

**ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ
ΚΑΙ
ΥΠΟΜΝΗΜΑ ΑΚΑΔΗΜΑΪΚΗΣ ΚΑΙ
ΕΠΑΓΓΕΛΜΑΤΙΚΗΣ ΔΡΑΣΤΗΡΙΟΤΗΤΑΣ**

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Τμήμα Πολιτικών Μηχανικών
Πανεπιστήμιο Θεσσαλίας

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Physique, Ingénierie, Terre, Environnement, Mécanique
Joseph Fourier Université-Grenoble I

Οκτώβριος 2015

I.1. ΠΡΟΣΩΠΙΚΑ ΔΕΔΟΜΕΝΑ

Όνομα:	Αθανάσιος Γ. Λουκάς
Ημερομηνία γέννησης:	4 Δεκεμβρίου 1964
Τόπος γέννησης:	Θεσσαλονίκη
Ταχυδρομική διεύθυνση οικίας:	Μητροπολίτου Γρηγορίου 75 38334 Βόλος
Ταχυδρομική διεύθυνση εργασίας:	Τμήμα Πολιτικών Μηχανικών Πανεπιστήμιο Θεσσαλίας Πεδίον Άρεως 38334 Βόλος
Email:	aloukas@civ.uth.gr
Τηλέφωνο εργασίας:	24210-74168
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I.2. ΕΚΠΑΙΔΕΥΣΗ**α) The University of British Columbia, 1991-1994**

Διδακτορικό Δίπλωμα (Ph.D.) στην Υδρολογία και στους Υδατικούς Πόρους
 Ερευνητική Περιοχή: Τεχνική Υδρομετεωρολογία και Επιφανειακή Υδρολογία
 Επιβλέπων Καθηγητής: Dr. Michael C. Quick, Καθηγητής
 Τίτλος Διδακτορικής Διατριβής: Mountain Precipitation Analysis for the Estimation of Flood Runoff in Coastal British Columbia.

β) The University of British Columbia, 1989-1991

Μεταπτυχιακό Δίπλωμα (M.A.Sc.) στην Υδρολογία και στους Υδατικούς Πόρους
 Ερευνητική Περιοχή: Επιφανειακή Υδρολογία
 Επιβλέπων Καθηγητής: Dr. Michael C. Quick, Καθηγητής
 Τίτλος Μεταπτυχιακής Διατριβής: Analysis of the Response and the Rainfall Distribution in a Mountainous Watershed.

γ) Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 1983-1988

Δίπλωμα Αγρονόμου Τοπογράφου Μηχανικού
 Ερευνητική Περιοχή: Ροές σε Ακόρεστα Πορώδη Μέσα
 Επιβλέπων Καθηγητής: Δρ. Παναγιώτης Τολίκας, Αναπληρωτής Καθηγητής
 Τίτλος Διπλωματικής Εργασίας: Απλοποιημένες Τεχνικές για την Επίλυση Προβλημάτων Οριζόντιας Διήθησης.

I.3. ΒΡΑΒΕΙΑ ΚΑΙ ΥΠΟΤΡΟΦΙΕΣ**1) Μεταπτυχιακές Σπουδές**

- University of British Columbia Graduate Fellowship, 1989-1994
- Υποτροφία του Επιστημονικού Προγράμματος του Ν.Α.Τ.Ο., 1989-1991
- Υποτροφία του Ιδρύματος "Αλέξανδρος Σ. Ωνάσης", 1989-1990
- Earl R. Peterson Memorial Scholarship in Civil Engineering, 1991
- Υποτροφία του Επιστημονικού Προγράμματος του Ν.Α.Τ.Ο. , 1991-1994

2) Προπτυχιακές Σπουδές

- Υποτροφία του Ιδρύματος Κρατικών Υποτροφιών, 1984-1988
- Υποτροφία του Ιδρύματος Κ. Βέλλιου-Βαρώνου, 1984-1988
- Βραβείο της Εργατικής Εστίας, 1984-1988
- Βραβείο του Τεχνικού Επιμελητηρίου Ελλάδος, 1988

3) Επαγγελματική Ακαδημαϊκή Περίοδος

- Fulbright Foundation Research Scholar Scholarship, Colorado State University, Department of Civil and Environmental Engineering, 2013
- Joseph Fourier University, Laboratoire d'étude des Transferts en Hydrologie et Environnement (LTHE), Invited Researcher (Professor 1st class), 2013

I. 4. ΔΙΔΑΚΤΙΚΗ ΚΑΙ ΕΡΕΥΝΗΤΙΚΗ ΕΜΠΕΙΡΙΑ

1) Καθηγητής, Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 2011 – σήμερα

- Οργάνωση και διδασκαλία των προπτυχιακών μαθημάτων: Υδρολογία, Υδρολογική Προσομοίωση και Πρόγνωση, Ταμειυτήρες και Φράγματα, Εφαρμογές Προσομοίωσης σε Υδροσυστήματα (μεταπτυχιακό μάθημα), Ανάλυση Επικινδυνότητας και Λήψη Αποφάσεων στα Υδατικά Συστήματα (μεταπτυχιακό μάθημα), Πλημμύρες (μεταπτυχιακό μάθημα), Πρόγνωση Υδρομετεωρολογικών Κινδύνων (μεταπτυχιακό μάθημα).

2) Επισκέπτης Καθηγητής, Τμήμα Αγρονόμων και Τοπογράφων Μηχανικών, Πανεπιστημίου Θεσσαλίας, 2015-σήμερα

- Οργάνωση και διδασκαλία των προπτυχιακών μαθημάτων: Υδρολογία και Υδραυλική Ανοικτών Αγωγών

3) Αναπληρωτής Καθηγητής, Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 2005 – 2011

- Οργάνωση και διδασκαλία των προπτυχιακών μαθημάτων: Υδρολογία, Υδρολογία II, Ταμειυτήρες και Φράγματα, Εφαρμογές Προσομοίωσης σε Υδροσυστήματα (μεταπτυχιακό μάθημα), Πλημμύρες (μεταπτυχιακό μάθημα), Πρόγνωση Υδρομετεωρολογικών Κινδύνων (μεταπτυχιακό μάθημα).

4) Συμβασιούχος Επίκουρος και Αναπληρωτής Καθηγητής (ΠΔ 407/80), Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 1997 - 2004

- Οργάνωση και διδασκαλία των μαθημάτων: Γεωδαισία I, Γεωδαισία II και Μεγάλες Γεωδαιτικές Ασκήσεις, Ιστορία της Τεχνολογίας, Διευθετήσεις Ποταμών και Χειμάρρων, Υδρολογία, Υδρολογία II,

5) Συμβασιούχος Αναπληρωτής Καθηγητής (ΠΔ 407/80), Τμήμα Γεωπονίας Φυτικής Παραγωγής και Αγροτικού Περιβάλλοντος, Πανεπιστήμιο Θεσσαλίας, 2004

- Οργάνωση και διδασκαλία των μαθημάτων: Τοπογραφία

6) Συμβασιούχος Επίκουρος Καθηγητής (ΠΔ 407/80), Τμήμα Γεωπονίας Ζωϊκής Παραγωγής και Υδάτινου Περιβάλλοντος, Πανεπιστήμιο Θεσσαλίας, 2003

- Οργάνωση και διδασκαλία των μαθημάτων: Τοπογραφία-Χαρτογραφία, Αειφορική Διαχείριση Υδατικών Πόρων

7) Διδάσκων, Πρόγραμμα Σπουδών Επιλογής «Διαχείριση Αγροτικού Περιβάλλοντος και Φυσικών Πόρων», Πανεπιστήμιο Θεσσαλίας, 2000 - 2003

- Οργάνωση και διδασκαλία των μαθημάτων: Τοπογραφία-Χαρτογραφία, Διάθεση Υγρών Αποβλήτων και Προστασία Υδάτινου Περιβάλλοντος, Υδρολογία, Κλιματική Μεταβλητότητα και Φυσικοί Πόροι, Φυσικοί Περιβαλλοντικοί Κίνδυνοι, Διαχείριση Υδατικών Πόρων, Διάβρωση και Προστασία Χερσαίου Περιβάλλοντος – Φερτές Ύλες, Εφαρμογές Νέων Τεχνολογιών στο Σχεδιασμό του Αγροτικού Περιβάλλοντος

8) Επιστημονικός Συνεργάτης, Τμήμα Πολιτικών Έργων Υποδομής, Τ.Ε.Ι. Λάρισας, 1997–2000

- Οργάνωση και διδασκαλία του μαθήματος: Υδροδυναμικά Έργα – Φράγματα

9) Εκπαιδευτής, 1ο Ινστιτούτο Επαγγελματικής Κατάρτισης Θεσσαλονίκης (Ι.Ε.Κ.), 1996- 1998

- Οργάνωση, διδασκαλία και συγγραφή σημειώσεων για τα μαθήματα της ειδικότητας «Ειδικός Γεωγραφικών Συστημάτων Πληροφοριών»

10) Συμβασιούχος Καθηγητής, Σχολή Υπαξιωματικών Διοικητικών Αεροπορίας, 1996- 1998

- Οργάνωση και διδασκαλία των μαθημάτων: Τοπογραφία, Τοπογραφία-Χάρτες

11) Μεταδιδακτορικός Ερευνητικός Συνεργάτης (Post Doctoral Research Associate), University of British Columbia, 1994 -1995

12) Βοηθός Διδασκαλίας/Διορθωτής, University of British Columbia, 1989-1995

- Βοηθός διδασκαλίας στα εργαστήρια των μαθημάτων: Υδραυλική Ανοικτών και Κλειστών Αγωγών, Μηχανικής Ρευστών, Τοπογραφία

I. 5. ΕΠΙΒΛΕΨΗ ΔΙΔΑΚΤΟΡΙΚΩΝ ΚΑΙ ΜΕΤΑΠΤΥΧΙΑΚΩΝ ΔΙΑΤΡΙΒΩΝ ΚΑΙ ΔΙΠΛΩΜΑΤΙΚΩΝ ΕΡΓΑΣΙΩΝ

Κύριος επιβλέπων καθηγητής έξι (6) Διδακτορικών Διατριβών και είκοσι (20) Μεταπτυχιακών Εργασιών Ειδίκευσης. Μέλος συμβουλευτικών επιτροπών επίβλεψης δεκάπεντε (15) Διδακτορικών Διατριβών και δέκα (10) Μεταπτυχιακών Εργασιών Ειδίκευσης. Μέλος πολλών εξεταστικών επιτροπών Διδακτορικών Διατριβών, Μεταπτυχιακών Εργασιών Ειδίκευσης και Διπλωματικών Εργασιών

Κύριος επιβλέπων καθηγητής 22 Διπλωματικών Εργασιών.

I. 6. ΑΚΑΔΗΜΑΪΚΗ ΔΙΟΙΚΗΤΙΚΗ ΕΜΠΕΙΡΙΑ

1) Πρόεδρος Τμήματος Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 2008 – 2012

2) Διευθυντής (για την Ελλάδα) του κοινού Ελληνογαλλικού Προγράμματος Μεταπτυχιακών Σπουδών «Διαχείριση Υδρομετεωρολογικών Κινδύνων – HYDROHASARDS», 2010 – σήμερα

3) Υπεύθυνος (Διευθυντής) του Εργαστηρίου Υδρολογίας και Ανάλυσης Υδατικών Συστημάτων, 2008-σήμερα

4) Μέλος της Συγκλήτου του Πανεπιστημίου Θεσσαλίας, 2008-2012

5) Μέλος των επιτροπών του Πανεπιστημίου Θεσσαλίας, όπως Επιτροπή Στρατηγικού Σχεδιασμού και Ανάπτυξης, Επιτροπής Ευρωπαϊκών Προγραμμάτων και Διεθνών Σχέσεων (Erasmus), Δ.Σ. Εταιρίας Διαχείρισης Περιοσίας Πανεπιστημίου Θεσσαλίας Α.Ε., μεταξύ άλλων, 2005-σήμερα.

6) Μέλος επιτροπών του Τμήματος Πολιτικών Μηχανικών του Πανεπιστημίου Θεσσαλίας (Υπεύθυνος Τμήματος για το πρόγραμμα Erasmus, Ομάδα Εσωτερικής Αξιολόγησης Τμήματος (OMEA), μεταξύ άλλων), 2005-σήμερα.

I. 7. ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

1) Διοικητικός και Οικονομικός Διευθυντής και Διαχειριστής του Προγράμματος Σπουδών Επιλογής «Διαχείριση Αγροτικού Περιβάλλοντος και Φυσικών Πόρων», Πανεπιστήμιο Θεσσαλίας, 1998 – 2003

2) Επαγγελματίας Σύμβουλος Μηχανικός, Θεσσαλονίκη, 1996 – 2005

- Επιστημονικός συνεργάτης – Σύμβουλος σε: α) δεκαπέντε (15) υδρολογικών και υδραυλικών μελετών (ταμιευτήρες-φράγματα, έργα ύδρευσης αποχέτευσης, διευθετήσεις ποταμών και χειμάρρων, κλπ), β) δεκατέσσερες (14) μελέτες περιβαλλοντικών επιπτώσεων, και γ) έξι (6) τοπογραφικές μελέτες.

I. 8. ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΡΕΥΝΗΤΙΚΑ ΚΑΙ ΕΚΠΑΙΔΕΥΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ

1) “Διερεύνηση Εναλλακτικών Σεναρίων Αρδευτικών Απολήψεων από τον Πηνεϊό Ποταμό για τον ΤΟΕΒ Πηνεϊού-Αντλιοστάσιο Β”, Περιφέρεια Θεσσαλίας, Συντονιστής: Κ. Ιακωβάκης, Επιστημονικός Υπεύθυνος για το Π.Θ.: Καθ. Α. Λουκάς, Προϋπολογισμός: 10,000 € (2014).

2) “MAtheMatical Modeling of *Microcystis aeruginosa* as a KEy-player in Lakes under REconstruction (LAKEREMAKE)”, Υπουργείο Παιδείας και Θρησκευμάτων – Γ.Γ.Ε.Τ. ΕΥΣΕΔ – ΕΤΑΚ, Δράση ΑΡΙΣΤΕΙΑ II, Coordinator: Επικ. Καθ. Χ. Λασπίδου, Προϋπολογισμός: 200,000 € (2014-2016) (<http://www.lakeremake.uth.gr/>).

- 3) “Σύγχρονες περιβαλλοντικές και τεχνολογικές εφαρμογές στην παρακολούθηση, διαχείριση και αποτίμηση υδάτινων συστημάτων”- Προγράμματα δια Βίου Μάθησης ΑΕΙ για Επικαιροποίηση Γνώσεων Αποφοίτων ΑΕΙ (ΠΕΓΑ), Υπουργείο Παιδείας δια Βίου Μάθησης και Θρησκευμάτων-Αριθμ. Πρότασης: 144_20_1.2_2. Συντονιστής: Καθ. Α. Λουκάς, Προϋπολογισμός: 159,000 € (2013-2015) (<http://pega-water-resources.uth.gr/>).
- 4) “Assessment of EUROpean AGRiculture WATER use and trade under climate change (EURO-AGRIWAT)” – COST Action ES1106. National Representative (2012-2016) (http://www.cost.eu/domains_actions/essem/Actions/ES1106?management).
- 5) “Development of an Integrated Water Resources Environmental and Socioeconomic Modeling System – Application of the System to the Restored Lake Karla (DIWRESMSARLKT)”. Greek Ministry of Education. Program Archimedes III, Coordinator: Prof. N. Samaras, Budget: 100,000 € (2012-2015).
- 6) “Development of an Integrated System for the Water Resources Quality and Quantity Monitoring and Management of Agricultural Watersheds Under Climate Change Conditions. Application to Lake Karla Watershed (HYDROMENTOR)”, General Secretariat for Research and Technology. National Action “Cooperation”, Coordinator: Prof. A. Loukas, Budget: 450,000 € (2011-2015) (<http://www.hydromentor.uth.gr/>).
- 7) “European procedures for flood frequency estimation (FloodFreq)” – COST Action ES0901. National Representative (2010-2013) (<http://www.cost-floodfreq.eu/>).
- 8) “Εκτίμηση Επιπτώσεων Κλιματικής Αλλαγής στα Υδρομετεωρολογικά Δεδομένα σε Θεσσαλία, Ήπειρο και Δυτική Στερεά Ελλάδα”, «Κατάρτιση σχεδίων διαχείρισης λεκανών απορροής των ποταμών των υδατικών διαμερισμάτων Θεσσαλίας, Ηπείρου και Δυτικής Στερεάς Ελλάδας σύμφωνα με τις προδιαγραφές της οδηγίας 2000/60/ΕΚ κατ’εφαρμογή του νόμου 3199/2003 και του ΠΔ 51/2007», Ειδική Γραμματεία Υδάτων, ΥΠΕΚΑ, Κοινοπραξία Γ. Καραβοκυρης και Συν/τες Σύμβουλοι Μηχ/κοι Ανώνυμη Εταιρία και Συνεργάτες. Επιστημονικός Υπεύθυνος: Αναπλ. Καθ. Ν. Μυλόπουλος. Προϋπολογισμός: 58,000 € (2011)
- 9) “Agricultural Innovations in Mediterranean Regions (NOVAGRIMED)” – Interreg IV MED programme. Scientific Responsible: Conseil Régional Provence-Alpes-Côte d’Azur Provence - Alpes - Côte d’Azur (France). Budget: 1,850,000 € (2009-2011).
- 10) “Sustainable Use of Irrigation Water in the Mediterranean Region (SIRRIMED)” – FP7-KBBE-2009-3 – Proposal Reference Number: FP7-245159. Scientific Responsible: Dr. Juan José Alarcón, Budget: 4,050,000 € (2010-2013).
- 11) “Reconnaissance Study of Land Subsidence in Karla Municipality”. Municipality of Karla. Scientific Responsible: Assoc. Prof. A. Loukas, Budget: 10,000 € (2010).
- 12) “An Exercise to assess research needs and policy choices in areas of drought (XERICHORE)” 7th Framework Program - FP7-ENV-2007-1 (ENV.2007.1.3.3.3.) Grant agreement no.: 211837. Scientific Responsible: Dr. Anil Markandya, Budget: 1,800,000 € (2008- 2010).
- 13) “Reconnaissance Study of Dam and Reservoir Development in the Position of Gavroneri Stomiou”. Municipality of Evrimenon. Scientific Responsible: Assoc. Prof. N. Mylopoulos, Budget: 12,000 € (2009).
- 14) “OpenMI-Life”. EC Life – Environment Program. Scientific Responsible: Dr. R. Moore, Budget: 4,000,000 € (2006-2009).
- 15) “The Water Diversion from Acheloos River in the Perspective of Integrated Water Resources Management of Thessaly”. Regional Municipality Union of Thessaly. Scientific Responsible and Project Lead Partner: Ass. Prof. N. Mylopoulos. Budget: 35,400 €. (2003-2005).
- 16) “Database Development of Surface Water and Groundwater Measurements and Evaluation of Reclamation Works in Thessaly”. Regional Development Fund of Thessaly. Scientific Responsible: Prof. Y. Mylopoulos. Budget: 120,000 €. (2003-2005).
- 17) “DEMONstration of Earth observation Technologies in Routine irrigation advisory services (DEMETER)”. 5th Framework, Energy, Environment and Sustainable Development, RTD Network Program. Scientific Responsible: Dr. Alfonso Calera Belmonte. Budget: 2,800,000 € (2002-2005).

- 18) “Program of Elective Studies – Management of Rural Environment and Natural Resources”. Greek Ministry of Education and Religious Affairs. Scientific Responsible: Prof. N.R. Dalezios. Budget: 1,000,000 €. (2002-2005).
- 19) “Network of Study and Research for Water Resources with Applications in Cyprus and Greece”. Greek General Secretariat of Research and Technology. Scientific Responsible for Greece: Ass. Prof. E. Sidiropoulos. Budget: 18,000 € . (2002-2003).
- 20) “Project for the Training of Elementary and High School Teachers in Environmental Education ” Greek Ministry of Education and Religious Affairs. Scientific Responsible: Prof. N.R. Dalezios. Budget: 300,000 €. (1999-2001).
- 21) “Program of Elective Studies – Management of Rural Environment and Natural Resources”. Greek Ministry of Education and Religious Affairs. Scientific Responsible: Prof. N.R. Dalezios. Budget: 900,000 €. (1998-2000).
- 22) “Adaptation of the UBC Watershed System for Water Quality Modelling and Use with Meteorological Forecast Models”. British Columbia Science Council. Scientific Responsible: Dr. J. David Cattanaach, B.C. Hydropower Authority. Budget: 240,000 CAD\$ (1995-1996).
- 23) “Hydrologic Simulation Model Development for the Sooke Lake Watershed” (Greater Victoria Water District). Scientific Responsible: Prof. M.C. Quick. Budget: 65,000 CAD\$ (1995).

I. 9. ΜΕΛΟΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΠΙΤΡΟΠΩΝ-ΕΚΔΟΤΙΚΩΝ ΕΠΙΤΡΟΠΩΝ ΚΑΙ ΟΡΓΑΝΙΣΜΩΝ

I.9.1. Μέλος Εκδοτικών Επιτροπών Επιστημονικών Περιοδικών

- Editor-in-Chief of *European Water*
- Associate Editor of *Water*
- Associate Editor-in-Chief of *Journal of Spatial Hydrology* (2006-2010)
- Guest Editor of *Natural Hazards and Earth System Sciences (NHES-EGU)* for the special issue “Advanced Methods for Flood Estimation in a Variable and Changing Environment”
- Guest Editor of *WATER (MDPI)* for the special issue “Flood Estimation and Analysis in a Variable and Changing Environment”
- Guest Editor of *Natural Hazards and Earth System Sciences (NHES-EGU)* for the special issue “Diagnosis, modelling and forecasting of meteorological and hydrological hazards produced by extreme weather and climate change”
- Guest Editor of *Hydrological Processes* for the special issue “S138 Climate Change, Land Cover Dynamics and Eco-Hydrology of the Nile River Basin”
- Guest Editor of *Natural Hazards and Earth System Sciences (NHES-EGU)* for the special issue “Extreme Events Induced by Weather and Climate Change: Evaluation, Forecasting and Proactive Planning”
- Guest Editor of *Natural Hazards and Earth System Sciences (NHES-EGU)* for the special issue “Assessment and Forecasting of Disaster Risk and Proactive Planning of Extreme Hydrometeorological Events”
- Guest Editor of *Natural Hazards and Earth System Sciences (NHES-EGU)* for the special issue “Advanced methods for flood estimation in a variable and changing environment”

I.9.2. Κριτής Ερευνητικών Προτάσεων

- Κριτής του IPCC Special Report “Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX)” and Abstract for Policymakers (SPM) και IPCC Assessment Report – AR5
- Κριτής ερευνητικών προτάσεων στα γνωστικά πεδία *Water Resources Management and Management of Natural Hazards, Directorate General XII, Science, Research and Development.*
- Κριτής ερευνητικών προτάσεων στα γνωστικά πεδία Environment and Water Resources Ελληνικών και Κυπριακών προκηρύξεων

- Αξιολογητής και πιστοποιητής ερευνητικών έργων της Γενικής Γραμματείας Έρευνας και Τεχνολογίας

1.9.3. Μέλος Επιστημονικών Οργανισμών και Προγραμμάτων

- Μέλος: Τεχνικό Επιμελητήριο Ελλάδας, Πανελλήνιος Σύλλογος Τοπογράφων Μηχανικών, International Association of Hydrological Science (IAHS), European Geophysical Union (EGU), Ελληνική Επιτροπή για τη Διαχείριση των Υδατικών Πόρων (ΕΕΔΥΠ) (Εκλεγμένο μέλος του Δ.Σ. 2005-σήμερα), European Water Resources Association (EWRA), Ελληνικό Δίκτυο Εργαστηρίων για την Υδρολογία και την Περιβαλλοντική Διαχείριση Υδατικών Πόρων “Υδρομέδων” (Γραμματέας 2008-σήμερα), Global Nest

- Εθνικός Εκπρόσωπος στο COST 719 – The Use of Geographic Information Systems in Climatology and Meteorology

- Εθνικός Εκπρόσωπος στο COST ES0901 – National Procedures for Flood Frequency Analysis (FloodFreq)

- Εθνικός Εκπρόσωπος στο COST ES1106 - Assessment of EUROpean AGRiculture WATER use and trade under climate change (EURO-AGRIWAT)

1.9.4. Κριτής άρθρων επιστημονικών περιοδικών

- Τακτικός κριτής άρθρων των επιστημονικών περιοδικών: *Journal of Hydrology, Journal Physics and Chemistry of the Earth, Natural Hazards and Earth System Sciences, Hydrology and Earth System Sciences, Water Resources Management, Hydrological Processes, Journal of Theoretical and Applied Climatology, Journal of River Basin Management, Sensors, Forest and Agricultural Meteorology, Hydrology Research, Climate Change, Agricultural Water Management, Annals of the American Association of Geographers, Environmental Modelling & Software, Stochastic Environmental Research and Risk Assessment, Environmental Processes, Natural Hazards*

1.9.5. Μέλος οργανωτικών επιτροπών συνεδρίων

- Οργανωτής και μέλος οργανωτικών επιτροπών εθνικών και διεθνών συνεδρίων

I. 10. ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

Τα ερευνητικά ενδιαφέροντα και οι ερευνητικές δραστηριότητες του Δρ. Αθανασίου Γ. Λουκά περιλαμβάνουν τα παρακάτω αντικείμενα / θέματα. Η παράθεση των στοιχείων του καταλόγου είναι τυχαία και σε καμία περίπτωση ιεραρχικά ταξινομημένη.

- Υδρολογική προσομοίωση λεκανών απορροής με προσδιοριστικά (αδρομερή και κατανεμημένα μοντέλα) και στοχαστικά μοντέλα,
- Μεθοδολογίες εκτίμησης απορροής σε λεκάνες χωρίς μετρήσεις (ungauged watersheds),
- Μεθοδολογίες εκτίμησης πλημμυρικών απορροών και ξηρασιών,
- Ανάλυση αβεβαιότητας στην υδρολογία
- Εφαρμογές G.I.S. και τηλεπισκόπισης στην υδρολογία και στη διαχείριση υδατικών πόρων,
- Επιπτώσεις αλλαγών χρήσεων γης στους υδατικούς πόρους,
- Υδρολογία ορεινών και χιονοσκεπών λεκανών απορροής,
- Επιπτώσεις κλιματικής αλλαγής στους υδατικούς πόρους,
- Διαχείριση υδατικών πόρων,
- Ανάλυση χωρικής και χρονικής κατανομής υδρο-μετεωρολογικών παραμέτρων,
- Ανάλυση, σχεδιασμός και προσομοίωση της λειτουργίας υδροτεχνικών έργων,
- Ανάλυση και προσομοίωση ποιοτικών χαρακτηριστικών απορροής,
- Μελέτη, ανάλυση και προσομοίωση φυσικών περιβαλλοντικών κινδύνων και των επιπτώσεων τους στον αγροτικό χώρο (παγετός, χαλάζι, ξηρασία, πλημμύρες).

II. 1. ΚΑΤΑΛΟΓΟΣ ΔΗΜΟΣΙΕΥΣΕΩΝ

A. Διατριβές και Διπλωματικές Εργασίες

- A.1. **Λουκάς, Α.** (1988). “Απλουστευμένες Τεχνικές για την Επίλυση Προβλημάτων Οριζόντιας Διήθησης.” Διπλωματική Εργασία, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, 131 σελ.
- A.2. **Loukas, A.** (1991). “*Analysis of the Response and the Rainfall Distribution in a Mountainous Watershed.*” M.A.Sc. Thesis, University of British Columbia, Canada, 159 pp.
- A.3. **Loukas, A.** (1994). “*Mountain Precipitation Analysis for the Estimation of Flood Runoff in Coastal British Columbia.*” Ph.D. Dissertation, University of British Columbia, Canada, 321 pp.

B. Δημοσιεύσεις σε Διεθνή Επιστημονικά Περιοδικά μετά από Κρίση

- B.1. **Loukas, A.** and M.C. Quick (1993). “Hydrologic Behaviour of a Mountainous Watershed.” *Canadian Journal of Civil Engineering*, **20**(1), pp. 1-8.
- B.2. **Loukas, A.** and M.C. Quick (1993). “Rain Distribution in a Mountainous Watershed.” *Nordic Hydrology*, **24**(4), pp. 225-242.
- B.3. **Loukas, A.** and M.C. Quick (1994). “Precipitation Distribution in Coastal British Columbia.” *Water Resources Bulletin*, **30**(4), pp. 705-727.
- B.4. **Loukas, A.** and M.C. Quick (1995). “Comparison of Six Extreme Flood Estimation Techniques for Ungaged Watersheds in Coastal British Columbia.” *Canadian Water Resources Journal*, **20**(1), pp. 17-30.
- B.5. **Loukas, A.** and M.C. Quick (1995). “Spatial and Temporal Distribution of Storm Precipitation in Southwestern British Columbia.” *Journal of Hydrology*, **174**, pp. 37-56.
- B.6. **Loukas, A.** and M.C. Quick (1995). “24-hour Design Storm for Coastal British Columbia.” *ASCE Journal of Hydraulic Engineering*, **121**(12), pp. 889-899.
- B.7. **Loukas, A.** and M.C. Quick (1996). “Physically-Based Estimation of Lag Time for Forested Mountainous Watersheds.” *IAHS Hydrological Sciences Journal*, **41**(1), pp. 1-19.
- B.8. **Loukas, A.**, M.C. Quick and S.O. Russell (1996). “A Physically-Based Stochastic-Deterministic Procedure for the Estimation of Flood Frequency.” *Water Resources Management*, **10**, pp. 415-437.
- B.9. **Loukas, A.** and M.C. Quick (1996). “The Effect of Climate Change on the Hydrologic Regime of Two Climatically Different Watersheds.” *ASCE Journal of Hydrologic Engineering*, **1**(2), pp. 77-87.
- B.10. **Loukas, A.** and M.C. Quick (1999). “The Effect of Climate Change on Floods in British Columbia.” *Nordic Hydrology*, **30**(3), pp. 231-256.
- B.11. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2000). “Flood Producing Mechanisms Identification in Southern British Columbia.” *Journal of Hydrology*, **227**(1-4), pp. 218-235.
- B.12. **Loukas, A.** and N.R. Dalezios (2000). “Response Time of Forested Mountainous Watersheds in Humid Regions.” *Nordic Hydrology*, **31**(3), pp. 149-168.
- B.13. Dalezios, N.R., **A. Loukas**, L. Vasiliades and H. Liakopoulos (2000). “Severity-Duration-Frequency Analysis of Droughts and Wet Periods in Greece.” *IAHS Hydrological Sciences Journal*, **45**(5), pp. 751-770.
- B.14. **Loukas, A.**, L. Vasiliades, N.R. Dalezios and C. Domenikiotis (2001). “Rainfall Frequency Mapping for Greece.”, *Physics and Chemistry of the Earth-Part B-Hydrology, Oceans & Atmosphere*, **26**(9), pp.669-674.
- B.15. Dalezios, N.R., C. Domenikiotis, **A. Loukas**, S.T. Tzortzios and C. Kalaitzidis (2001). “Cotton Yield Estimation Based on NOAA/AVHRR Produced NDVI”, *Physics and Chemistry of the Earth-Part B-Hydrology, Oceans & Atmosphere*, **26**(3), pp.247-251.
- B.16. Domenikiotis, C., N.R. Dalezios, **A. Loukas** and M. Karteris (2002). “Agreement Assessment of NOAA/AVHRR NDVI with Landsat TM NDVI for Mapping Burned Forested Areas.” *International Journal of Remote Sensing*, **23**(20), pp. 4235-4246.

- B.17. **Loukas, A.** (2002). "Flood Frequency Estimation by a Derived Distribution Procedure." *Journal of Hydrology*, **255**(1-4), pp. 69-89.
- B.18. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2002). "Potential Climate Change Impacts on Flood Producing Mechanisms in Southern British Columbia, Canada Using the CGCMa1 Simulation Results." *Journal of Hydrology*, **259** (1-4), pp. 163-188.
- B.19. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2002). "Hydroclimatic Variability of Regional Droughts in Greece Using the Palmer Moisture Anomaly Index." *Nordic Hydrology*, **35**(5), pp. 425-442.
- B. 20. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2002). "Climatic Impacts on the Runoff Generation Processes in British Columbia, Canada". *Hydrology and Earth System Sciences*, **6**(2), 211-227.
- B. 21. Dalezios, N.R., **A. Loukas**, and D. Bampzelis, (2002). "Spatial Variability of Reference Evapotranspiration in Greece". *Physics and Chemistry of the Earth*, **27**(23-24), 1031-1038.
- B. 22. Dalezios, N.R., **A. Loukas**, and D. Bampzelis, (2002). "Universal Kriging of Hail Impact Energy in Greece". *Physics and Chemistry of the Earth*, **27**(23-24), 1039-1043.
- B. 23. Dalezios, N.R., **A. Loukas**, and D. Bampzelis, (2002). "Assessment of NDVI and Agrometeorological Indices for Major Crops in Central Greece". *Physics and Chemistry of the Earth*, **27**(23-24), 1025-1029.
- B. 24. Dalezios, N.R., **A. Loukas**, and D. Bampzelis, (2002). "The role of Agrometeorological and Agrohydrological Indices in the Phenology of Wheat in Central Greece". *Physics and Chemistry of the Earth*, **27**(23-24), 1019-1023.
- B. 25. Domenikiotis C., **A. Loukas**, and N.R. Dalezios, (2003). "The Use of NOAA/AVHRR Satellite Data for the Monitoring and Assessment of Forest Fires and Floods." *Natural Hazards and Earth System Sciences*, **3**(1), 1-14.
- B. 26. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2004). "Climate Change Implications on Flood Response of a Mountainous Watershed". *Water Air and Soil Pollution: Focus*, **4**(4-5), 331-347.
- B. 27. **Loukas, A.**, and L. Vasiliades, (2004). "Probabilistic Analysis of Drought Spatiotemporal Characteristics in Thessaly region, Greece". *Natural Hazards and Earth System Sciences*, **4**, 719-731.
- B. 28. **Loukas, A.**, L. Vasiliades, C. Domenikiotis, and N.R. Dalezios, (2005). "Basin-wide actual evapotranspiration estimation using NOAA/AVHRR satellite data". *Physics and Chemistry of the Earth*, **30**(1), 69-79.
- B. 29. **Loukas, A.**, N. Mylopoulos and L. Vasiliades, (2007). "A Modeling System for the Evaluation of Water Resources Management Scenarios in Thessaly". *Water Resources Management*, **21**(10), 1673-1702.
- B. 30. **Loukas, A.**, L. Vasiliades and J. Tzabiras (2007). "Evaluation of Climate Change on Drought Impulses in Thessaly, Greece" *European Water*, **17/18** (1), 17-28.
- B. 31. **Loukas, A.**, L. Vasiliades and J. Tzabiras (2008). "Climate Change Effects on Drought Severity" *Advances in Geosciences*, **17**, 1-7.
- B. 32. Mylopoulos, N., E. Kolokytha, **A. Loukas** and Y. Mylopoulos (2009). "Agricultural and Water Resources Development in Thessaly, Greece in the framework of new European Union Policies." *International Journal of River Basin Management*, **7**(1), 73-89.
- B. 33. Vasiliades, L. and **A. Loukas** (2009). "Hydrological Response Evaluation to Meteorological Drought Using the Palmer Drought Indices in Thessaly, Greece" *Desalination*, **237** (1-3), 3-21.
- B. 34. L. Vasiliades, **A. Loukas** and G. Patsonas (2009). "Evaluation of a Statistical Downscaling Procedure for the Estimation of Climate Change Impacts on Droughts" *Natural Hazards and Earth Systems Sciences*, **9**, 879-894.
- B. 35 **A. Loukas** (2010). "Surface water quantity and quality assessment in Pinios River, Thessaly, Greece", *Desalination*, **250**, 266-273.
- B. 36. Laspidou, C.S., S. E. Gialis, **A. Loukas** and A. Kungolos (2011). "Analysis and Evaluation of the Operational Status of Municipal Wastewater Treatment Plants in the Dodecanese Prefecture in Greece" *Water Policy*, **13**, 287-297.

- B. 37. Vasiliades, L., **A. Loukas** and G. Liberis (2011). “A Water Balance Derived Drought Index for Pinios River Basin, Greece.” *Water Resources Management Volume*, **25**(4), 1087-1101 (doi: 10.1007/s11269-010-9665-1).
- B. 38. Gialis, S.E., **A. Loukas** and C.S. Laspidou (2011). “Theoretical Perspectives and Empirical Facts on Water Sector Privatization: The Greek Case against European and Global Trends.” *Water Resources Management*, **25**(6), 1699-1719 (doi: 10.1007/s11269-010-9769-7).
- B. 39. Laspidou, C., I. Kakoulidis and **A. Loukas** (2011). “Ecosystem Simulation Modeling of Nitrogen Dynamics in the Restored Lake Karla in Greece.” *Desalination and Water Treatment*, **33**(1-3), 61-67 (doi: 10.5004/dwt.2011.2618).
- B. 40. Sidiropoulos, P., T. Papadimitriou, Z. Stabouli, **A. Loukas**, N. Mylopoulos and I. Kagalou (2012). “Past, Present and Future Concepts for Conservation of the Re-constructed Lake Karla (Thessaly- Greece).” *Fresenius Environmental Bulletin*, **21**(10A), 3027-3034.
- B. 41. Sidiropoulos, P., N. Mylopoulos and **A. Loukas** (2013). “Optimal Management of an Overexploited Aquifer under Climate Change: The Lake Karla Case.” *Water Resources Management*, **27**(6), 1635-1649.
- B. 42. **Loukas, A.** and L. Vasiliades (2014). “Streamflow Simulation Methods for Ungauged and Poorly Gauged Watersheds”, *Natural Hazards and Earth Systems Science*, **14**, 1641-1661 (doi:10.5194/nhess-14-1641-2014).
- B. 43. Fotakis, D., E. Sidiropoulos and **A. Loukas** (2014). “Integration of a Hydrological Model within a Geographical Information System: Application to a Forest Watershed”, *Water* **6**(3), 500-516 (doi:[10.3390/w6030500](https://doi.org/10.3390/w6030500)).
- B. 44. Sidiropoulos, P., N. Mylopoulos and **A. Loukas** (2015). “Stochastic Simulation and Management of an Over-exploited Aquifer using an Integrated Modeling System.” *Water Resources Management*, **29**(3), 929-943 (doi: 10.1007/s11269-014-0852-3).
- B. 45. Papaioannou, G., L. Vasiliades and **A. Loukas** (2015). “Multi-criteria Analysis Framework for Potential Flood Prone Areas Mapping.” *Water Resources Management*, **29**(2), 399-418 (doi: 10.1007/s11269-014-0817-6).
- B. 46. Vasiliades, L., P. Galiatsatou and **A. Loukas** (2015). “Nonstationary Frequency Analysis of Annual Maximum Rainfall using Climate Covariates”, *Water Resources Management*, **29**(2), 339-358.
- B. 47. Sunyer, M.A., Y. Hundecha, D. Lawrence, H. Madsen, P. Willems, M. Martinkova, K. Vormoor, G. Bürger, J. Kriaučiūnienė, **A. Loukas**, M. Osuch and I. Yücel (2015). “Inter-comparison of statistical downscaling methods for projection of extreme precipitation in Europe”, *Hydrological and Earth System Sciences*, **19**, 1827–1847.
- B. 48. Tzabiras, J., L. Vasiliades, **A. Loukas** and N. Mylopoulos (2015). “Climate Change Impacts on Hydrometeorological Variables using a Bias Correction Method: The Lake Karla Watershed Case, Greece”, *Mathematics in Engineering, Science and Aerospace* (Accepted for publication).
- B. 49. **Loukas, A.**, P. Sidiropoulos, N. Mylopoulos, L. Vasiliades and K. Zagoriti (2015). “Assessment of the Effect of Climate Variability and Change and Human Intervention in the Lake Karla Aquifer”, *European Water* (Accepted for publication).
- B. 50. Hundecha, Y., M. A. Sunyer, D. Lawrence, H. Madsen, P. Willems, G. Bürger, J. Kriaučiūnienė, **A. Loukas**, L. Vasiliades, M. Martinkova, M. Osuch, B. von Christierson, K. Vormoor and I. Yücel (2015). “Inter-comparison of statistical downscaling methods for projection of extreme flow indices across Europe”, *Journal of Hydrology* (Under review).
- B. 51. Spiliotopoulos, M. and **A. Loukas** (2015). “Crop coefficient vs NDVI Relationships derived from in-situ observations for a daily estimation of water needs for Karla watershed, Greece”, *European Journal of Remote Sensing* (Submitted).
- B. 52. Tzabiras, J., **A. Loukas** and L. Vasiliades (2015). “A hybrid downscaling approach for the estimation of climate change effects on droughts. Case study: Thessaly, Central Greece”, *Open Geosciences* (Submitted).
- B. 53. Papaioannou, G., **A. Loukas** and L. Vasiliades (2015). “Riverine Spatial Resolution and Modelling Sensitivity in Flood Inundation Simulation and Mapping”, *Natural Hazards* (Submitted).

B. 54. Papaioannou, G., T. Bacigal, K. Jeneiová, S. Kohnová, J. Szolgay, K. Hlavčová, **A. Loukas** (2015). “Joint Modelling of Flood Peaks and Volumes. A Copula Application for Danube River”, *Journal of Hydrology and Hydromechanics* (Submitted).

Γ. Δημοσιεύσεις σε Πρακτικά Διεθνών και Εθνικών Συνεδρίων μετά από Κρίση του Κεϊμένου

- C.1. **Loukas, A.** and M.C. Quick (1991). “Examination of the Hydrologic Behaviour of a Small Steep Forested Watershed in Southwestern British Columbia.” *Proceedings of the CSCE Tenth Canadian Hydrotechnical Conference*, Vancouver, May 29-31, 1991, Volume I, pp. 376-386.
- C.2. **Loukas, A.** and M.C. Quick (1993). “Distribution and Variability of Annual and Monthly Precipitation in two Mountainous Watersheds in British Columbia.” *Proceedings of the CSCE Eleventh Canadian Hydrotechnical Conference*, Fredericton, New Brunswick, June 8-11, 1993, pp. 139-148.
- C.3. **Loukas, A.** and M.C. Quick (1993). “Storm Precipitation in Southwestern British Columbia.” *Proceedings of the ASCE International Symposium on Engineering Hydrology*, San Francisco, July 25-30, 1993, pp. 13-18.
- C.4. **Loukas, A.** and M.C. Quick (1994). “Estimation of Flood Frequency Using the Method of Derived Distributions.” *Proceedings of the Annual “Hydrology Days” AGU Conference*, Fort Collins, April 5-9, 1994, pp. 269-280.
- C.5. **Loukas, A.** and M.C. Quick (1995). “Estimating Lag Time for Mountainous Watersheds.” *Proceedings of the Canadian Society for Hydrologic Sciences Conference “Mountain Hydrology: Peaks and Valleys in Research and Applications”*, Vancouver, May 17-19, 1995, pp. 29-38.
- C.6. **Loukas, A.** and M.C. Quick (1995). “Design Storm Considerations for Coastal British Columbia.” *Proceedings of the Canadian Society for Hydrologic Sciences Conference “Mountain Hydrology: Peaks and Valleys in Research and Applications”*, Vancouver, May 17-19, 1995, pp. 243-250.
- C.7. **Loukas, A.** and M.C. Quick (1995). “The Probability of Extreme Mountain Rainfall.” *Proceedings of the CSCE Twelfth Canadian Hydrotechnical Conference*, Ottawa, June 1-7, 1995, pp. 57-65.
- C.8. Assaf, H., **A. Loukas** and M.C. Quick (1995). “Updating Seasonal Snowmelt Estimates Using Snowcourse Measurements.” *Proceedings of the 1995 Western Snow Conference*, Reno-Sparks, April 17-20, 1995, pp. 21-28.
- C.9. Khan, I., **A. Loukas** and M.C. Quick (1996). “The Effect of Snow Avalanches on the Hydrologic Regime of Kunhar Basin in Northern Pakistan: Analysis and Application on River Flow Forecasting.” *Proceedings of the IAHS International Conference on the Ecohydrology of High Mountain Areas*, Kathmandu, Nepal, March 23-28, 1996.
- C.10. Quick, M.C., **A. Loukas** and E. Yu (1998). “Calculating the Runoff Response of the Wolf Creek Watershed” *Proceedings of the Workshop “Wolf Creek Research Basin: Hydrology, Ecology, Environment”*, Whitehorse, Yukon, Canada, March 5-7, 1998, pp. 91-92.
- C.11. Dalezios, N.R., S. Tzortzios, C. Domenikiotis, **A. Loukas**, and S. Sarakatsanos (1999). “Phytomass Estimation of Wheat in the Area of Kilkis-Greece Based on NDVI Data.” *Proceedings of International Conference “Energy and Agriculture Towards the Third Millennium”*, Athens, Greece, June 2-5, 1999, pp. 36-42.
- C.12. Dalezios, N.R., **A. Loukas**, D. Bampzelis, and S. Tzortzios (1999). “Geostatistical Analysis of Reference Evapotranspiration in Greece”. *Proceedings of 4th National Conference of Greek Association of Water Resources Management “Water Resources Management in Sensitive Areas of Greek Space”*, Volos, June 17-19, 1999, pp. 129-136 (in Greek).
- C.13. **Loukas, A.** and N.R. Dalezios (2000). “Estimation of Lag Time in Mountainous Watersheds”, *8th Greek National Conference, Greek Hydrotechnical Association*, Athens, April 5-7, 2000, pp. 269-276 (in Greek).
- C.14. **Loukas A.**, L. Vasiliades, C. Domenikiotis and N.R. Dalezios (2000). “Estimation of Reoccurrence Probability of Flood Flows in Mountainous Watersheds”, *2nd Greek National Conference of Agricultural Engineering*, Volos, September 28-30, 2000, pp. 34-41 (in Greek).

- C. 15. Dalezios, N.R., C. Domenikiotis, S. Tzortzios, **A. Loukas** and I. S. Tzanetopoulou (2000). "The Importance of Agrometeorological Indices in the Development of Wheat Cultivation in Larisa Area", *2nd Greek National Conference of Agricultural Engineering*, Volos, September 28-30, 2000, pp. 561-568 (in Greek).
- C.16. Dalezios, N.R., **A. Loukas** and L. Vasiliades (2000). "Partial Frost Severity-Duration-Frequency Analysis", *3rd European Conference on Applied Climatology-Climate 2000*, Pisa, Italy, October 16-20, 2000 (in Conference Proceedings CD).
- C.17. **Loukas, A.**, L. Vasiliades and N.R. Dalezios, (2001). "Potential Effects on the Water Resources of two Watersheds due to Future Climate Change". *7th International Conference on Environmental Science and Technology*, Hermoupolis Syros, September 3-6, 2001, Volume C, pp. 276-285.
- C. 18. Vasiliades, L., **A. Loukas**, E. Valentine and N.R. Dalezios (2001). "Modeling of a Combined Sewer Overflow using Hydroworks and Mouse Software Packages". *7th International Conference on Environmental Science and Technology*, Hermoupolis Syros, September 3-6, 2001, Volume B, pp. 911-919.
- C. 19. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2002). "A Hydrologic Modeling Procedure Using a Watershed Model and Artificial Neural Networks". *5th International Conference of European Water Resources Association "Water Resources Management in the Era of Transition"*, Athens, September 4-8, 2002, pp. 219-228.
- C. 20. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2002). "Hydrological Modeling of Flood Response Due to Climate Change". *6th International Conference of Protection and Restoration of the Environment*, Skiathos, July 1-5 2002, pp. 1165-1172.
- C. 21. Moustaka, E., N. Mylopoulos and **A. Loukas** (2002). "Assessment of the Restored Lake Karla Operation Under Different Hydrological and Water Demand Scenarios". *6th International Conference of Protection and Restoration of the Environment*, Skiathos, July 1-5, 2002, pp. 207-215.
- C. 22. Domenikiotis, C., **A. Loukas** and N.R. Dalezios (2002). "Application of NOAA/AVHRR SST for the Delineation and Monitoring of Burned and Inundated Areas". *6th International Conference of Protection and Restoration of the Environment*, Skiathos, July 1-5, 2002, pp. 1641-1648.
- C. 23. **Loukas, A.**, L. Vasiliades, M. Spiliotopoulos, D. Bampzelis, C. Domenikiotis and N.R. Dalezios (2002). "An Assessment of Regional Droughts in Greece using two Meteorological Drought Indices". *6th Hellenic Conference in Meteorology, Climatology and Atmospheric Physics*, Ioannina, Greece, September 25-28, 2002, pp. 708-716.
- C. 24. **Loukas, A.**, L. Vasiliades, and N. Mpastrogiannis (2003). "Water Balance Simulation of Germasoyia Watershed, Cyprus". *Proceedings of Workshop «Studies and Research of Water Resources in Cypriot Space*, Nicosia, Cyprus, June 20, 2003, pp. 83-114 (in Greek).
- C. 25. **Loukas, A.**, L. Vasiliades, and N. Mpastrogiannis (2003). "Water Balance Modeling for the Evaluation of Surface Water Resources." *8th International Conference on Environmental Science and Technology*, Lemnos Island, September 8-10, 2003, pp. 492-499.
- C. 26. **Loukas, A.**, L. Vasiliades and N.R. Dalezios (2003). "Intercomparison of Meteorological Drought Indices for Drought Assessment and Monitoring in Greece." *8th International Conference on Environmental Science and Technology*, Lemnos Island, September 8-10, 2003, pp. 484-491.
- C. 27. **Loukas, A.**, L. Vasiliades, C. Domenikiotis and N.R. Dalezios (2003). "Water Balance of Forested Mountainous Watersheds Using Satellite Derived Actual Evapotranspiration." *Remote Sensing 2003*, International Society for Optical Engineering (SPIE), Barcelona, September 8-12, 2003, pp. 456-466.
- C. 28. **Loukas, A.** and L. Vasiliades (2003). "Peak Flow Estimation in Ungauged Watersheds." *International Workshop "Hydrological Risk: Recent advances in peak flow modeling, prediction and real-time forecasting. Assessment of the impacts of land-use and climate changes"*, Bologna, October 24-25, 2003, pp. 333-352.
- C. 29. Christodoulaki, S., **A. Loukas**, L. Vasiliades, L. and N.R. Dalezios (2003). "Water Balance Modeling Using Digital Gis Data" *International Symposium "GIS and Remote Sensing: Environmental Applications"*, Volos, November 7-9, 2003 (in Conference Proceedings CD).

- C. 30. **Loukas, A.**, N. Mylopoulos and E. Moustaka (2003). “A GIS Based Water Resources Management Procedure for The Restored Lake Karla” *International Symposium “GIS and Remote Sensing: Environmental Applications”*, Volos, November 7-9, 2003 (in Conference Proceedings CD).
- C. 31. **Loukas, A.**, L. Vasiliades, C. Domenikiotis and N.R. Dalezios (2003). “Regional Estimation of NDVI-Derived Actual Evapotranspiration for Water Balance Modeling” *International Symposium “GIS and Remote Sensing: Environmental Applications”*, Volos, November 7-9, 2003 (in Conference Proceedings CD).
- C. 32. **Loukas, A.** and N. Mylopoulos (2004). “Effects of Hydrotechnical Works Development and Water Resources Management on the Availability of Water Resources of Pinios River Basin” *7th International Conference of Protection and Restoration of the Environment*, Mykonos, June 28 - July 1, 2004 (in Conference Proceedings CD).
- C. 33. Christodoulaki, S., **A. Loukas**, L. Vasiliades, L. and N.R. Dalezios (2004). “Analysis of Water Balances and Demands in Heraklio Watersheds, Crete” *7th International Conference of Protection and Restoration of the Environment*, Mykonos, June 28 - July 1, 2004 (in Conference Proceedings CD).
- C. 34. **Loukas, A.**, N. Mylopoulos, and A. Argiris (2005). “Management of Water Transfer and Storage Works from Acheloos River” *5th Greek National Conference of Greek Association of Water Resources Management “Integrated Water Resources Management in Watershed Basis”*, Xanthi, April 6-9, 2005, pp. 259-266 (in Conference Proceedings CD) (in Greek).
- C. 35. **Loukas, A.**, N. Mylopoulos, Y. Mylopoulos, and E. Moustaka (2005). “Simulation and Evaluation of Karla Reservoir Operation” *5th Greek National Conference of Greek Association of Water Resources Management “Integrated Water Resources Management in Watershed Basis”*, Xanthi, April 6-9, 2005, pp. 267-274 (in Conference Proceedings CD) (in Greek).
- C. 36. **Loukas, A.**, L. Vasiliades, and J. Tzabiras (2005). “Response of Drought to Climate Change in Thessaly, Greece” *6th International Conference of European Water Resources Association “Sharing a Common Vision for our Water Resources”*, Menton, September 7-10, 2005 (in Conference Proceedings CD).
- C. 37. **Loukas, A.**, N. Mylopoulos, L. Vasiliades, H. Tarnanas, J. Polykretis, and A. Dimitriou (2005). “Sustainable Water Resources Management in Pinios River and Lake Karla Basins, Thessaly” *6th International Conference of European Water Resources Association “Sharing a Common Vision for our Water Resources”*, Menton, September 7-10, 2005 (in Conference Proceedings CD).
- C. 38. Hondronikou, E., **A. Loukas**, L. Vasiliades, and N.R. Dalezios (2005). “Objective Intercomparison of Water Balance Modelling in Small Watersheds” *6th International Conference of European Water Resources Association “Sharing a Common Vision for our Water Resources”*, Menton, September 7-10, 2005 (in Conference Proceedings CD).
- C. 40. **Loukas, A.** (2006). “Climate Change Induced Changes in Flood Frequency and Magnitude in Coastal British Columbia” *8th International Conference of Protection and Restoration of the Environment*, Chania, 3- 7 July 2006. (in Conference Proceedings CD).

- C. 41. **Loukas, A.**, L. Vasiliades, and G. Lachanas (2006). "Climate Change Impacts on the Components of Hydrological Cycle in Thessaly" *8th International Conference of Protection and Restoration of the Environment*, Chania, 3- 7 July 2006. (in Conference Proceedings CD).
- C. 42. **Loukas, A.**, E. Kolokytha, N. Mylopoulos, L. Vasiliades, A. Mentis and Y. Mylopoulos (2006). "Policy Options through Water Conservation in Agriculture in the Greater Thessaly Region" *8th International Conference of Protection and Restoration of the Environment*, Chania, 3- 7 July 2006. (in Conference Proceedings CD)).
- C. 43. **Loukas, A.**, P. Mitsiou and L. Vasiliades (2006). "Distributed Monthly Hydrological Modelling with the use of G.I.S." *10th Panhellenic Scientific Conference of Greek Hydrotechnical Union «Water Resources Management and Environmental Protection – Contemporary Theories, Problems and Prospects »*, Xanthi, 19-21 October 2006, pp. 95-102 (in Greek).
- C. 44. Vasiliades, L. και **Loukas, A.** (2006). "Spatiotemporal Distribution of Monthly Precipitation in the Pinios River Basin" *10th Panhellenic Scientific Conference of Greek Hydrotechnical Union «Water Resources Management and Environmental Protection – Contemporary Theories, Problems and Prospects »*, Xanthi, 19-21 October 2006, pp. 39-46 (in Greek).
- C. 45. **Loukas, A.**, P. Mitsiou and L. Vasiliades (2007). "Impacts of Spatial Discretisation and Calibration Level in Distributed Hydrological Modelling" *6th National Conference of Greek Association of Water Resources Management: Integrated Water Resources Management Based on River Basin*, Chania, 14-16 June 2007, pp. 1-8 (in Greek).
- C. 46. Vasiliades, L. and **A. Loukas** (2007). "Efficacy of Palmer Drought Indices in Hydrological Drought Evaluation" *International Symposium of European Water Resources Association "Water Resources Management: New Approaches and Technologies"*, Chania, 14-16 June 2007, pp. 41-48.
- C. 47. **Loukas, A.** (2007). "Statistical and Trend Analysis of Hydrometeorological and Surface Water Quality and Quantity Data for Thessaly, Greece" *First Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2007)*, Skiathos, 24-28 June 2007, pp. 1023-1028.
- C. 48. Fotakis, D., E. Sidiropoulos, **A. Loukas** (2007). "Integration of a hydrological model within a geographical information system : Application in Germasogeia watershed, Cyprus" *First Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2007)*, Skiathos, 24-28 June 2007, pp. 937-942.
- C. 50. **Loukas, A.** and L. Vasiliades (2007). "Water Balance Modelling Using NDVI-Derived Actual Evapotranspiration", *32nd IAHR Congress, Venezia*, 2-7 July 2007 (in Conference Proceedings CD)).
- C. 51. Tzabiras, J., **A. Loukas** και L. Vasiliades (2007). "The Effect of Climate Change in Drought Severity in Thessaly" *5th Conference of Agricultural Engineering Greek Union of Agricultural Engineers "The Contribution of Agricultural Engineers in Agriculture "*, Larisa, 18-20 October 2007, pp. 558-565 (in Greek).
- C. 52. **Loukas, A.** (2007). "Απλές και Προσεγγιστικές λύσεις για την Οριζόντια Διήθηση του Νερού σε Ακόρεστο Έδαφος" *5th Conference of Agricultural Engineering Greek Union of Agricultural Engineers "The Contribution of Agricultural Engineers in Agriculture "*, Larisa, 18-20 October 2007, pp. 196-204 (in Greek).
- C. 53. Zaragotas, C., **A. Loukas**, L. Vasiliades and P. Mitsiou (2007). "Χωρική και Χρονική Πιθανοθεωρητική Ανάλυση Ξηρασίας στη Θεσσαλία", *5th Conference of Agricultural Engineering Greek Union of Agricultural Engineers "The Contribution of Agricultural Engineers in Agriculture "*, Larisa, 18-20 October 2007, pp. 550-557 (in Greek).
- C. 54. Bakalianos, D., **A. Loukas** and D. Vagiona (2008). "Emergy Analysis as a Tool for the Evaluation of Environmental and Economic Sustainability of Crops in two Irrigated Agricultural Areas", *8th International Conference of Protection and Restoration of the Environment*, Kefalonia, 29 June - 3 July 2008 (in Conference Proceedings CD).
- C. 55. **Loukas, A.**, K. Kokkinos, L. Vasiliades, and A. Liakopoulos (2008). "The Migration of the UTHBAL Hydrologic Model into OpenMI", *iEMSs 2008 International Congress on Environmental Modelling and Software, 4th Biennial Meeting of iEMSs, Barcelona*, 6-10 July 2008, pp. 1102-1109.
- C. 56. Gialis, S., C. Lapidou and **A. Loukas** (2008). "Analysis and Evaluation of the Operational Status of Municipal Wastewater Treatment Plants in the Dodecanese Prefecture in Greece", *2nd*

- Conference Small and Decentralized Water and Wastewater Treatment Units*, Skiathos, Greece, 2-4 May 2008 (in Conference Proceedings CD).
- C. 57. Mylopoulos, N., P. Sidiropoulos, and **A. Loukas** (2008). “A Coupled Surface Hydrology-Lake-Groundwater Modeling and Management Framework Under Hydrogeologic Uncertainty”, *IAHR International Groundwater Symposium “Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling & Applications”*, Istanbul, 18-20 June 2008 (in Conference Proceedings CD).
- C. 58. Kokkinos, K., P. Sidiropoulos, L. Vasiliades, **A. Loukas**, N. Mylopoulos, and A. Liakopoulos, (2009). “Integrated Modelling of Surface Water and Groundwater Through OpenMI: The Case of Lake Karla Watershed”, *HydroEco 2009 – 2nd International Multidisciplinary Conference on Hydrology and Ecology “Ecosystems Interfacing with Groundwater and Surface Water”*, 20-23 April 2009, Vienna, Austria, (in Conference Proceedings CD).
- C. 59. **Loukas, A.**, L. Vasiliades and N. Liberis (2009). “Hydrological Drought Detection Using a Water Balance Derived Drought Index and Meteorological Drought Indices”, *7th International Conference of EWRA “Water Resources Conservancy and Risk Reduction Under Climatic Instability”*, Limassol, Cyprus, 25-27 June 2009, pp. 463-470.
- C. 60. **Loukas, A.**, G. Patsonas and L. Vasiliades (2009). “Evaluation of the Future Operation of the Restored Lake Karla Reservoir under Climate Change”, *7th International Conference of EWRA “Water Resources Conservancy and Risk Reduction Under Climatic Instability”*, Limassol, Cyprus, 25-27 June 2009, pp. 627-634.
- C. 61. Gialis, S., C. Laspidou, **A. Loukas** and N. Mylopoulos (2009). “Water Privatization in Greece: Turning Waters into Profits?”, *7th International Conference of EWRA “Water Resources Conservancy and Risk Reduction Under Climatic Instability”*, Limassol, Cyprus, 25-27 June 2009, pp. 731-738.
- C. 62. Laspidou, C., I. Kakoulidis and **A. Loukas** (2009). “Simulation Modeling of the Fate of Nitrogen in the Constructed Wetland of Carla in Greece” *Second Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2009)*, Mykonos, 21 - 26 June 2009.
- C. 63. Gialis, S., **A. Loukas** and N. Mylopoulos (2009). “The Unequal Geographical Expansion of Water Privatization: Global and European Perspectives”, *2nd International Conference on Water Economics, Statistics, and Finance, IWA*, Alexandroupolis-Thrace Greece, 3-5 July 2009 (in Conference Proceedings CD).
- C. 64. Vasiliades, L. and **A. Loukas** (2009). “Precipitation Spatial Interpolation Methods Assessment in Pinios River Basin, Greece”, *11th International Conference on Environmental Science and Technology*, Chania, Crete, Greece, 3-5 September 2009, Vol. A, 1523-1530.
- C. 65. **Loukas, A.**, S. Folia, P. Sidiropoulos and N. Mylopoulos (2010). “Implications of Surface Hydrology Modeling Uncertainty on Groundwater Simulation”, *10th International Conference of Protection and Restoration of the Environment*, Corfu, Greece, 5 July - 9 July (in Conference Proceedings CD).
- C. 66. Kokkinos, K. and **A. Loukas** (2010). “Collaborative Migration, Coupling and Simulation of Water Resources Models through OpenMI”, *1st IEEE International Workshop on Collaborative Modeling & Simulation - CoMetS'10*, Larissa, Greece, 28-30 June 2010 (in Conference Proceedings CD).
- C. 67. Maris, F., L. Iliadis, S. Tachos, **A. Loukas** and A. Vassileiou (2010). “Support Vector Machines-Kernel Algorithms for the Estimation of the Water Supply in Cyprus”, *20th International Conference on Artificial Neural Networks*, Thessaloniki, Greece, 15-18 September 2010, (in Conference Proceedings CD).
- C. 68. Vasiliades, L. and **A. Loukas** (2011). “An Early Warning System for Spatiotemporal Forecasting and Modelling of Drought.” *VI International Symposium - EWRA 2011 “Water Engineering and Management in a Changing Environment”*, 29 June – 2 July 2011, Catania, Italy (in Conference Proceedings CD).
- C. 69. Sidiropoulos, P., N. Mylopoulos and **A. Loukas** (2011). “Optimal Groundwater Resources Management of an Overexploited Aquifer Under Global Change.” *VI International Symposium -*

- EWRA 2011 "Water Engineering and Management in a Changing Environment"*, 29 June – 2 July 2011, Catania, Italy (in Conference Proceedings CD).
- C. 70. **Loukas, A.**, G. Aronica, G. Brigardi, L. Vasiliades and G. Papaioannou (2011). "Probabilistic Forecasting of Antecedent Soil Moisture Conditions as Flash Flood Precursor Variables." *VI International Symposium - EWRA 2011 "Water Engineering and Management in a Changing Environment"*, 29 June – 2 July 2011, Catania, Italy (in Conference Proceedings CD).
- C. 71. Spiliotopoulos, M., **A. Loukas** and Ch. Mihalopoulou (2012). "Contribution in the Estimation of Actual Evapotranspiration with the Application of Surface Energy Balance and the Use of Satellite Remote Sensing for the Area of Central Greece." *11th International Conference of Meteorology, Climatology and Atmospheric Physics*, 28 May – 1 June 2012, Athens, Greece. (in Conference Proceedings CD) (In Greek).
- C. 72. **Loukas, A.**, S. Folia, P. Sidiropoulos, and N. Mylopoulos (2012). "Analysis of Groundwater Simulation Uncertainty Due to Surface Hydrology Model Parameter Uncertainty and Precipitation Errors." *XI Protection and Restoration of the Environment International Conference*, 3-6 July 2012, Thessaloniki, Greece (in Conference Proceedings CD).
- C. 73. **Loukas, A.**, S. Folia, P. Sidiropoulos, and N. Mylopoulos (2012). "Regional Development and World Trade: A Review of Virtual Water and Water Footprint Concepts in Agriculture." *XI Protection and Restoration of the Environment International Conference*, 3-6 July 2012, Thessaloniki, Greece (in Conference Proceedings CD).
- C. 74. **Loukas, A.**, S. Dervisis, and N. Mylopoulos (2012). "Analysis and Evaluation of a Water Resources System: Sourpi Basin, Greece." *XI Protection and Restoration of the Environment International Conference*, 3-6 July 2012, Thessaloniki, Greece (in Conference Proceedings CD).
- C. 75. Gatzoura, A., I. Kangalou, C. Lapidou and **A. Loukas** (2012). "Analysis of the Stresses in the "New" Lake Karla with the Methodology DPSIR." *1st Environmental Conference of Thessaly*, 8-10 September 2012, Skiathos, Greece (in Conference Proceedings CD) (In Greek).
- C. 76. Mpakalianos, D. and **A. Loukas** (2012). "Sustainable Planning of Agricultural Production with the Use of EMERGY Method for Water Resources Management and Crop Scenarios: Application in the Lake Karla Basin." *1st Environmental Conference of Thessaly*, 8-10 September 2012, Skiathos, Greece. (In Greek).
- C. 77. Sidiropoulos, P., N. Mylopoulos, **A. Loukas** and L. Vasiliades (2012). "Sustainable and Integrated Management of Lake Karla Aquifer with the Reservoir Operation." *1st Environmental Conference of Thessaly*, 8-10 September 2012, Skiathos, Greece (in Conference Proceedings CD) (In Greek).
- C. 78. Spiliotopoulos, M., K. Karioti, **A. Loukas** and N. Mylopoulos (2012). "Study of Land Use of the Lake Karla Basin with the Use of Remote Sensing." *1st Environmental Conference of Thessaly*, 8-10 September 2012, Skiathos, Greece (in Conference Proceedings CD) (In Greek).
- C. 79. Fotakis, D., E. Sidiropoulos and **A. Loukas** (2012). "Forest Watershed Modelling using GIS." *International Conference «Advanced Methods for Flood Estimation in a Variable and Changing Environment»*, 24-26 October 2012, Volos, Greece (in press).
- C. 80. Vasiliades L. and **A. Loukas** (2012). "Rainfall-Runoff Modeling using a Hybrid Technique for Poorly Gauged Watersheds." *International Conference «Advanced Methods for Flood Estimation in a Variable and Changing Environment»*, 24-26 October 2012, Volos, Greece (in press).
- C. 81. Vasiliades L., P. Galiatsatou and **A. Loukas** (2012). "Nonstationary Frequency Analysis of Maximum Daily Rainfall using Climate Covariates." *International Conference «Advanced Methods for Flood Estimation in a Variable and Changing Environment»*, 24-26 October 2012, Volos, Greece (in press).
- C. 82. Dalezios, N.R., A. Blanta and **A. Loukas** (2012). "Regional Design Storm as Risk Estimation in Flood Risk Assessment of Greece." *International Conference «Advanced Methods for Flood Estimation in a Variable and Changing Environment»*, 24-26 October 2012, Volos, Greece (in press).
- C.83. Papaioannou, G., **A. Loukas** and C. Georgiadis (2013). "The Effect of Riverine Terrain Spatial Resolution on Flood Modeling and Mapping". *RSCy 2013, First International Conference on Remote Sensing and Geoinformation 2013*, 8-10 April 2013, Paphos, Cyprus.

- C.84. Spiliotopoulos, M. N. Adaktylou, **A. Loukas**, H. Michalopoulou, N. Mylopoulos and L. Toullos (2013). "A Spatial Downscaling Procedure of MODIS Derived Actual Evapotranspiration Using Landsat Images at Central Greece." *RSCy 2013, First International Conference on Remote Sensing and Geoinformation 2013*, 8-10 April 2013, Paphos, Cyprus.
- C.85. **Loukas, A.**, A. Anagnostopoulou and L. Vasiliades (2013). "Analysis and Modification of Meteorological Drought Indices in Diverse Hydroclimatic Environments." *8th International Conference of EWRA on Water Resources Management in an Interdisciplinary and Changing Context*, 26-29 June 2013, Porto, Portugal.
- C.86. Vasiliades, L., P. Galiatsatou and **A. Loukas** (2013). "Annual Maximum Frequency Analysis of Rainfall Using Climate Covariates in a Nonstationary Environment." *8th International Conference of EWRA on Water Resources Management in an Interdisciplinary and Changing Context*, 26-29 June 2013, Porto, Portugal.
- C. 87. Vasiliades, L., G. Lysitsa, J. Tzabiras, **A. Loukas**, and N. Mylopoulos (2013). "A Comparison of Climate Change Impacts on Two Meteorological Drought Indices for Selected River Basins in Greece." *8th International Conference of EWRA on Water Resources Management in an Interdisciplinary and Changing Context*, 26-29 June 2013, Porto, Portugal.
- C. 88. Papaioannou, G., **A. Loukas**, and L. Vasiliades (2013). "Multi-criteria analysis framework for potential flood mapping areas." *8th International Conference of EWRA on Water Resources Management in an Interdisciplinary and Changing Context*, 26-29 June 2013, Porto, Portugal.
- C. 89. Yannopoulos, S., Ch. Christidis, A. Loukas and I. Giannopoulou (2013). "A Sensitivity Analysis on the Parameters of Clark Instantaneous Unit Hydrograph", *8th International Conference of EWRA on Water Resources Management in an Interdisciplinary and Changing Context*, 26-29 June 2013, Porto, Portugal.
- C. 90. Vasiliades, L. and **A. Loukas** (2013). "An Operational Drought Monitoring System Using Spatial Interpolation Methods for Pinios River Basin, Greece." *13th International Conference on Environmental Science and Technology (CEST 2013)*, 5-7 September 2013, Athens, Greece.
- C. 91. Gkilimanakis, E., L. Vasiliades and **A. Loukas** (2013). "Identification of Uncertainty in Hydrological Modelling Using Several Model Structures, Optimisation Algorithms and Objective Functions in a Cypriot Watershed." *13th International Conference on Environmental Science and Technology (CEST 2013)*, 5-7 September 2013, Athens, Greece.
- C.92. **Loukas, A.**, J. Tzabiras, M. Spiliotopoulos, C. Fafoutis and N. Mylopoulos (2014). "Development of a District Information System for Water Management Planning and Strategic Decision Making." *RSCy 2014, Second International Conference on Remote Sensing and Geoinformation 2014*, 7-10 April 2014, Paphos, Cyprus (Invited).
- C.93. Spiliotopoulos, M, **A. Loukas**, N. Mylopoulos, L. Toullos and G. Stancalie (2014). Investigation of Spatial Relationships Between Actual Evapotranspiration and Specific Ground Based Vegetation Indices for Karla Watershed, Greece." *RSCy 2014, Second International Conference on Remote Sensing and Geoinformation 2014*, 7-10 April 2014, Paphos, Cyprus.
- C. 94. Kokkinos, K., N.Samaras, **A.Loukas** and N. Mylopoulos (2014). "A Collaborative Approach to Environmental Modeling", *International Conference WETICE 2014*, 23 -25 June 2014, Parma, Italy.
- C. 95. Kokkinos, K., N. Mellios, D. Kofinas, C. Laspidou, **A. Loukas** and N. Mylopoulos (2014). "The development of a Collaborative Environmental Modeling System for the communication between models UTHBAL/UTHRL and PCLake", *4th International Symposium on Green Chemistry for Environment, Health and Development*, 24-26 September 2014, Kos Island, Greece
- C. 96. **Loukas, A.**, I. Kagalou, C. Laspidou, L. Vasiliades, T. Papadimitriou and P. Sidiropoulos (2014). "Evaluation of Restored Lake Karla Status and Operation Under Climate Change Scenarios." *10th International Hydrogeological Congress*, 8-10 October 2014, Thessaloniki, Greece.
- C. 97. Vasiliades, L., M. Spiliotopoulos, J. Tzabiras, **A. Loukas** and N. Mylopoulos (2015). "Estimation of Crop Water Requirements Using Remote Sensing for Operational Water Resources Management." *RSCy 2015, Third International Conference on Remote Sensing and Geoinformation 2015*, 16-19 March 2015, Paphos, Cyprus.

- C. 98. Spiliotopoulos, M., **A. Loukas** and N. Mylopoulos (2015). “A New Remote Sensing Procedure for the Estimation of Crop Water Requirements.” *RSCy 2015, Third International Conference on Remote Sensing and Geoinformation 2015*, 16-19 March 2015, Paphos, Cyprus.
- C. 99. Sidiropoulos, P., N. Mylopoulos, **A. Loukas** and G. Goutis (2015). “Combined Optimization of Reservoir-Aquifer of Lake Karla Under Environmental Constructions.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 100. Tzabiras, J., L. Vasiliades, P. Sidiropoulos, **A. Loukas** and N. Mylopoulos (2015). “Adaptation of Water Resources Management Strategies to Overturn Climate Change Impacts.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 101. Vasiliades, L., P. Sidiropoulos, J. Tzabiras, K. Kokkinos, M. Spiliotopoulos, G. Papaioannou, C. Fafoutis, K. Michailidou, G. Tziatzios, **A. Loukas** and N. Mylopoulos (2015). “An Integrated Monitoring and Management System for Quantity and Quality Assessment of Water Resources in Rural Basins.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 102. Gialis, S., C. Fafoutis, **A. Loukas** and N. Mylopoulos (2015). ““Think about New Agricultural Practices, Drain Lake Karla”: Socio-Economic Insufficiencies of a Lake Restoration Project in Thessaly, Greece.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 103. Vasiliades, L., P. Sidiropoulos, J. Tzabiras, G. Papaioannou, K. Kokkinos, **A. Loukas** and N. Mylopoulos (2015). “An Integrated Modelling System for Assessing Water Resources Management Practices.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 104. Michailidou, K., **A. Loukas** and N. Mylopoulos (2015). “Spatial Estimation of Water Footprint of Crops and Agricultural Production– The Case of Magnesia Prefecture, Greece.” *9th World Congress of EWRA “Water Resources Management in a Changing World: Challenges and Opportunities”*, 10-13 June 2015, Istanbul, Turkey.
- C. 105. Kokkinos, K., N. Samaras and **A. Loukas**, (2015). “An Integrated Modeling Architecture for the Monitoring of Lake Karla Watershed.” *5th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE)*, 14-18 June, 2015, Mykonos Island, Greece.
- C. 106. Kokkinos, K., N. Samaras, N. Mylopoulos, C. Laspidou and **A. Loukas**, (2015). “The Coupling of the Hydrological Models UTHBAL, UTHRL, MODFLOW and the Environmental Model PCLake under a Collaborative Modeling Framework for Water Resources Management of the Lake Karla Watershed.” *5th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE)*, 14-18 June, 2015, Mykonos Island, Greece.
- C. 107. Kokkinos, K., **A. Loukas**, N. Mylopoulos and N. Samaras (2015). “Collaborative Environmental Modelling: A Roadmap for Integrated Water Resources Management.” *14th International Conference on Environmental Science and Technology (CEST 2015)*, 5-7 September 2015, Rhodes Island, Greece.
- C. 108. Tziatzios, G., P. Sidiropoulos, L. Vasiliades, N. Mylopoulos and **A. Loukas** (2015). “Simulation of Nitrate Contamination in Lake Karla Aquifer.” *14th International Conference on Environmental Science and Technology (CEST 2015)*, 5-7 September 2015, Rhodes Island, Greece.
- C. 109. Tzabiras, J., L. Vasiliades, P. Sidiropoulos, G. Papaioannou, **A. Loukas** and N. Mylopoulos (2015). “Climate Change Impacts on Hydrometeorological Variables at Lake Karla Watershed.” *14th International Conference on Environmental Science and Technology (CEST 2015)*, 5-7 September 2015, Rhodes Island, Greece.
- C. 110. Sarailidis, G., L. Vasiliades and **A. Loukas** (2015). “The Quantification of the Threshold Level Method on Low Flows Studies.” *14th International Conference on Environmental Science and Technology (CEST 2015)*, 5-7 September 2015, Rhodes Island, Greece.
- C. 111. Παρασκευάς, Ι., Α. Μούκος, Ε. Φαρσιρώτου και **Α. Λουκάς** (2015). “Υδρολογική και Υδραυλική Προσομοίωση και Σύνθεση Χαρτών Πλημμύρας. Εφαρμογή στο Χείμαρρο Ξηριά Ν.

Μαγνησίας.” 3^ο Κοινό Συνέδριο ΕΥΕ, ΕΕΔΥΠ, ΕΥΣ «Ολοκληρωμένη Διαχείριση Υδατικών Πόρων στη Νέα Εποχή», 10-12 Δεκεμβρίου 2015, Αθήνα.

C. 112. Γεωργιάδου, Ι., Π. Σιδηρόπουλος και Α. Λουκάς (2015). “Προσομοίωση και Διαχείριση Υπογείου Υδροφορέα της Λεκάνης Απορροής του Αλμυρού, Μαγνησίας.” 3^ο Κοινό Συνέδριο ΕΥΕ, ΕΕΔΥΠ, ΕΥΣ «Ολοκληρωμένη Διαχείριση Υδατικών Πόρων στη Νέα Εποχή», 10-12 Δεκεμβρίου 2015, Αθήνα.

Δ. Ανακοινώσεις σε Συνέδρια με Κρίση της Περίληψης

D.1 **Loukas, A.** and M.C. Quick (1993). “Time Distribution of 24-Hour Storm Rainfall in Coastal British Columbia.” Παρουσιάστηκε στο *Hydrology Section of the Canadian Geophysical Union Conference*, Banff, May 9-11, 1993.

D.2. M.C. Quick, **A. Loukas**, R. Millar, D. Nixon, E. Yu (1993). “Application of the U.B.C. Watershed Model to Two Climatically Different Watersheds.” Παρουσιάστηκε στο *Hydrology Section of the Canadian Meteorological and Oceanographic Society Conference*, Fredericton, June 8-11, 1993.

D.3. **Loukas, A.** and M.C. Quick (1994). “Precipitation Distribution in Coastal Pacific Northwest.” Παρουσιάστηκε στο *Hydrology Section of the Canadian Geophysical Union Conference*, Banff, May 14-18, 1994.

D.4. **Loukas, A.** and M.C. Quick (1995). “Hydrological Response of two British Columbia Watersheds to Climate Change.” Παρουσιάστηκε στο *Hydrology Section of the Canadian Geophysical Union Conference*, Banff, May 22-26, 1995.

D.5. Dalezios, N.R., C. Domenikiotis, **A. Loukas** and C. Stoforiadis (2000). «Discriminating Hailstorms and Rainstorms by Using METEOSAT (Ir) and Weather Radar Data», *XXV General Assembly of the European Geophysical Society*, Nice, France, April 25-29, 2000 (Geophysical Research Abstracts, Vol. 2).

D.6. **Loukas, A.**, L. Vasiliades, N.R. Dalezios and C. Domenikiotis (2000). “Rainfall Frequency Mapping for Greece.”, *XXV General Assembly of the European Geophysical Society*, Nice, France, April 25-29, 2000 (Geophysical Research Abstracts, Vol. 2).

D.7. Dalezios, N.R., C. Domenikiotis, **A. Loukas**, S.T. Tzortzios and C. Kalaitzidis (2000). “Cotton Yield Estimation Based on NOAA/AVHRR Produced NDVI”, *XXV General Assembly of the European Geophysical Society*, Nice, France, April 25-29, 2000 (Geophysical Research Abstracts, Vol. 2).

D.8. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2001). “Climate Change Impacts on Causes of Peak Flows in Southern British Columbia, Canada”. *6th Scientific Assembly of the International Association of Hydrological Sciences: A New Hydrology For A Thirsty Planet*, Maastricht, The Netherlands, July 18 – 27, 2001.

D.9. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2001). “Temporal and Spatial variability of regional droughts in Greece”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).

D.10. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2001). “Climate change effects on flood frequency”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).

D.11. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2001). “Climatic impacts on the runoff processes in British Columbia, Canada ”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).

D.12. **Loukas, A.**, M.C., Quick, and N.R. Dalezios, (2001). “Intercomparison of regional flood frequency estimation techniques”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).

D.13. **Loukas, A.**, N.R. Dalezios, Ch. Voultzidis, A. Harisis, (2001). “Design flood estimation using the HEC-HMS model for Germasoya basin, Cyprus”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).

- D.14. Dalezios, N.R., **A. Loukas**, L. Vasiliades, and D. Bampzelis, (2001). “Radar rainfall measurements for flow simulation”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).
- D.15. Dalezios, N.R., **A. Loukas**, and D. Bampzelis, (2001). “Kriging of severe hailstorms in Greece”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).
- D.16. N.R. Dalezios, **A., Loukas**, I. Faraslis, (2001). “Optimal weather radar siting in a mountainous region using G.I.S.” *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).
- D.17. Dalezios, N.R., C. Domenikiotis, and **A. Loukas**, (2001). “Identification procedure of severe rainstorms and hailstorms using satellite and radar data”. *XXVI General Assembly of the European Geophysical Society*, Nice, France, March 25-30, 2001 (Geophysical Research Abstracts, Vol. 3).
- D. 18. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2002). “Flood response modification of a mountainous watershed due to climate and vegetation changes”. *XXVII General Assembly of the European Geophysical Society*, Nice, France, April 21-26, 2002 (Geophysical Research Abstracts, Vol. 4).
- D. 19. **Loukas, A.**, M. I. Khan, and M.C. Quick, (2002). “Aspects of hydrological modelling in the Punjab Himalayan and Karakoram Ranges, Pakistan”. *XXVII General Assembly of the European Geophysical Society*, Nice, France, April 21-26, 2002 (Geophysical Research Abstracts, Vol. 4).
- D. 20. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2002). “Runoff estimation for ungauged watersheds using a conceptual model and neural networks”. *XXVII General Assembly of the European Geophysical Society*, Nice, France, April 21-26, 2002 (Geophysical Research Abstracts, Vol. 4).
- D. 21. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2003). “Hydrologic modeling procedures for watersheds with limited and without streamflow data”. EGS-AGU-EUG Joint Assembly, April 6-1, 2003, Nice, France (Geophysical Research Abstracts, Vol. 5).
- D. 22. **Loukas, A.**, C. Domenikiotis, L. Vasiliades, and N.R. Dalezios, (2003). “Basin-wide actual evapotranspiration estimation using NOAA/AVHRR satellite data”. EGS-AGU-EUG Joint Assembly, April 6-11, 2003, Nice, France (Geophysical Research Abstracts, Vol. 5).
- D. 23. **Loukas, A.** (2003). “Flood frequency and magnitude changes induced by climate change scenarios in coastal British Columbia”. EGS-AGU-EUG Joint Assembly, April 6-11, 2003, Nice, France (Geophysical Research Abstracts, Vol. 5).
- D. 24. **Loukas, A.**, N. Mylopoulos, I. Methimaki, K. Hatzievagelou, and V. Psochiou, (2003). “Management of Surface Water Potential of Pinios River Basin.” 3rd Conference for the Development of Thessaly “Scientific Conference for the Water Resources Management and Sustainable Development in Thessaly”, December 12-14, 2003, Larisa (in Greek).
- D. 25. **Loukas, A.**, L. Vasiliades, and N.R. Dalezios, (2004). “Evaluation of precipitation spatial interpolation methods in Pinios river basin, Greece.” 1st EGU General Assembly, April 25-30, 2004, Nice, France (Geophysical Research Abstracts, Vol. 6).
- D. 26. **Loukas, A.**, L. Vasiliades, and C. Zaragotas, (2004). “Regional drought characteristics in the Thessaly region, Greece.” 1st EGU General Assembly, April 25-30, 2004, Nice, France (Geophysical Research Abstracts, Vol. 6).
- D. 27. **Loukas, A.**, and L. Vasiliades, (2004). “The effect of meteorological data elevation coverage on hydrological modeling of mountainous watersheds.” 1st EGU General Assembly, April 25-30, 2004, Nice, France (Geophysical Research Abstracts, Vol. 6).
- D. 28. **Loukas, A.**, and L. Vasiliades (2005). “Runoff Simulation Using Satellite Derived Actual Evapotranspiration for Ungauged Forested Watersheds.” EGS General Assembly, 24-29 April 2005, Vienna, Austria (Geophysical Research Abstracts, Vol. 7).
- D. 29. **Loukas, A.**, and L. Vasiliades (2005). “Identification of the Relationship Between Meteorological and Hydrological Drought.” EGU General Assembly, 24-29 April 2005, Vienna, Austria (Geophysical Research Abstracts, Vol. 7).

- D. 30. Vasiliades, L. and **A. Loukas** (2005). “Spatiotemporal Monthly Precipitation Mapping for Pinios River Basin, Greece.” EGU General Assembly, 24-29 April 2005, Vienna, Austria (Geophysical Research Abstracts, Vol. 7).
- D. 31. Vasiliades, L. and **A. Loukas** (2006). “Hydrological Drought Evaluation with the Use of Meteorological Drought Indices” EGU General Assembly, 2-7 April 2006, Vienna, Austria (Geophysical Research Abstracts, Vol. 8).
- D. 32. Vasiliades, L. and **A. Loukas** (2006). “Artificial Neural Network Spatiotemporal Drought Interpolation” EGU General Assembly, 2-7 April 2006, Vienna, Austria (Geophysical Research Abstracts, Vol. 8).
- D. 33. **Loukas, A.**, L. Vasiliades, J. Tzabiras and P. Zanis (2007). “Downscaling of Monthly Precipitation and Temperature for Drought Assessment” EGU General Assembly, 16-20 April 2007, Vienna, Austria (Geophysical Research Abstracts, Vol. 9).
- D. 34. **Loukas, A.**, Vasiliades, L. and Jabiras, J. (2007). “Climate Change Impacts on Drought Severity”, 9th EGU Plinius Conference on Mediterranean Storms, 10-13 September 2007, Varenna, Italy.
- D. 35. Vasiliades, L. and **Loukas, A.** (2007). “Evaluation of Drought Forecasting Models in Pinios River Basin, Greece.” 9th EGU Plinius Conference on Mediterranean Storms, 10-13 September 2007, Varenna, Italy.
- D. 36. **Loukas, A.**, L. Vasiliades, and G. Patsonas (2008). “Evaluation of Downscaling Procedures for the Estimation of Climate Change Impacts on Droughts ” EGU General Assembly, 13-18 April 2008, Vienna, Austria (Geophysical Research Abstracts, Vol. 10).
- D. 37. Spiliotopoulos, M., **A. Loukas** and L. Vasiliades (2008). “Actual Evapotranspiration Estimation from Satellite-Based Surface Energy Balance Model in Thessaly, Greece” EGU General Assembly, 13-18 April 2008, Vienna, Austria (Geophysical Research Abstracts, Vol. 10).
- D. 38. Vasiliades, L, and **Loukas, A.** (2008). “Meteorological Drought Forecasting Models” EGU General Assembly, 13-18 April 2008, Vienna, Austria (Geophysical Research Abstracts, Vol. 10).
- D. 39. N. Mylopoulos, **A. Loukas**, P. Sidiropoulos and S. Folia (2008). “Conjunctive Use of Surface Hydrology, Lake and Groundwater Models for the Management of an Overexploited Aquifer”, *HYDROPREDICT2008 International Interdisciplinary Conference*, Prague, 15-18 September 2008.
- D. 40. **Loukas, A.**, N. Mylopoulos, K. Kokkinos, P. Sidiropoulos, L. Vasiliades and A. Liakopoulos (2008). “The Effect of Spatial Discretization in Integrated Modeling of Surface and Groundwater Hydrology through OpenMI”, *HYDROPREDICT2008 International Interdisciplinary Conference*, Prague, 15-18 September 2008.
- D. 41. Vasiliades, L, and **Loukas, A.** (2009). “Uncertainty in Climate Change Impacts on Droughts Using a Statistical Downscaling Method” *EGU General Assembly*, 19-24 April 2009, Vienna, Austria (Geophysical Research Abstracts, Vol. 11).
- D. 42. Sidiropoulos, P., **A. Loukas**, N. Mylopoulos and L. Vasiliades (2009). “Integrated OpenMI Modelling and Management of Lake Karla Aquifer under Climate Change” *EGU General Assembly*, 19-24 April 2009, Vienna, Austria (Geophysical Research Abstracts, Vol. 11).
- D. 43. **Loukas, A.**, and L. Vasiliades (2009). “Spatiotemporal drought monitoring for Pinios river basin, Greece” *EGU General Assembly*, 19-24 April 2009, Vienna, Austria (Geophysical Research Abstracts, Vol. 11).
- D. 44. Spiliotopoulos, M., H. Michalopoulou and **A. Loukas** (2009). “Comparison of Ground Based and Satellite Derived Regional Actual Evapotranspiration Estimation for Continental Greece.” *EGU General Assembly*, 19-24 April 2009, Vienna, Austria (Geophysical Research Abstracts, Vol. 11).
- D. 45. **Loukas, A.** and L. Vasiliades (2010). “Evaluation of Hydrologic and Water Resources Response to Meteorological Drought in Thessaly, Greece.” *The XEROCHORE conference on drought science and policies: Supporting Drought Policies in Europe*, 23-24 Φεβρουάριος 2010, Brussels, Belgium. (**Invited**).
- D. 46. Tzabiras, J., **A. Loukas** and L. Vasiliades (2010). “Spatiotemporal Statistical Downscaling Method with Uncertainty for Climate Change Impact Assessment on Droughts.” *EGU General Assembly*, 2-7 May 2010, Vienna, Austria (Geophysical Research Abstracts, Vol. 12).

- D. 47. Papaioannou, G. and **A. Loukas** (2010). “Flood Inundation Mapping Uncertainty Introduced by Topographic Data Accuracy, Geometric Configuration and Modeling Approach.” *EGU General Assembly*, 2-7 May 2010, Vienna, Austria (Geophysical Research Abstracts, Vol. 12).
- D. 48. Vasiliades, L. and **A. Loukas** (2010). “Non-Linear Modelling for Spatiotemporal Drought Forecasting.” *EGU General Assembly*, 2-7 May 2010, Vienna, Austria (Geophysical Research Abstracts, Vol. 12).
- D. 49. **Loukas, A.**, and M. Spiliotopoulos (2010). “Climate Change Implications on Maximum Monthly Stream Flow in Cyprus Using Fuzzy Regression Models”, *12th EGU Plinius Conference on Mediterranean Storms*, 1-4 September 2010, Corfu, Greece.
- D. 50. Vasiliades, L. and **A. Loukas** (2010). “A Hybrid Spatiotemporal Drought Forecasting Model for Operational Use”, *12th EGU Plinius Conference on Mediterranean Storms*, *12th EGU Plinius Conference on Mediterranean Storms*, 1-4 September 2010, Corfu, Greece.
- D. 51. Sidiropoulos, P., N. Mylopoulos and **A. Loukas** (2010). “A Joint Surface Hydrology-Lake-Groundwater Modeling and Management Framework.” *IAHR International Groundwater Symposium 2010*, 22-24 September 2010, Valencia, Spain.
- D. 52. Aronica G., **A. Loukas** and L. Vasiliades (2011). “Predicting Daily Streamflow with Uncertainty using Parsimonious Rainfall-Runoff Models Finalised to Water Resources Management in a Cypriot Catchment.” *EGU General Assembly*, 3-8 April 2011, Vienna, Austria (Geophysical Research Abstracts, Vol. 13).
- D. 53. Vasiliades, L. and **A. Loukas** (2011). “An Early Warning Drought System for Operational Drought Management.” *EGU General Assembly*, 3-8 April 2011, Vienna, Austria (Geophysical Research Abstracts, Vol. 13).
- D. 54. Tzabiras, J., **A. Loukas** and L. Vasiliades (2011). “Evaluation of Monthly Precipitation Downscaling Methods Accuracy for the Assessment of Climate Change Impacts on Droughts.” *EGU General Assembly*, 3-8 April 2011, Vienna, Austria (Geophysical Research Abstracts, Vol. 13).
- D. 55. Papaioannou, G., **Loukas, A.**, Vasiliades, L. and G. Aronica (2011). “Flood Prone Areas Mapping Through GIS and Multi-Criteria Analysis.” *EGU Leonardo Conference 2011, Floods in 3D: Processes, Patterns, Predictions*, 23-25 November 2011, Bratislava, Slovakia.
- D. 56. Brigandì, G., G. Aronica, **A. Loukas**, L. Vasiliades and G. Papaioannou (2011). “Probabilistic Forecasting of Antecedent Soil Moisture Conditions as Flash Flood Precursor Variables.” *EGU Leonardo Conference 2011, Floods in 3D: Processes, Patterns, Predictions*, 23-25 November 2011, Bratislava, Slovakia.
- D. 57. **Loukas, A.**, Vasiliades, L., Papaioannou, G. and G. Aronica, (2011). “Estimation of Flood Frequency Curves in Poorly Gauged Mediterranean Watersheds using a Derived Distribution Procedure.” *EGU Leonardo Conference 2011, Floods in 3D: Processes, Patterns, Predictions*, 23-25 November 2011, Bratislava, Slovakia.
- D. 58. Lysitsa, G., **A. Loukas** and L. Vasiliades (2012). “A stochastic Bias-Corrected Downscaling Method for Climate Change Impacts Assessment on Droughts.” *EGU General Assembly*, 3-8 April 2011, Vienna, Austria (Geophysical Research Abstracts, Vol. 14).
- D. 59. Vasiliades, L., P. Galiatsatou and **A. Loukas** (2013). “Modelling Hydrological Extremes Under Non-Stationary Conditions Using Climate Covariates.” *EGU General Assembly*, 7-12 April 2013, Vienna, Austria.
- D. 60. **Loukas, A.**, K. Zagoriti, N. Mylopoulos, L. Vasiliades and P. Sidiropoulos (2013). “Climate Variability and Change and Human Intervention Effects on an Over-Exploited Aquifer.” *EGU General Assembly*, 7-12 April 2013, Vienna, Austria.
- D. 61. Gkilimanakis, E. , L. Vasiliades, **A. Loukas** and Patrick Willems (2013). “A Benchmark Comparison of Conceptual Hydrological Models for Runoff Simulation”, *5th European Geophysical Union Leonardo Conference “Facets of Uncertainty”*, 17-19 Οκτωβρίου 2013, Kos Island, Greece.
- D. 62. Papaioannou, G., **A. Loukas** and L. Vasiliades (2013). “An Evaluation of Clustering Techniques in Flood Prone Areas Mapping using Multicriteria Analysis”, *5th European Geophysical Union Leonardo Conference “Facets of Uncertainty”*, 17-19 Οκτωβρίου 2013, Kos Island, Greece.

- D. 63. Vasiliades, L. and **A. Loukas** (2014). “A Hybrid Modelling Technique for Streamflow Modelling using Limited Information.” *European Symposium on Flood Frequency Estimation and Implications for Risk Management*, 6-7 March 2014, Potsdam, Germany.
- D. 64. Papaioannou, G., T. Bacigal, K. Jeneiova, S. Kohnová, J. Szolgay and **A. Loukas** (2014). “Analysis of Suitability of Copula Families for Joint Modelling of Flood Peaks and Volumes along the Danube River.” *European Symposium on Flood Frequency Estimation and Implications for Risk Management*, 6-7 March 2014, Potsdam, Germany.
- D. 65. Papaioannou, G., G. T. Aronica, **A. Loukas** and L. Vasiliades (2014). “The Impact of Dem Accuracy and Hydraulic Modeling Performance for Flood Inundation Mapping.” *European Symposium on Flood Frequency Estimation and Implications for Risk Management*, 6-7 March 2014, Potsdam, Germany.
- D. 66. Sunyer, M.A., Y. Hundecha, D. Lawrence, P. Willems, G. Bürger, J. Kriaučiūnienė, **A. Loukas**, M. Martinkova, M. Osuch, K. Vormoor, I. Yücel and H. Madsen (2014). “Inter-comparison of Statistical Downscaling Methods for Projection of Extreme Precipitation In Europe.” *European Symposium on Flood Frequency Estimation and Implications for Risk Management*, 6-7 March 2014, Potsdam, Germany.
- D. 67. Hundecha, Y., M. A. Sunyer, D. Lawrence, P. Willems, G. Bürger, J. Kriaučiūnienė, **A. Loukas**, M. Martinkova, M. Osuch, L. Vasiliades, K. Vormoor, I. Yücel and H. Madsen (2014). “Effects of Different Statistical Downscaling Methods of Precipitation on Projected Extreme Flow Indices Across Europe.” *European Symposium on Flood Frequency Estimation and Implications for Risk Management*, 6-7 March 2014, Potsdam, Germany.
- D. 68. Papaioannou, G., T. Bacigal, K. Jeneiova, S. Kohnová, J. Szolgay and **A. Loukas** (2014). “Bivariate Analysis of Flood Peaks and Volumes using Copulas. An Application to the Danube River.” *EGU General Assembly*, 27 April – 2 May 2014, Vienna, Austria.
- D. 69. Dewaele, H., L. Vasiliades, M. Esteves and **A. Loukas** (2014). “Regionalization Procedures for Hydrological Drought Assessment in Cevennes Region, France.” *EGU General Assembly*, 27 April – 2 May 2014, Vienna, Austria.
- D. 70. Tzabiras, J., M. Spiliotopoulos, K. Kokkinos, C. Fafoutis, P. Sidiropoulos, L. Vasiliades, **A. Loukas** and N. Mylopoulos (2014). “A GIS Based District Information System for Water Resources Management and Planning.” *EGU General Assembly*, 27 April – 2 May 2014, Vienna, Austria.
- D. 71. Vasiliades, L. and E. Gkilimanakis **A. Loukas** (2014). “Response of Extreme Flood Characteristics Based on Future Climate Change Scenarios at Yermasoyia Watershed, Cyprus.” *EGU General Assembly*, 27 April – 2 May 2014, Vienna, Austria.
- D. 72. Papaioannou, G., G. T. Aronica, **A. Loukas** and L. Vasiliades (2014). “A Sensitivity Analysis using Different Spatial Resolution Terrain Models and Flood Inundation Models.” *EGU General Assembly*, 27 April – 2 May 2014, Vienna, Austria.
- D. 73. Paraskevas, I., L. Vasiliades and **A. Loukas** (2015). “A Generic Framework for the Identification of Hydrological Droughts Through the Propagation of Runoff Generation Mechanisms in Semi-Arid Catchments.” *EGU General Assembly*, 12-17 April 2015, Vienna, Austria.
- D. 74. Vasiliades, L., P. Sidiropoulos, J. Tzabiras, K. Kokkinos, M. Spiliotopoulos, G. Papaioannou, C. Fafoutis, K. Michailidou, G. Tziatzios, **A. Loukas** and N. Mylopoulos (2015). “Hydromentor: An Integrated Water Resources Monitoring and Management System at Modified Semi-Arid Watersheds.” *EGU General Assembly*, 12-17 April 2015, Vienna, Austria.
- D. 74. Tzabiras, J., M. Spiliotopoulos, K. Kokkinos, C. Fafoutis, P. Sidiropoulos, L. Vasiliades, G. Papaioannou, **A. Loukas** and N. Mylopoulos (2015). “A GIS Based Watershed Information System for Water Resources Management and Planning in Semi-Arid Areas.” *EGU General Assembly*, 12-17 April 2015, Vienna, Austria.

E. Άρθρα σε Ειδικές Εκδόσεις και Βιβλία

- E.1. Tsakiris, G., **A. Loukas**, D. Pangalou, H. Vangelis, D. Tigkas, G. Rossi, and A. Cancelliere (2007). Drought characterization (Chapter 7). In *Drought Management Guidelines Technical Annex*

(Eds: A. Iglesias, M. Moneo, A. Lopez-Francos). Series B: Etudes et Recherches, No. 58, Options Méditerranéennes, pp. 85-102.

E.2. Σιδηρόπουλος, E. and **A. Λουκάς** (2007). “Δασικές Πυρκαγιές και Πλημμύρες: Καμιά καταστροφή δεν έρχεται μόνη της”. Πολυμήχανο, 20, Νοέμβριος 2007, pp. 22-23.

E.3. Gialis, S., **A. Loukas** and N. Myloroulos (2009). “The Unequal Geographical Expansion of Water Privatization: Global and European Perspectives”. Water Utility Management International, 4 (3), September 2009, pp. 20-23.

E.4. Τζαμπύρας Γ., **A. Λουκάς**, Χ. Φαφούτης, Μ. Σπηλιωτόπουλος, Π. Σιδηρόπουλος, Κ. Κόκκινος, Λ. Βασιλειάδης, Γ. Παπαϊωάννου και Ν. Μυλόπουλος (2015). “Ανάπτυξη ενός ολοκληρωμένου συστήματος πληροφοριών για τον σχεδιασμό και διαχείριση υδατικών πόρων αγροτικών λεκανών απορροής και τη στρατηγική λήψη αποφάσεων”. Συλλογικός τόμος προς τιμήν του Καθηγητή ΑΠΘ, Σταύρου Γιαννόπουλου, υπό έκδοση.

E.5. Βασιλειάδης Λ., Α. Λιακόπουλος, **A. Λουκάς** και Ν. Μυλόπουλος (2015). “Στοχαστική αναπαράγωγή υδρομετεωρολογικών μεταβλητών για υδρολογικές εφαρμογές”, Συλλογικός τόμος προς τιμήν του Καθηγητή ΑΠΘ, Σταύρου Γιαννόπουλου, υπό έκδοση.

ΣΤ. Διδακτικές Σημειώσεις

Πανεπιστημιακές Σημειώσεις

F.1. **Λουκάς, Α.** και Χ. Δομενικιώτης “Εισαγωγή στα Γεωγραφικά Συστήματα Πληροφοριών”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 120 σελίδες, 1999.

F.2. **Λουκάς, Α.** “Τοπογραφία – Χαρτογραφία”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο Π.Σ.Ε. Διαχείριση Αγροτικού Περιβάλλοντος και Φυσικών Πόρων, Πανεπιστήμιο Θεσσαλίας, 150 σελίδες, 2000.

F.3. **Λουκάς, Α.** “Διάθεση Υγρών Αποβλήτων και Προστασία Υδάτινου Περιβάλλοντος – Διάθεση υγρών αποβλήτων στον υπόγειο υδροφόρο”, συμπληρωματικές διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο Π.Σ.Ε. Διαχείριση Αγροτικού Περιβάλλοντος και Φυσικών Πόρων, Πανεπιστήμιο Θεσσαλίας, 42 σελίδες, 2002.

F.4. **Λουκάς, Α.** “Ποιότητα Νερού σε Ταμειυτήρες”, συμπληρωματικές διδακτικές σημειώσεις για την διδασκαλία του μαθήματος «Ταμειυτήρες-Φράγματα» στο Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 150 σελίδες, 2007.

F.5. **Λουκάς, Α.** και Σ. Γκιάλης. “Εισαγωγή στα Γεωγραφικά Συστήματα Πληροφοριών: Βασικές Έννοιες, Δεδομένα, Σχεδιασμός και Διεθνής Εμπειρία”, διδακτικές σημειώσεις για την διδασκαλία του μαθήματος “Εισαγωγή στο CAD και GIS” στο Τμήμα Πολιτικών Μηχανικών, Πανεπιστήμιο Θεσσαλίας, 148 σελίδες, 2007 (αναθεωρήθηκαν 2010).

Σημειώσεις Ινστιτούτου Επαγγελματικής Κατάρτισης

F.6. **Λουκάς, Α.** “Αυτοματοποιημένη και Θεματική Χαρτογραφία”, διδακτικές σημειώσεις για την διδασκαλία της θεωρίας και των ασκήσεων του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 150 σελίδες, 1996.

F.7. **Λουκάς, Α.** “Ηλεκτρονική Τυπογραφία”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 111 σελίδες, 1996.

F.8. **Λουκάς, Α.** “Χρήση Ηλεκτρονικών Υπολογιστών”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 86 σελίδες, 1996.

F.9. **Λουκάς, Α.** “Γεωγραφικά Συστήματα Πληροφοριών”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 113 σελίδες, 1997.

F.10. **Λουκάς, Α.** “Πολεοδομία-Χωροταξία”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 144 σελίδες, 1997.

F.11. **Λουκάς, Α.** “Γεωγραφία”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 153 σελίδες, 1997.

F.12. **Λουκάς, Α.** “Κτηματολόγιο”, διδακτικές σημειώσεις για την διδασκαλία του αντίστοιχου μαθήματος στο 1ο Ι.Ε.Κ. Θεσσαλονίκης, 71 σελίδες, 1997.

II. 2. ΒΙΒΛΙΟΓΡΑΦΙΚΕΣ ΑΝΑΦΟΡΕΣ

Περισσότερες από 700 αναφορές (610 ανεξάρτητες αναφορές) όπως αναφέρονται στη βάση δεδομένων *Scopus* με h-index=17 (h-index=16, L-index=40). Περισσότερες από 1340 αναφορές στη βάση δεδομένων *Google Scholar* (h-index =22, i-10-index=36).