

Ioannis A. Nikas
MSc, PhD

Curriculum Vitae

PERSONAL	Name	Ioannis
DETAILS	Surname	Nikas
	Name of Father	Andreas
	Date of Birth	April 9th, 1977
	Place of Birth	Athens, Greece
	Nationality	Greek
	Military Service	Artillery
	Marital Situation	Married

CONTACT INFORMATION	Floor 2 , Office 1	Voice: 2610962890
	Laboratory of Tourism Information Systems & Forecasts	Voice: 2610962894
	Department of Tourism Management	e-mail: nikas[@]upatras.gr
	M. Alexandrou, Koukouli, Patras, 26334	URL: tourism.upatras.gr/nikas
	University of Patras	tinyurl.com/nikas-location

Google Scholar	tinyurl.com/scholaren
Scopus	tinyurl.com/nikas-scopus
ResearchGate	tinyurl.com/rs-gate

Home	e-mail: john.nikas[@]gmail.com
Athinon 111, 26441, Patras	skype: nikas.john

OCTOBER 8, 2022 **Assistant Professor** at Department of Tourism Management of University of Patras.
Member of TourISFlab (Tourism Information Systems and Forecasting Laboratory).

RESEARCH INTERESTS **Numerical** Computations :: **Interval** Equations :: **Interval** methods :: **Global** Optimization :: **Linear** Programming :: **Data** Analysis :: **Analysis** & Forecasting Tourism Demand :: **Sports** Analytics :: **Smart** Tourism :: **Geographical** Information Systems & Spatial Analysis

ACADEMIC EDUCATION **Assistant Professor**, in the Department of Tourism Management of the University of Patras (August 2019), in "Numerical Computations and Analysis, Forecasting of Tourism Data" (Government Gazette C' 1303/01.08.2019)
Ph.D. in "Computational Mathematics and Informatics", Department of Mathematics, University of Patras (June 2011) (Supervisor: Theodoula N. Grapsa)
M.Sc. in "Mathematics of Computations and Decision Making", Department of Mathematics, University of Patras (June 2004).
B.Sc. (4 years degree) in Mathematics, University of Patras (September 2000).

- SEMINARS -
EDUCATIONAL COURSES
- Diploma in IAMOOC, a MOOC on Interval Analysis with Application to Parameter Estimation**, ENSTA-Bretagne engineering faculty, University of Bretagne Occidental (Professor Luc Jaulin) [25.05.2019].
 - Certified adult trainer** [28.07.2017].
 - Attendance certification of seminar on the operation of protel Hotel software - FRONT OFFICE**, HIT, June 10th, Athens, Greece, 2013.
 - Certification on "Quantum Mechanics and Quantum Computation"**, a course offered by BerkeleyX, an online learning initiative of The University of California At Berkeley, issued April 30th, 2013.
(Verification at <https://verify.edx.org/cert/948e983be8a44404a792818bf6583e91>).
 - Certification on "Introduction to Mathematical Thinking"**, a course offered by STANFORD UNIVERSITY and offered by Coursera platform, issued May 11th, 2013.
 - Petit-Hotel Front Office Software**, 2m Software, November 30th, Athens, Greece, 2012.
 - Diploma in The Ticketing Course of Amadeus**, Amadeus Certified Agent, July 11th-13th, Athens, Greece, 2011.
 - Diploma in The Basic Course of Amadeus**, Amadeus Certified Agent, July 06th-08th, Athens, Greece, 2011.
 - Linux using console**, 26/10/2009-13/12/2009, offered by Library and Information Center of University of Macedonia.
 - Educational Course on Train the Trainers**, by Human Asset S.A., October 10th-11th, Patras, Greece, 2008.
- COMPUTER SKILLS
- Languages:** Fortran 90/95, C++, Pascal, Matlab, Maple, Java, Visual Basic, HTML/CSS3, PHP, Python.
 - Applications:** L^AT_EX, common Windows database, spreadsheet, and presentation software, SPSS, R, Adobe Dreamweaver CS3, WordPress, QGIS, ArcGIS.
 - Operating Systems:** Unix/Linux-like OS, Dos, Windows.
- FINANCED PROJECTS (3)
- PostDoctoral Researcher** in ARCHIMEDES project, subproject 04, entitled "Forecasting Methods on Tourism Demand in the region of West Greece and Exploitation in Providing Innovative and Quality Services", (project id 383592) **17/05/2013 - 30/11/2015**.
 - Full-time employment** in Operational Program for Education and Initial Vocational Training Project: "Reformation of Undergraduate Study Program of University of Patras"**2003 - 2005**.
 - Employment in Lab of Sociology** and Education of University of Patras as Instructor of SPSS, as well as Supervisor of recording data procedure in SPSS **2003**.

SOFTWARE
DEVELOPMENT

A simulation application in Visual Basic (Exam Galileo) of Galileo Training System for examination purposes. (Part of the courses **Information Systems in Tourism Firms**, **Information Systems in Tourism** and **Hospitality Management Services**.)

An application in Visual Basic for assessing the courses **Statistics** and **Quantitative Methods**.

A dynamic web page in php for assessing the course **Informatics Applications**.

A dynamic spreadsheet book in VBA for assessing the course **Informatics Applications**.

A windows application in FORTRAN90 using Microsoft Developer Studio for numerical and graphical solution of nonlinear equations using interval methods (Part of M.Sc. Thesis).

A simulation application for the educational assembly compiler Miracle. The application is written in FORTRAN90, Matlab 6.5 & 7.0.

WRITING ACTIVITIES

TRANSLATION AND SCIENTIFIC
EDITING

Forecasting: Principle and Practice, 3rd edition, Rob J Hyndman and George Athanasopoulos, translated and edited by Assistant Professor Ioannis Nikas [University of Patras] and Associated Professor Athanasios Koutras [University of Peloponnese] - University of Patras Publications, 2022.

Greek Title Πρόβλεψη: Αρχές και Πρακτική, **ISBN** 978-960-530-183-5, **Eudoxus ID** 112705742.

EDITING

Stochastic Processes (Στοχαστικές Διαδικασίες), Vassileios Papakonstantinou, University of Patras Publications [Format and \LaTeX support]

Continuous Martingales and Brownian Motion, M. Yor, D. Revuz, translated by Vassileios Papakonstantinou - Leader Books A.E., 2004.[Format and \LaTeX support]

Greek Title Στοιχηματικές Στοχαστικές Διαδικασίες Συνεχούς Χρόνου και Κίνησης Brown, **ISBN** 960-7901-53-3.

PUBLICATIONS IN

JOURNALS (8)

J1. I.A. Nikas, and T.N. Grapsa. *Bounding the zeros of an interval equation*, Applied Mathematics and Computation, 213(2), pp. 466--478, 2009.

J2. E.N. Malihoutsaki, I.A. Nikas, and T.N. Grapsa. *Improved Newton's method without direct function evaluations*, Journal of Computational and Applied Mathematics, 227(1), pp. 206--212, 2009.

J3. C.D. Nikolakakou, T.N. Grapsa, I.A. Nikas, and G.S. Androulakis, *A sequential approach for unconstrained optimization via α partitioning technique*, International Journal of Computer Mathematics, 92(4), pp. 722-741, 2015.

J4. An. Panagopoulos, Al. Panagopoulos, I. Nikas, and T. Grapsa, *A Comparative Study on Tourism Demand in Region Western Greece and its Contiguous Regions*, Archives of Economic History, 27(2), pp. 19-35, 2015.

- J5.** Al. Panagopoulos, S. Malefaki, I.A Nikas, *Forecasting The Tourism Demand Using Time-Series -- A Case Study On The Prefectures Of Western Greece*, "Tourism Research Institute", Journal of Tourism Research, 11(1), pp. 162-173, 2015.
- J6.** A. Koutras, A. Panagopoulos, and I. Nikas, *Forecasting Tourism Demand Using Linear and Nonlinear Prediction Models*, *Academica Touristica*, 9(1), pp. 85-98, 2016.
- J7.** I. Poulaki, I. Nikas, *Measuring tourist behavioral intentions after the first outbreak of COVID19 pandemic crisis. Prima facie evidence from the Greek market*, *International Journal of Tourism Cities*, 7(1), pp. 845-860, 2021. doi:10.1108/IJTC-09-2020-0218
- J8.** Μ. Αργυροπούλου, Ε. Κανταρτζή, Κ. Στοφόρος, Α. Παναγόπουλος, Ι. Νίκας και Ι. Πουλάκη, *Το έργο του Λευκάδιου Χερν στην εκπαίδευση και στον πολιτισμό: Ο Λευκάδιος Χερν ως έμπνευση για εκπαιδευτικές δράσεις. Δημιουργία Ψηφιακής Έκθεσης*, *Culture: Journal in Tourism, Culture, Art and Education*, 1(3), pp. 116-132, 2021.
- C1.** D.G. Sotiropoulos, J.A. Nikas, and T.N. Grapsa. *Improving the Efficiency of a Polynomial System Solver via a Reordering Technique*, *Proceedings of 4th GRACM "Congress on Computational Mechanics"*, vol. 3, pages 970-977, 2002.
- C2.** I.A. Nikas, D.G. Sotiropoulos, and T.N. Grapsa. *Extending Interval Newton Method for Nonlinear Parameterized Equations*, *Proceedings of ICNAAM 2006, International Conference of Numerical Analysis and Applied Mathematics*, pages 512-515, 2006.
- C3.** E.N. Malihoutsaki, I.A. Nikas, and T.N. Grapsa. *Improved Newton's Method Without Direct Function Evaluations*, *Proceedings of Numan2007 "Conference in Numerical Analysis"*, pages 85-88, September 3-7, 2007.
- C4.** I.A. Nikas, and T.N. Grapsa. *On Solving Efficiently Interval Polynomial Equations of Degree n*, *Proceedings of Numan2008 "Conference in Numerical Analysis: Honoring Richard S. Varga on his 80th birthday"*, pages 144-147, September 1-5, 2008.
- C5.** I.A. Nikas, G.S. Androulakis, T.N. Grapsa. *A Hybrid Branch-and-Bound Algorithm for Bound Constrained Optimization*, *Proceedings of Numan2010 "Conference in Numerical Analysis"*, pages 202--207, Chania, September 15--18, 2010.
- C6.** I.A. Nikas. *Efficient Unconstrained Optimization Multistart Solvers Using a Self-Clustering Technique*, in *Proceedings of Numan2014 "Conference in Numerical Analysis"*, pages 204-209, Chania, September 2-5, 2014.
- C7.** I.A. Nikas, A. Panagopoulos. *A heuristic technique for selecting ARIMA models for forecasting tourism time series*, In *ICOT2015 "5th International Conference on Tourism"*, pages 238-251, London, UK, June 24--27, 2015.
- C8.** G.S. Androulakis, I.A. Nikas, T.N. Grapsa, A. Panagopoulos, *Tourism forecasting using backtracking optimization*, In *"5th International Conference on Tourism & Hospitality Management"*, pages 272-276, Athens, June 05--07, 2015.
- C9.** E.I. Nikolopoulou, I.A. Nikas, G.S. Androulakis. *Redundant constraints identification in linear programming using statistics on constraints*, In *HELORS2017 "6th International*

Symposium and 28th National Conference on Operational Research: OR IN THE DIGITAL ERA - ICT CHALLENGES", pages 196-201, Thessaloniki, June 8--10, 2017.

- C10.** I. Νίκας, I. Κάτσενος, Γ. Ανδρουλάκης. *Χρήση της Θεωρίας IRT στην αξιολόγηση της απόδοσης των παικτών ομάδων καλαθοσφαίρισης*, Στο 19ο Συνέδριο Διοίκησης Αθλητισμού και Αναψυχής με Διεθνή Συμμετοχή, σελίδες: 75-78, Πάτρα, 16-18 Νοεμβρίου, 2018.
- C11.** I. Νίκας, Γ. Καρολίδης, Γ. Ανδρουλάκης. *Άριστοι συνδυασμοί παικτών σε μια ομάδα καλαθοσφαίρισης*, Στο 19ο Συνέδριο Διοίκησης Αθλητισμού και Αναψυχής με Διεθνή Συμμετοχή, σελίδες: 79-82, Πάτρα, 16-18 Νοεμβρίου, 2018.
- C12.** E. Κανταρτζή, M. Αργυροπούλου, A. Παναγόπουλος, Γ. Νίκας. *Το μουσείο ταξιδεύει: μια κινητή έκθεση με τη βοήθεια της ψηφιακής τεχνολογίας*, Στο 1ο Πανελλήνιο Συνέδριο "Το εκπαιδευτικό παιχνίδι στην τυπική και μη τυπική μάθηση", Τόμος Α', σελ. 385-295, 14-15 Νοεμβρίου 2020.
- C13.** I.A. Nikas, T. Grapsa. *Hybridization of bisection method for solving non-differentiable nonlinear equations*, In 24th Pan-Hellenic Conference on Informatics (PCI 2020). Association for Computing Machinery, New York, NY, USA, 277-280. DOI: 10.1145/3437120.3437324.
- C14.** M. Αργυροπούλου, A. Παναγόπουλος, Γ. Νίκας, I. Πουλάκη. *Η έννοια της τουριστικής αιφορίας στην εκπαίδευση: Μια ψηφιακή ευκαιρία*, 6ο Πανελλήνιο Συνέδριο "Εκπαίδευση και Πολιτισμός στον 21ο αιώνα", Τόμος Α', σελ. 40-49, 23-25 Απριλίου 2021.
- P1.** C.D. Nikolakakou, T.N. Grapsa, I.A. Nikas, and G.S. Androulakis. *A Lexicographic Approach on Unconstrained Optimization*, Proceedings of 23rd Conference on Operational Research (Euro XXIII 2009), page 90, July 05--08, 2009.
- P2.** I.A. Nikas, T.N. Grapsa, and G.S. Androulakis. *Global Optimization via Interval Equations*, Proceedings of 23rd Conference on Operational Research (Euro XXIII 2009), page 249, July 05--08, 2009.
- P3.** I.A. Nikas, and T.N. Grapsa. *An escape-from-local minima technique in unconstrained*, In Numan2012 "5th Conference in Numerical Analysis", page 34, Ioannina, September 5--8, 2012.
- P4.** D. Maginas, I. Poulaki, A. Papaioannou, I. Nikas. *An Evaluation of Customer Relationship Management through Social Media in Aegean Airlines*, 4th International Conference of Development and Economy - Virtual - 01,02,03/12/2020.
- P5.** **A. Panagopoulos, I.A. Nikas. Evaluation of Urban Attractions Based on Primary and Secondary Points of Interest: The Case of Museums in the City of Athens**, In 9th International Conference in "Tourism, Travel and Hospitality in a Smart and Sustainable World", Syros, September 1-3, 2022.
- P6.** **I.A. Nikas, A. Koutras, A. Panagopoulos. Dynamic Areas of Interest Inside an Urban Destination Using Visitors' Geolocation**, In 9th International Conference in "Tourism, Travel and Hospitality in a Smart and Sustainable World", Syros, September 1-3, 2022.

TECHNICAL
REPORTS (1)

T1. D.G. Sotiropoulos, J.A. Nikas, and T.N. Grapsa. *Improving the Efficiency of α Polynomial System Solver via α Reordering Technique*, Technical Report No. 02-03 (2002). [C1].

REVIEWER
IN JOURNALS

Tourism Planning & Development
Applied Mathematics and Computation
Applied Mathematical Modelling
Journal of Computational and Applied Mathematics

CONFERENCES

WITH PAPER
PRESENTATION (18)

IACuDiT2022, 9th International Conference on Tourism, Travel and Hospitality in a Smart and Sustainable World, September 1-3, Syros, Greece, 2022.

IACuDiT2021, 8th International Conference on Transcending Borders in Tourism through Innovation and Cultural Heritage, September 1-3, Hydra, Greece, 2021.

PCI2020, 24th Pan-Hellenic Conference on Informatics, November 20-22, Athens, Greece, 2020.

IACuDiT2020, 7th International Conference on Culture and Tourism in a Smart, Globalized and Sustainable World, September 2-4, Hydra, Greece, 2021.

ΕΛΛΕΕΔΑΑ2018, 19ο Συνέδριο Διοίκησης Αθλητισμού και Αναψυχής με Διεθνή Συμμετοχή, 16-18 Νοεμβρίου, Πάτρα, 2018.

IACuDiT2018, 5th International Conference on Exploring Smart Tourism: The cultural and sustainability synergies, June 28-30, Athens, Greece, 2018.

HELORS2017, 6th International Symposium and 28th National Conference on Operational Research: "OR in the digital era - ICT challenges", June 8-10, Thessaloniki, Greece, 2017.

ICOT2015, 5th International Conference on Tourism, June 24-27, London, UK, 2015.

ICTHM2015, 5th International Conference on Tourism & Hospitality Management, June 05-07, Athens, Greece, 2015.

IACuDiT2015, 2nd International Conference of Cultural and Digital Tourism, May 21-24, Athens, Greece, 2015.

NumAn2014, 6th Conference in Numerical Analysis, Sep. 2-5, Chania, Greece, 2014.

NumAn2012, 5th Conference in Numerical Analysis, Sep. 5-8, Ioannina, Greece, 2012.

NumAn2010, Conference in Numerical Analysis, Sep. 15-18, Chania, Greece, 2010.

Euro XXIII 2009, 23rd Conference on Operational Research, July 05-08, Bonn, Germany, 2009.

NumAn2008, Conference in Numerical Analysis, Sep. 01-05, Kalamata, Greece, 2008.

NumAn2007, Conference in Numerical Analysis, Sep. 03-07, Kalamata, Greece, 2007.

ICNAAM 2006, International Conference of Numerical Analysis and Applied Mathematics, Sep. 15-19, Hersonisos, Crete, Greece, 2006.

4th GRACM, Congress on Computational Mechanics, June 27-29, Univ. of Patras, Greece, 2002.

ATTENDANCE (8)

IACuDiT2014, First International Conference of Cultural and Digital Tourism: Cultural Tourism in a Digital Era, May 30 - June 1, Athens, Greece, 2014.

Workshop on Modern Developments in Mathematics: Curricula, research directions and applications, June 13-14, University of Patras, 2005.

3rd Summer School in *Stochastic Differential Geometry and Applications in Finance*, July 10th-17th, Thermos Aitolokarnania, Greece, 2005.

2nd Summer School in *Insurance Mathematics through Stochastic Finance*, September 22-27, Dimitsana Arkadias, Greece, 2003.

14th Summer School-Conference Nonlinear Dynamics: Chaos and Complexity, July 23 - August 2, Patras, 2001.

5th Greek-European Conference on Computational Mathematics and Applications, September 20-22, Athens University Of Economics And Business, Greece, 2001.

1st International Seminar on *Mathematics of Computers and Decision Making*, May 25-26, University of Patras, Greece, 2001.

4th Panhellenic Geometry Conference on Research in Geometry and the Education of Geometry at the Dawn of 21st Century, May 28, University of Patras, Greece, 1999.

ADMINISTRATIVE
DUTIES

UNIVERSITY OF PATRAS

MEMBER

Reception Committee of the catering service project of the University of Patras
11.11.2021 - today

POSTGRADUATED

PROGRAMS

MEMBER

Coordinating Committee in Postgraduate Programm Tourism Business & Destination Management
2022 - 2023

DEPARTMENT OF
TOURISM MANAGEMENT

COORDINATOR

Committee of **Websites Design** 2019 - 2022
Committee of **Study Guide Writing** 2021 - 2022
Committee of **Timetable and Examination Program** 2019 - 2020

MEMBER

Committee of **Promotion and Events** 2019 - 2022
Committee of **Seminars and Library** 2021 - 2022
Committee of **Timetable and Examination Program** 2019 - 2021

EXPERIENCE

Multimedia Technical Support,

Congressional and Cultural Center of University of Patras September, 2005 - December 2008

School of Medicine, Library,

Importation and Processing Library Data September, 2002 - October, 2006

TEACHING

UNIVERSITY OF PATRAS,
GREECE**Postgraduate Program: MSc in Leadership**

Educational Research Methodology – Quantitative Methods 2021-2022

Department of Tourism Management

Mathematics in Management & Economics, Introduction to Computer Science, Business Statistics, Information Systems for Tourism Firms, Geographic Information Systems in Tourism, Forecasting Methods in Tourism 2019-now

Department of Business Administration of Food and Agricultural Enterprises

Mathematics in Management & Economics, Project Management, Διαχείριση Έργων, Decision Making Theory 2018-2019

Department of Mathematics*Teaching Assistant* 2000-2006, 2007-2008Duties at various times. Have included office hours and leading weekly computer lab exercises in **Introduction to Computer Science, Basic Principles in Programming (FORTRAN90), Numerical Analysis, Introduction to Interval Analysis**TEI OF WESTERN GREECE
(FORMER TEI OF PATRAS &
MESSOLONGHI)**Dept of Tourism Management**

Statistics, Information Systems in Tourism, DataBases, Quantitative Methods, Hospitality Services Administration, Informatics Applications 2010-2019

Dept of Telecommunications Systems and Networks

Object-Oriented Programming with Java 2010-2011

Dept of Aquaculture & Fisheries

Statistics 2010-2011

Dept of Mechanical Engineering

Programming in QBasic and FORTRAN90 2009-2010

Dept of Informatics Applications in Management and Economy

Web Design and Development, Data Structures (Java), DataBases 2008-2009

Dept of Renovation and Re-establishment of Buildings

Mathematics 2008-2009

Dept of Automation

Introduction to informatics 2008-2009

Dept of Administration of Cooperative Organizations

Databases, MS Office 2007-2009

VERGIS I.V.T.

Multimedia Applications: Visual Basic, Data communications & Networks, UNIX Operating System, Program Design, Data structures - File Organization, Databases, API applications, Web Applications and Technologies, OpenGL, C++/Java 2008-2015**Business and Finance:** Statistics 2008-2013

2 ND PUBLIC I.V.T. OF	Multimedia Applications: Introduction to IT	Winter Semester 2009-2010
PATRAS		
I.V.T. AKMI	Multimedia Applications: Spreadsheets, Web Technologies	2003-2004
MENTOR V.T.C	Introduction to ITs (MS Word, MS Access)	2001