR approach,” *IST Mobile Summit*, Myconos Island, Greece, June 2006
- Σ109.** Nikolaos D. Doulamis, Pantelis N. Karamolegkos, Anastasios D. Doulamis, Ioannis G. Nikolakopoulos, “Optimal Decomposition of P2P Networks based on File Exchange Patterns for Multimedia Content Search & Replication,” *ACM Workshop on Multimedia Information Retrieval, Conjunction with ACM Multimedia*, pp. 125-134, Augsburg, Germany, Sept. 2007.
- Σ110.** Nikolaos Doulamis, “Optimal Estimation of Descriptor Scales For Multimedia Retrieval,” *IEEE Workshop on Image Analysis for Interactive Multimedia Services (WIAMIS)*, pp. 78-81, Santorini, Greece, June 2007.
- Σ111.** P. Kokkinos, E. Varvarigos, N. Doulamis, “A Framework for Providing Hard Delay Guarantees in Grid Computing,” *IEEE International Conference of e-Science and Grid Computing*, Bangalore, India, pp. 271278 – 271285, Dec. 2007.
- Σ112.** Pantelis N. Karamolegkos, Charalampos Z. Patrikakis, Nikolaos D. Doulamis, Elias Z. Tragos, “User - Profile based Communities Assessment using Clustering Methods,” *IEEE 18th International Symposium on Personal, Indoor and Mobile Radio Communications*, Athens, Greece, Sept. 2007.
- Σ113.** Pantelis N. Karamolegkos, Charalampos Z. Patrikakis, Nikolaos D. Doulamis, “Adaptive User Communities Assessment in Personal Networking Applications,” *IEEE 18th International Symposium on Personal, Indoor and Mobile Radio Communications*, Athens, Greece, Sept. 2007.
- Σ114.** Nikolaos D. Doulamis, Pantelis N. Karamolegkos, Anastasios N. Doulamis, Emmanuel N. Protonotarios “Cluster-Based Proactive Replication of Multimedia Files in Peer-to-Peer Networks,” *IEEE Conference on Digital Information Management*, Vol. 1, pp. 368-375, Lyon, France, Oct. 2007.
- Σ115.** Nikolaos Doulamis, George Bardis, John Dragonas and Geogre Miaoulis, “Optimal Recursive Profile Estimation in collaborative Declarative Environments,” *IEEE Inter. Conference on Tools with Artificial Intelligence*, Vol. 2, pp. 424-427, Patras, Greece, Oct. 2007.
- Σ116.** Georgios Bardis, Nikolaos Doulamis, John Dragonas, Georgios Miaoulis, Dimitri Plemenos, “A Parametric Mechanism for Preference Consensus in a Collaborative Declarative Design Environment,” *International Conference on Computer Graphics and Artificial Intelligent*, Athens, Greece, 2007.
- Σ117.** Nikolaos D. Doulamis, Pantelis N. Karamolegkos, Anastasios D. Doulamis, Emmanouil N. Protonotarios, “Semantic Decomposition of Unstructured P2P Networks for Efficient Content Search,” *International Conference on Visual Information Engineering*, London, UK, 2007
- Σ118.** Νικόλαος Δουλάμης “Πανταχού Πολυμέσα: Τεχνικές Διαχείρισης, Οργάνωσης και Μετάδοσης Πολυμεσικών Δεδομένων και Υπηρεσιών,” Συνέδριο για την επιστημονική έρευνα στο Εθνικό Μετσόβιο Πολυτεχνείο, 5-8 Ιουλίου 2007, Πλωμάρι Λέσβου.
- Σ119.** K. Ntalianis, A. Doulamis, N. Tsapatsoulis and N. Doulamis “Human Action Analysis, Annotation and Modeling in Video Streams Based on Implicit User Interaction,” *ACM Workshop on Analysis and Retrieval of Events, Actions, Workflows in Video Streams in Conjunction with ACM Multimedia*, pp. 65-72, Vancouver, Canada, October 2008.

- Σ120.** K. S. Ntalianis, A. Doulamis, N. Tsapatsoulis and N. Doulamis, “Automatic Annotation of Multimedia Content by User Clickthroughs: Enhancing the Performance of Multimedia Search Engines,” in *Proceedings of the 10th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems (MAMECTIS '08)*, Corfu, Greece, October 2008.
- Σ121.** N. Doulamis, C. Psaltis and A. Doulamis, “Intellectual Property Rights Description in COSMOS, An Advanced Scientific Repository for Science Teaching and Learning,” *International Conference on Education, Research and Innovation, ICERI*, 17-19 November Madrid, 2008.
- Σ122.** K. Christodoulopoulos, N. Doulamis, E. Varvarigos, Joint Communication and Computation Scheduling in Grids,” *8th IEEE International Symposium on Cluster Computing and the Grid (CCGrid 2008)*, pp. 17-24, Lyon, France, May 2008. **(Best Paper Award)**.
- Σ123.** N. Papaoulakis, N. Doulamis, C. Patrikakis, E. Protonotarios and J. Soldatos “Real-Time Context-Aware and Personalized Media Environments for Large Scale Broadcasting Applications My-e-Director 2012,” *12th Annual IEEE International Symposium on Consumer Electronics*, Algarve, pp. 1-4, Portugal, April 2008.
- Σ124.** N. Papaoulakis, N. Doulamis, E. Protonotarios, “Real-Time Analysis and Personalized Media Streaming Environments for Large Scale Athletic Events,” *ACM Workshop on Analysis and Retrieval of Events, Actions, Workflows in Video Streams in Conjunction with ACM Multimedia*, Vancouver, Canada, pp. 105-111, Oct. 2008.
- Σ125.** N. Doulamis, V. Vescoukis, A. Georgopoulos, “Angle Spectrum for Estimation of Trajectory Deviation using combined Tracking and Neural Network Labeling,” *ACM Workshop on Analysis and Retrieval of Events, Actions, Workflows in Video Streams in Conjunction with ACM Multimedia*, pp. 25-32, Vancouver, Canada Oct. 2008.
- Σ126.** N. Doulamis, C. Psaltis, A. Georgopoulos, M. Sotiriou and I. Doxaras, “The COSMOS Approach for Teaching Science: An Architecture that Combines IEEE LOM compatible Content with Multilingual Science Educational Vocabularies and Rights” *European Conference on e-Learning*, Agia Napa, Cyprus, Oct. 2008.
- Σ127.** N. Doulamis, C. Psaltis, A. Georgopoulos, A. Valanis, M. Sotiriou and I. Doxaras, “Advanced Repositories for Science Teaching and Learning (the COSMOS Project)” *11th International Conference on Interactive Computer aided Learning*, Villach, Austria, Sept. 2008.
- Σ128.** N. Doulamis, P. Kokkinos, E. Varvarigos, “Spectral Clustering Scheduling Techniques for Tasks with Strict QoS Requirements,” *14th Inter. Conference on Parallel and Distributed Systems*, Canary Island, Spain August 2008.
- Σ129.** N. Doulamis, J. Dragonas, A. Doulamis, G. Miaoulis, D. Plemenos, “Performance Evaluation of User’s Profile Estimation Methods in a Declarative Collaborative Framework,” *International Conference on Computer Graphics and Artificial Intelligent*, Athens, 2009
- Σ130.** M. Sardis, V. Anagnostopoulos, N. Doulamis “Applied Surveillance using Biometrics on Agents Infrastructures,” *5th IFIP Conference on Artificial Intelligence Applications & Innovations, Workshop on Artificial Intelligence Approaches for Biometric*, Thessaloniki, 23-25 April, 2009
- Σ131.** V. Anagnostopoulos, N. Doulamis and A. Doulamis, “Edge-Motion Video Summarization: Economical Video Summarization for Low Powered Devices,” *IEEE International Workshop on Image Analysis for Interactive Multimedia Service*, London, 6-8 May, 2009

- Σ132.** N. Doulamis “Evacuation Planning through Cognitive Crowd Tracking,” IEEE International Workshop on Workshop on Systems, Signal and Image Processing (IWSSIP), Halkida, Greece, 18-20 June 2009.
- Σ133.** N. Doulamis, K. Ntalianis, “On the fly Semantic Annotation and Modelling of Multimedia” IEEE International Workshop on Workshop on Systems, Signal and Image Processing (IWSSIP), Halkida, Greece, 18-20 June 2009.
- Σ134.** K. Ntalianis, A. Doulamis, N. Tsapatsoulis, N. Doulamis, “Unsupervised clustering of clickthrough data for automatic annotation of multimedia content,” *Lecture Notes in Computer Science, International Conf. on Artificial Neural Networks*, 5769 LNCS (PART 2), pp. 895-904, 2009.
- Σ135.** P. Karamolegkos, N. Doulamis, “Multimedia file exchange and P2P social networking: Efficient allocation of users into communities of interest,” *IEEE International Conference on Ultra Modern Telecommunications and Workshops*, 12-14 Oct. 2009.
- Σ136.** A. Doulamis, N. Doulamis, J. Dragonas, G. Miaoulis and D. Plemenos, “Robust Foreground Detection and Tracking using Dynamic Foreground-Background Modeling Based on Adaptive Boosting,” *International Conference on Computer Graphics and Artificial Intelligence (3ia)*, Athens, Greece, May 2010
- Σ137.** N. Doulamis, E. Chronis, A. Doulamis, G. Miaoulis and D. Plemenos, “Incorporating Viewpoint Entropy into the S-PDB viewer for Selecting Optimal 3D object Views,” *International Conference on Computer Graphics and Artificial Intelligence (3ia)*, Athens, Greece, May 2010
- Σ138.** N. Doulamis, A. Voulodimos, D. Kosmopoulos, T. Varvarigou, “Enhanced human behavior recognition using HMM and Evaluative Rectification,” *ACM Multimedia Workshops - Analysis and Retrieval of Tracked Events and Motion in Imagery Streams*, pp. 39-44, 25-28 Oct. Florence Italy, 2010.
- Σ139.** R. Mörzinger, M. Thaler, S. Rene, H. Albert, G. Thallinger, S. Sardis, V. Anagnostopoulos, D. Kosmopoulos, A. Voulodimos, C., Lalos, N. Doulamis, T. Varvarigou, I. Rosenberg, R.P. Zelada, R.P., I.S. Jubert, H. Grabner, S. Stalder, L. Van Gool, G. Veres, L. Middleton, Z/ Sabeur, I. Bouchrika, B. Arbab-Zavar, J. Carter, M. Nixon, “Tools for semi-automatic monitoring of industrial workflows,” *ACM Multimedia Workshops - Analysis and Retrieval of Tracked Events and Motion in Imagery Streams*, pp. 81-86, 25-28 Oct. Florence Italy, 2010.
- Σ140.** N. Doulamis, “Visual fall alert service in low computational power device to assist persons' with dementia,” *IEEE 3rd International Symposium on Applied Sciences in Biomedical and Communication Technologies*, ISABEL, Rome, Italy, 5702871, 2010.
- Σ141.** A. Doulamis, N. Doulamis, I. Kalisperakis, and C. Stentoumis, “A real-time single-camera approach for automatic fall detection,” *In International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, XXXVIII (5), Commission V Symposium, Newcastle upon Tyne, UK pp. 207-212, 2010.
- Σ142.** N. Doulamis, “Iterative motion estimation constrained by time and shape for detecting persons' falls,” *ACM International Conference on Pervasive Technologies Related to Assistive Environments*, pp. 62, 2010.
- Σ143.** N. Doulamis, J. Dragonas, D. Pliota, G. Miaoulis, D. Plemenos, “Social Declarative Modelling: A new framework for Efficient Object Retrieval,” *International Conference on Computer Graphics and Artificial Intelligence (3ia)*, Athens, Greece, May 2011

- Σ144.** M. Ade, N. Doulamis, S.S. Wagle, and M. G. Ullah, "TeleHealth: Healthcare Technologies and TeleHealth Emergency (THE) System," *IEEE International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE)*, 5940868, 28 February-3 March 2011.
- Σ145.** M. Ade, N. Doulamis, S.S. Wagle, M.G., Ullah, "Collaboration of P4P and IMS: Solution to P2P challenges," *IEEE International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE)*, 5940868, 28 February-3 March 2011.
- Σ146.** V. Vescoukis, and N. D. Dulamis, "Disaster management evaluation and recommendation. In Games and Virtual Worlds for Serious Applications," *IEEE International Conference on Virtual Worlds and Games for Serious Applications*, pp. 244-249, Athens, Greece, May 2011.
- Σ147.** S.S. Wagle, N. Doulamis, M. Ade, M.G. Ullah, "Performance analysis of IP Multimedia Subsystem (IMS) signaling in heterogeneous access networks," *IEEE International Conference on Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE)*, 5940868, 28 February-3 March 2011.
- Σ148.** N. Doulamis, "Semantic -based QoS provisioning for Wireline and Wireless Networks," Proceedings of the 11th international conference on Applications of Electrical and Computer Engineering, pp. 107-112, Athens, Greece — March 07 - 09, 2012.
- Σ149.** B. Massinas, N. Doulamis, and D. Paradissis, "Adaptive Non-Linear Modeling for Ionospheric Disturbances Behavior Estimation on Spaceborne Synthetic Aperture Radar Interferometry," *In AIAA SPACE 2012 Conference and Exposition*, Pasadena, California, Sept. 2012.
- Σ150.** N. Doulamis, "Intelligent Parking Reservation Policies," Proceedings of the IADIS International Conference Applied computing, Madrid Spain, 19-21 Oct., 2012.
- Σ151.** Nikolaos Doulamis and Anastasios Doulamis, "Fast and Adaptive Deep Fusion Learning for Detecting Visual Objects," *European Conference on Computer Vision Workshop*, Florence, Italy, pp. 345-354, October 2012, Published in Lecture Notes in Computer Science.
- Σ152.** Nikolaos Doulamis, Christos Yiakoumettis and George Miaoulis, "On-line Spectral Learning in Exploring 3D Large Scale Geo-referred Scenes," *International Conference on Cultural Heritage, Limassol Cyprus*, pp. 109-118, published in Lecture Notes in Computer Science 2012.
- Σ153.** S. Soursos, N. Doulamis, "Connected TV and beyond," *2012 IEEE Consumer Communications and Networking Conference*, CCNC, pp. 582-286, 2012.
- Σ154.** Konstantinos Makantasis, Anastasios Doulamis, Nikolaos Doulamis, "A Non-parametric Unsupervised Approach for Content Based Image Retrieval and Clustering," *Proceedings of the 4th ACM International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Stream in conjunction with ACM Multimedia*, pp. 33-40, Barcelona, October 2013.
- Σ155.** Marinos Ioannides, Andreas Hadjiprocopis, Nikolaos Doulamis, Anastasios Doulamis, Eftychios Protopapadakis, Kostas Makantasis, Pedro Santos, Dieter Fellner, Andre Stork, Olivier Balet, Martine J. Julien, Guenther Weinlinger, Paul S. Johnson, Michael Klein, Dieter Fritsch, " On-Line 4D Reconstruction Using Multi-Images Available Under Open Access," *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, (1):169–174, Strasbourg, 2-6 September 2013. **Best Paper Award.**

- Σ156.** Klimis Ntalianis, Anastasios Doulamis, Nikolaos Doulamis and Nicolas Tsapatsoulis, "Video Abstraction in Social Media: Augmenting Facebook's Edgerank Algorithm in Video Content Presentation," *IEEE International Conference on Image Processing, (ICIP)* pp. 2684-2688, 15-18 September, Melbourne, Australia, 2013.
- Σ157.** Anastasios Doulamis, Marinos Ioannides, Nikolaos Doulamis, Andreas Hadjiprocopis, Dieter Fritsch, Olivier Balet, Martine Julien, Eftychios Protopapadakis, Kostas Makantasis, Guenther Weinlinger, Paul S.Johnsons, Michael Klein, Dieter Fellner, Andre Stork and Pedro Santos, "4D Reconstruction of the Past," *Proceedings of SPIE - The International Society for Optical Engineering*, 8795-87950J, 2013
- Σ158.** Konstantinos Makantasis, Anastasios Doulamis, Nikolaos Doulamis, "Vision-Based Maritime Surveillance System Using Fused Visual Attention Maps and Online Adaptable Tracker," *IEEE International Workshop on Interactive Image Analysis for Multimedia Services (WIAMIS)*, Paris, France May 2013.
- Σ159.** Eftychios E. Protopapadakis, Anastasios D. Doulamis, Nikolaos D. Doulamis, "Tapped Delay Multiclass Support Vector Machines for Industrial Workflow Recognition," *IEEE International Workshop on Interactive Image Analysis for Multimedia Services (WIAMIS)*, Paris, France May 2013.
- Σ160.** G. Kyriakaki, N. Doulamis, "Metadata framework for long-term preservation of digital cultural experiences: the 'Viopolis' case," *Proceedings of the 11th international conference on Applications of Electrical and Computer Engineering*, Athens, Greece, May 2013.
- Σ161.** Basil A. Massinas, Anastasios Doulamis, Nikolaos Doulamis and Demitris Paradissis "An Echo State Network for Ionospheric Disturbances Behavior Modeling on Spaceborne Interferometric Synthetic Aperture Radar," *AIAA SPACE 2013 Conference and Exposition*, San Diego, California, USA
- Σ162.** A. Voulodimos, N.D. Doulamis, S. Tafarakis, "Behavior recognition from video based on human constrained descriptor and adaptable neural networks," *Proceedings of the 4th ACM International Workshop on Analysis and Retrieval of Tracked Events and Motion in Imagery Stream in conjunction with ACM Multimedia*, pp. 59-66, Barcelona, October 2013.
- Σ163.** P. Kokkinos, K. Koumoutsos, N. Doulamis, E. Varvarigos, D. Petrantonakis, M. Kardara, E. Sardis, A.Vekris, S. Gerontidis, PERIKLIS - Electronic Democracy in the 21st Century Using Mobile and Social Network Technologies," *Fifth international conference on eParticipation (ePart 2013)*, Koblenz, Germany, Sept. 2013, *also published in Lectures Notes in Computer Science*.
- Σ164.** N. Doulamis, E. Protopapadakis, L. Lambrinos, "Improving Service Quality for Parking Lot Users Using Intelligent Parking Reservation Policies," *IEEE 27th International Conference on Advanced Information Networking and Applications Workshops (WAINA)*, Barcelona, Spain, 2013.
- Σ165.** N. Doulamis, C. Yiakoumettis, G. Miaoulis, E. Protopapadakis "A Constraint Inductive Learning- Spectral Clustering Methodology for Personalized 3D Navigation," *International Symposium on Visual Computing*, Rethymnon, Crete, 2013 *also published in Lectures Notes in Computer Science*.
- Σ166.** N. Doulamis, M. Papadogiorgaki, M. Zervakis, "Texture Driven Mathematical Modeling for Brain Tumor Evolution," *ACM Proceedings of the 7th International Conference on Pervasive Technologies Related to Assistive Environments*, 2013.
- Σ167.** N. Doulamis, C. Yiakoumettis, G. Miaoulis, "Personalised 3D navigation and understanding of Geo-referenced Scenes," *2013 IEEE 14th International Symposium on a World of Wireless, Mobile and Multimedia Networks, WoWMoM 2013*, 4-7 June, Spain, 2013.

- Σ168.** Panagiotis Agraftotis, Anastasios Doulamis, Nikolaos Doulamis, Andreas Georgopoulos, "Multi-sensor Target Detection and Tracking system for Sea Ground Borders Surveillance," *ACM Proceedings of the 7th International Conference on Pervasive Technologies Related to Assistive Environments*, pp. 757-769, May 27-30, Rhodes, 2014.
- Σ169.** Konstantinos Makantasis, Anastasios Doulamis, Nikolaos Doulamis, Marinos Ioannides, Nikolaos Matsatsinis, "Content-Based Filtering for Fast 3D Reconstruction from Unstructured Web-Based Image Data," *International Conference on Cultural Heritage*, pp. 91-101, Limassol, Cyprus, 2014 published in *Lectures Notes in Computer Science*, Springer Press.
- Σ170.** Nikolaos Doulamis and Anastasios Doulamis, "Semi-Supervised Deep Learning For Object Tracking and Classification," *IEEE International Conference on Image Processing (ICIP)*, pp. 848-852, Paris, France, 2014
- Σ171.** Christos Papageorgiou, Kostas Christodoulopoulos, Nikos Doulamis, Emmanouel Varvarigos "On Least Expected Transmissions Multicasting in Wireless Networks," *IEEE International Conference on Computing, Networking and Communications*, Hawaii, USA, 306 February 2014.
- Σ172.** P. Agraftotis, A. Georgopoulos, A. Doulamis, and N.D. Doulamis, "Precise 3D Measurements for Tracked Objects from Pairs of Synchronized Video Sequences," *In Proceedings of the 11th International Conference Applied Computing 2014*, (pp. 101-108). IADIS Press. ISBN: 978-989-8533-25-8, 2014.
- Σ173.** E. Sardis, G. Kyriakaki, N. Doulamis, V. Anagnostopoulos, T. Varvarigou, "From 2D to 3D and 4D using timelines in mobile cultural experiences," *International Conference on Cultural Heritage*, pp. 91-101, Limassol, Cyprus, 2014.
- Σ174.** P. Agraftotis, A. Georgopoulos, A. Doulamis, and N.D. Doulamis, "Precise 3D Measurements for Tracked Objects from Synchronized Stereo-Video Sequences," *International Symposium on Visual Computing*, pp. 757-769, Las Vegas, USA Springer International Publishing, 2014.
- Σ175.** Basil A. Massinas, Anastasios Doulamis, Nikolaos Doulamis and Demetris Paradissis, "Applied Optimal Estimation for Ionospheric Disturbances Behavior on Spaceborne Interferometric Synthetic Aperture Radar Systems," *AIAA SPACE 2015 Conference and Exposition*, Sept, Pasadena, California, USA, 2015.
- Σ176.** A. Doulamis, N. Doulamis, C. Ioannidis, C. Chrysouli, N. Grammalidis, K. Dimitropoulos, C. Potsiou, E.K. Stathopoulou, M. Ioannides, "5D Modelling: An Efficient Approach For Creating Spatiotemporal Predictive 3d Maps Of Large-Scale Cultural Resources," *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, 2(5), 61, Taipei, Taiwan, 2015.
- Σ177.** D. Kyriazis, N. Doulamis, G. Kousiouris, M. Themistocleous, V. Vescoukis, "Employing Relevance Feedback to embed Content and Service Importance into the Selection Process of Composite Cloud Services," *12th International Conference of the Economics of the Grid, Cloud and Services*, 15-17 Sept. Cluj-Napoca, Romania, 2015.
- Σ178.** V. Botsis, N. Doulamis, A. Doulamis, P. Makris, E. Varvarigos, "Efficient Clustering of DERs in a Virtual Association for Profit Optimization. In Digital System Design (DSD)," *IEEE Euromicro Conference*, pp. 494-501, Madeira, Portugal, August 26-28, 2015.
- Σ179.** Z. Kandyllakis, K. Karantzas, A. Doulamis, N. Doulamis, "Multiple Object Tracking with Background Estimation in Hyperspectral Video Sequences," *IEEE Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Tokyo, Japan, 2-5 June, 2015. **(Best Paper Award)**.
- Σ180.** Z. Sabeur, N. Doulamis, L. Middleton, B. Arbab-Zavar, G. Correndo, A. Amditis, "Multi-modal computer vision for the detection of multi-scale crowd physical motions and behavior in confined spaces,"

International Symposium on Visual Computing, Las Vegas, Dec. 2015, 9474, pp. 162-173, also *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*.

Σ181. E. Protopapadakis, N. Doulamis, “Image based approaches for tunnels’ defects recognition via robotic inspectors,” *International Symposium on Visual Computing*, Las Vegas, Dec. 2015, 9474, pp. 706-716, also *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*.

Σ182. A. Doulamis, S. Soile, N. Doulamis, C. Chrisouli, N. Grammalidis, K. Dimitropoulos, C. Manesis, C. Potsiou, C. Ioannidis, “Selective 4D modelling framework for spatial-temporal land information management system,” *Proceedings of SPIE - The International Society for Optical Engineering*, 9535, Paphos, Cyprus, 2015.

Σ183. N. Doulamis, A. Doulamis, K. Makantasis, K. Karantzalos, K. Loupos, “Micro-scale thermal behavioral analysis for active evacuation routes,” *8th ACM International Conference on Pervasive Technologies Related to Assistive Environments, PETRA 2015*, Article No. 50, Corfu, Greece, 01-03 July 2015.

Σ184. V. Botsis, N.D. Doulamis, A.D. Doulamis, E. Varvarigos, “Demand allocation in local RES electricity market among multiple microgrids and multiple utilities through aggregators,” *IEEE Symposium on Computers and Communications*, 6-9 July, Larnaca, Cyprus, 2015.

Σ185. V. Botsis, N. Doulamis, E. Varvarigos, “Fair Pricing Mechanism for Coalitions in Rural Areas,” *IEEE Symposium on Computers and Communications*, 6-9 July, Larnaca, Cyprus, 2015.

Σ186. Anastasios Doulamis, Nikolaos Doulamis, Konstantinos Makantasis and Michael Klein, “A 4D Virtual/Augmented Reality Viewer Exploiting Unstructured Web-based Image Data,” *10th International Conference on Computer Vision, Theory and Applications, VISAPP*, Berlin, March 2015

Σ187. E. Protopapadakis, K. Makantasis, N. Doulamis, “Maritime targets detection from ground cameras exploiting semi-supervised machine learning,” *10th International Conference on Computer Vision Theory and Applications; VISIGRAPP*, pp. 583-594, Berlin, Germany, March 2015.

Σ188. K. Makantasis, E. Protopapadakis, A. Doulamis, N. Doulamis, and C. Loupos, “Deep convolutional neural networks for efficient vision based tunnel inspection,” *IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)*, pp. 335-342, 2015.

Σ189. K. Makantasis, K. Karantzalos, A. Doulamis, N., Doulamis, “Deep supervised learning for hyperspectral data classification through convolutional neural networks,” *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, art. no. 7326945, pp. 4959-4962, November 2015.

Σ190. C. Ioannidis, C. Potsiou, S., Soile, S. Verykokou, G. Mourafetis, N. Doulamis, “Technical aspects for the creation of a multi-dimensional land information system,” *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 41, pp. 115-122, Prague 2016.

Σ191. C. Stentoumis, E. Protopapadakis, A. Doulamis, N. Doulamis, “A holistic approach for inspection of civil infrastructures based on computer vision techniques,” *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 41, pp. 131-138, Prague 2016.

Σ192. B.A. Massinas, A. Doulamis, N., Doulamis, D., Paradissis, “Ensemble classifiers in optimal estimation for ionospheric disturbances behavior on spaceborne interferometric SAR systems,” *AIAA Space and Astronautics Forum and Exposition*, SPACE 2016, Long Beach, California USA 2016.

Σ193. N. Doulamis “Vision Based Fall Detector Exploiting Deep Learning,” *9th ACM international Conference on Pervasive Technologies Related to Assistive Environments*, Corfu, July 2016.

Σ194. N. Doulamis, A. Voulodimos, A., “FAST-MDL: Fast Adaptive Supervised Training of multi-layered deep learning models for consistent object tracking and classification,” *IEEE International Conference on Imaging Systems and Techniques (IST)*, Proceedings, art. no. 7738244, pp. 318-323, 2016.

Σ195. S. Georgousis, C. Stentoumis, N. Doulamis, A. Voulodimos, “A hybrid algorithm for dense stereo correspondences in challenging indoor scenes,” *IEEE International Conference on Imaging Systems and Techniques*, Proceedings, art. no. 7738270, pp. 460-465, 2016.

Σ196. A. Voulodimos, N. Doulamis, A. Doulamis, C. Lalos, C. Stentoumis, C., “Human tracking driven activity recognition in video streams,” *IEEE International Conference on Imaging Systems and Techniques*, Proceedings, art. no. 7738287, pp. 554-559, 2016.

Σ197. K. Loupos, A. Amditis, P. Chrobocinski, R. Montero, L. Belsito, R. Lopez, N. Doulamis, “Autonomous Robot for Tunnel Inspection and Assessment,” *6th International Symposium on Tunnels and Underground Structures in SEE 2016* March 16-18, Radisson Blu Resort, Split, Croatia, 2016.

Σ198. E. Protopapadakis, K. Makantasis, G. Kopsiaftis, N. Doulamis, A. Amditis, “Crack Identification Via User Feedback, Convolutional Neural Networks and Laser Scanners for Tunnel Infrastructures,” *11th International Conference on Computer Vision Theory and Applications; VISIGRAPP*, Rome, Italy, February 2016.

Σ199. N. Doulamis, A. Voulodimos, D. Preka, Ch. Ioannidis, Ch. Potsiou and D. Fritsch, “An efficient framework for spatiotemporal 4D monitoring and management of real property,” *High-Level Joint FIG/World Bank Conference on Sustainable Real Estate Markets - Policy Framework and Necessary Reforms*, at Athens, Greece.

Σ200. Konstantinos Makantasis, Anastasios Doulamis, Nikolaos Doulamis, Konstantinos Psychas, “Deep Learning Based Human Behavior Recognition In Industrial Workflows,” *IEEE International Conference on Image Processing (ICIP)*, Arizona, USA, Sept. 2016.

XI. Επίβλεψη Υποψηφίων Διδακτόρων

- Κωνσταντίνος Μακανάρης, Σχολή Αγρονόμων, Τοπογράφων Μηχανικών, ΕΜΠ
- Ιωάννης Ράλλης, Σχολή Αγρονόμων, Τοπογράφων Μηχανικών, ΕΜΠ

XII. Αξιοποίηση Επιστημονικού Έργου Από Άλλους Ερευνητές (citations)

Ο κ. Δουλάμης έχει τις εξής αναφορές

- 1) scopus index: **946 exclude citations from all authors, h-index 17.** (1348 in total)
- 2) scholar google **2788, h-index 24, g-index 45**