



**BASILPAPADOPOULOS**

**PROFESSOR**

Director of Inter-university Post-Graduate Program «  
Applied mathematics»

**DEMOCRITUS UNIVERSITY OF THRACE  
DEPARTMENT OF CIVIL ENGINEERING SECTION  
OF MATHEMATICS**

**CURRICULUM VITAE**

**EDUCATION - ACADEMIC ACTIVITIES - SCIENTIFIC PUBLICATIONS**

**Xanthi, Greece 2014**

## 1. PERSONAL INFORMATION

**Full Name:** Basil K. Papadopoulos

**Date of birth:** 9/9/1955

**Affiliation:** University Professor

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**E-mail:** [papadob@civil.duth.gr](mailto:papadob@civil.duth.gr)

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## 2. BRIEF CURRICULUM VITAE

1973: I graduated from the 3<sup>rd</sup> High School of Thessaloniki (June).

I succeeded at the entrance exams of the Mathematics Department of the Aristotle University of Thessaloniki (scholarship) (October).

1977: I gained my BSc degree in Mathematics with an overall grade of "Very Good" (June).

I joined the army where I served as an officer of Meteorology Artillery Surveyor (September).

1980: I was dismissed from the army with the rank of Lieutenant Reserve (January).

I followed a project assignment of the former Second Chair of Higher Mathematics, Faculty of Engineering, Democritus University of Thrace (since February). I was appointed Research Associate at the above office (June).

1981: I succeeded (after exam in the modules: Analysis, Probability, Algebra and Geometry) the scholarship of the S.S.F (State Scholarships Foundation - I.K.Y) for Postgraduate Studies in Greece (the only out of 8 candidates who succeeded) November. Topic of my PhD thesis was, "*Study of the Topology of spaces of functions Isbell.*"

1985: I supported successfully with honors my PhD Thesis (March) and I was announced a Doctor of Philosophy (April).

1986: I was elected to a position of Lecturer with tenure, at the Department of Mathematics, Programming and General Courses, Department of Civil Engineering, Democritus University of Thrace (June).

1990: Following a tendering position, I was elected to the rank of Associate Professor with tenure (February).

1994: I was tenured at the rank of Assistant Professor (June).

1995: Following a tendering position, I was elected to the rank of Associate Professor in "General Topology with an emphasis on functional topological spaces" (February).

1998: I was elected to the rank of Professor (May).

### 3. TOPICS OF SCIENTIFIC INTEREST

#### i. General Topology

- Functional topological spaces
  - Uniform structures
  - Fuzzy topological spaces
  - Topology via logic
- ii. Categorical Models of Mathematics and Computational Structures

#### iii. Fuzzy logic with applications in Engineering

#### iv. Expert Systems Theory

### 4. TEACHING ACTIVITIES

#### 4.1. Undergraduate courses

**A. Department of Civil Engineering D.U.TH.:** From 1985 until today I taught independently or in co-teaching the following courses:

- **Advanced Calculus I** (1<sup>st</sup> Semester, 5 hours per week).  
1985-1997: (co-teaching with Professor L. Kogketsof).  
1998: independent teaching.
- **Mathematics for Engineers I**, from 1999 until 2006 (co-teaching with Associate Professor Kesoglides).
- **Mathematics for Engineers I**, 2006-2007, independent teaching.
- **Advanced Calculus II**, (2<sup>nd</sup> Semester, 5 hours per week).  
1985-1986: (co-teaching with Professor L. Kogketsof). From 2011 to date, independent teaching
- **Probability and Statistics**, (4<sup>th</sup> Semester, 5 hours per week).  
From 1986 to date, independent teaching.
- **Transportation Statistics**, (7<sup>th</sup> Semester, 3 hours per week) co-teaching with Prof. V. Stefanis and from 2008 co-teaching with Lecturer G. Botzoris.
- **Further Applications of Fuzzy Logic applied on Civil Engineering**, (5<sup>th</sup> Semester, 3 hours per week), independent teaching
- **Mathematical Analysis**, (4 hours per week). From 2007 to date, independent teaching.
- **Linear Algebra** (4 hours per week). From 2007 to date, independent teaching.
- From 1980 until 1985 I taught students applications at the modules of **Advanced Calculus I**, and **Advanced Calculus II**.

#### **B. Department of Environmental Engineering of D.U.TH**

- **Probability and Statistics**, (3<sup>rd</sup> Semester, 5 hours per week). 1997-2001, independent teaching.
- **Introduction to Fuzzy Logic**, (6<sup>th</sup> Semester, 3 hours per week). From 1999 to date, independent teaching.

#### **C. Department of Primary Education of D.U.TH**

- **Advanced Calculus I** (3<sup>rd</sup> Semester, 4 hours per week). 1988-1992, independent teaching.
- **Probability and Statistics**, (4<sup>th</sup> Semester, 3 hours per week). 1988-1992, independent teaching.

#### **D. Department of Architecture of D.U.TH.**

- **Advanced Calculus I** (1<sup>st</sup> Semester, 4 hours per week). 1999-2008, independent teaching.
- **Advanced Calculus II** (2<sup>nd</sup> Semester, 4 hours per week). 1999-2008, independent teaching.
- **Probability and Statistics**, (3<sup>rd</sup> Semester, 3 hours per week). 1999-2008, independent teaching.
- **Mathematics** (2 hours per week). 2011 to date, independent teaching.

### **4.2. Post-graduate courses**

**A. Hellenic Open University** ([www.eap.gr](http://www.eap.gr)). Since 2006, teaching the following modules at the Department of Graduate Studies in Mathematics: □ **Basic Theories and Methods in Mathematics** (2006-07). □ **Mathematics Standards in Science** (2007-08).

- **Basic Theories and Methods in Mathematics** (2008-09). □ **Mathematics Standards in Science** (2008-09).
- **Basic Theories and Methods in Mathematics** (2009-10).
- **Basic Theories and Methods in Mathematics** (2010-11). □ **Mathematics Standards in Science** (2010-11).

I was nominated, from the students of the Hellenic Open University, the “**Vasilis Xanthopoulos- Stefanos Pneumatikos Award of Excellent University Teaching**” in 2009-2010 period.

**B. Inter-university Post-Graduate Program «Systems Engineering and Management (S.E.M.)», Departments of Civil Engineering and Electrical Engineering & Computer Engineering of the D.U.Th in collaboration with the Department of Business Management & Administration of the University of Macedonia.** (<http://sem.eng.duth.gr/english/index.html>). Since 2003, teaching of the following modules:

- **System Modeling and Analysis** (co-teaching with professor A.Protopapas), since 2003 to date.
- **Data Management for Environmental Systems** (co-teaching with professor A.Protopapas), since 2003 to date.

- **Quality Management in Systems** (co-teaching with Dr. L. Tsironis), since 2005 to date.

**C. Postgraduate Program of D.U.Th entitled «New Materials and Technologies in the Design of Reinforced Concrete Works».** Since 1998 to date teaching of the module:

- **Applied Mathematics (Partial Differential Equations - Statistics) for Engineers.**

**D. Postgraduate Program of D.U.Th entitled «Fluid Mechanics».** Since 2000 to date teaching of the module:

- **Hybrid Models in Fluid Mechanics.**

**E. Doctoral Syllabous.** From 1998 till 2007 teaching of the modules:

- **Functional Analysis.**
- **Fractional Geometry.**
- **Fuzzy Logic.**

**F. Postgraduate Program «Innovation in Technology & Entrepreneurship», Eastern Macedonia & Thrace Institute of Technology ( EMaTh.Tech) by the Department of Electrical Engineering.** Since 2014 to date teaching of the module:

:

-Artificial intelligence, co-teaching

**G. Inter-university Post-Graduate Program « Applied mathematics », Departments of Civil Engineering in collaboration with the Department of Electrical Engineering & Computer Engineering and Environmental engineering of the Democritus Univeristy of Thrace.** I am Program Director .Since 2015 to date co-teaching of the modules:

- Applied Functional Analysis
- Fuzzy logic and applications
- Special Topics in Differential Equations and Difference Equations
- Special Topics in Linear Algebra

#### 4.3. Other teaching activities

**A. Regional Training Centers.** Teaching of courses:

- **Elements of General Topology:** 1989-1992.
- **Data Measure Theory:** 1989-1992.
- **Probability and Statistics:** 1989-1992.
- **Teaching of Mathematical Analysis:** 1993-1996 and since 2003 to date. **B.**

**Post-secondary Preparatory Center of Xanthi.** Teaching of courses:

- **Algebra for candidates of Polytechnic School:** 1982-1989.
- **Analysis for candidates of Polytechnic School:** 1982-1989.
- **Analytic Geometry for candidates of Polytechnic School:** 1982-1989.

## 5. BOOKS AND PERSONAL LECTURE NOTES

### -----BOOKS

- «**Fuzzy Logic with Applications in Engineering**» (627 pages.), by C.Tzimopoulos and B.Papadopoulos, ZHTH, 2013 (ISBN 978-9604563852). [http://store.ziti.gr/4d\\$view?id=201476-086CBF81&seq=1557](http://store.ziti.gr/4d$view?id=201476-086CBF81&seq=1557)

-Book presentation at Aristotle University , 16 januar 2014 (the following videos are speeches in the Greek language):

<https://www.youtube.com/watch?v=gVuH-4JqHw>

[https://www.youtube.com/watch?v=fwvIGBiA\\_9k](https://www.youtube.com/watch?v=fwvIGBiA_9k)

<https://www.youtube.com/watch?v=kg8lGoybs5U>

<https://www.youtube.com/watch?v=ptFVrEAOO1g>

- «**Fuzzy Performance Measures of MMS Queueing Systems using Fuzzy Estimators**», A. Gkoukoulis, D. Sfiris, G. Botzoris, and B. Papadopoulos, In C. Zopounidis (Editor): **Computational Optimization in Economics and Finance Research Compendium** (pp. 151-164), Nova Science Pub., New York, 2012 (ISBN: 978-1620819289).
- A Chapter of book "Computation, Cryptography, and Network Security", pp 51-74, Theme "**Producing Fuzzy Inclusion and Entropy Measures**", Athanasios C. Bogiatzis, Basil K. Papadopoulos, Springer 2015, (ISBN 978-3-319-18275-9)
- A Chapter of "Scientific Methods for the Treatment of Uncertainty in Social Sciences", Volume 377 of the series Advances in Intelligent Systems and Computing pp 219-230, Theme "**Clustering Variables Based on Fuzzy Equivalence Relations**", Kingsley S. Adjenughwure , George N. Botzoris, Basil K. Papadopoulos, Springer 2015, (ISBN 9783-319-19704-3)
- « **Probability and Statistics for Engineers** » (432 pages.), Basil K. Papadopoulos, Nikos Mylonas, "TZIOLA", 2016 (ISBN 978-960-418-561-0)
- « **Fuzzy sets** » (432 pages.), Basil K. Papadopoulos, George N. Botzoris, "SOFIA", 2015 (ISBN 978-960-6706-86-8)

### ----- LECTURE NOTES

- «**Introduction to Fuzzy Logic**» (200 p.), for the relevant module I teach in the Department of Civil Engineering of D.U.Th.
- «**Engineering Mathematics**» (200 p.), for the relevant module I teach in the Department of Civil Engineering of D.U.Th..



- Exercises and Solutions for the module of **Probability**, available from my website (<http://utopia.duth.gr/~papadob/>).

## 6. INTERNATIONAL DISTINCTIONS

I have been assigned by Democritus University of Thrace to supervise and prepare the university team for the annual participation in the **South-Eastern European Mathematical Olympiad for University Students** (SEEMOUS) of Polytechnic Departments, Departments of Mathematics and Computer Science Departments.

The last four years, we were awarded nine medals as stated beneath:

- 1) 2009, Bronze Medal, Seitanidis Ioannis, a freshman student in the Department of Electrical Engineering and Computer Science.
- 2) 2010, Bronze Medal, Kingsley Adjenughwure, freshman student in the Department of Civil Engineering.
- 3) 2011, Silver Medal, Kingsley Adjenughwure, sophomore student in the Department of Civil Engineering.
- 4) 2012 Bronze Medals for the following students:
  - Argyros Christos (freshman student of the Electrical Engineering and Computer Science Department),
  - Karampinis Ioannis (freshman student in the Department of Civil Engineering),
  - Lekkas Sotirios (freshman student in the Department of Civil Engineering),
  - Mpalalis Dimitrios (sophomore student in the Department of Civil Engineering), □ Stathakopoulou Elpiniki (freshman student in the Department of Civil Engineering), □ Sikara Stauroula (freshman student in the Department of Civil Engineering).
- 5) 2013. Silver Medal and 3 Bronze Medals for the following students:
  - Karampinis Ioannis (freshman student in the Department of Civil Engineering), Silver Medal,
  - Lekkas Sotirios (freshman student in the Department of Civil Engineering),, Bronze Medal,
  - Desiniotis Dimitrios (freshman student of the Electrical Engineering and Computer Science Department), Bronze Medal,
  - Tsironis Alexander, (freshman student of the Electrical Engineering and Computer Science Department), Bronze Medal.

5) 2014. One medal

vii. 2015. 3 Bronze Medals for the following students:

- Eudokia Mitsiou(freshman student in the Department of Civil Engineering)
- Spyros Karamolegos(freshman student in the Department of Production Engineering & Management)
- Brozos Nikolaos(freshman student of the Electrical Engineering and Computer Science Department)

## **7. DOCTORAL THESIS - MASTER OF SCIENCE THESIS**

### **7.1. Doctoral Thesis supervision**

Under my supervision have been completed and submitted the following Ph.D. Thesis:

- 1) «**APPLICATIONS IN CHU SPACES**» by Syropoulos Apostolos, 2002.
- 2) «**FUZZY ENTAILMENTS AND APLICATIONS**» by .Hadjimichailides Anestis, 2007
- 3) «**MATHEMATICAL MODELING ISSUES IN MANAGEMENT AND TECHNICAL METHODS OF ECONOMICS IN FUZZY LOGIC**» by Chrysafis Constantinos, 2010.
- 4) «**FUZZY LOGIC APPLICATIONS IN DEVELOPMENT OF EXPERT SYSTEMS**» by Sfiris Dimitrios, 2011.

They have also been completed and submitted with my substantial contribution the doctoral dissertations of:

- 1) Nikolaou Ilias (2011), Department of Civil Engineering, Democritus University of Thrace (see published papers)
- 2) Marina Syrpi (1998) at the University of Macedonia, Department of Applied Informatics. (see published papers)
- 3) George Bozoris, Department of Civil Engineering, Democritus University of Thrace (2001). (see published papers)

Furthermore, I have under my direct supervision five (5) Ph.D. students from which, one will carry his thesis in 2012.

I was and am in about twenty (20) three-member committees, which completed their doctorates and at about 25 five-seven member examining committees of other doctoral theses.

### **7.2. Master of Sciences Thesis supervision**

I also oversee twenty (20) Master Thesis, including eight in the *Hellenic Open University*.

## 8. SCIENTIFIC PARTNERSHIP WITH FOREIGN UNIVERSITIES

- i. University: **Polytechnic University of Bucharest**  
Topic: **International Conference Trends and Challenges in Applied Mathematics**  
Research Project: **Fuzzy Estimators**  
Period: June 2007

I was officially invited by the **Polytechnic University of Bucharest** in 2007, to the Congress “*International Conference Trends and Challenges in Applied Mathematics (ICTCAM 2007)*”, June 20-23, where I presented my research work (hourly lecture) on ‘**Fuzzy Estimators**’ (Basil K. Papadopoulos and Dimitris S. Sfiris, Construction of fuzzy estimators International Conference Trends and Challenges in Applied Mathematics (ICTCAM 2007), June 20-23, Bucharest, Romania, pp. 76-81.

- ii. Location: **Vienna**  
Topic: **Meeting of COST-Action 15 on Many-Valued Logics for Computer Science Applications**  
Research Project: **Generalizing topology via Chu spaces** Period:  
November 1998

I was officially invited and attended the «*Working Group 1&2, Meeting of COST-Action 15 on Many-Valued Logics for Computer Science Applications*», held in Vienna (27-28 November 1998), where I presented my work on «Generalizing topology via Chu spaces».

- iii. Foreign Institute: **Steklov Mathematical Institute of the Soviet Academy of Sciences**  
Topic: **Cooperation with the Steklov Mathematical Institute** Period: 1992-today

Since 1992 I have a permanent cooperation with “**Steklov Mathematical Institute of the Soviet Academy of Sciences**”. Especially I cooperate with the Director of the Institute, Scientist I. Ivanov (passed away in 2011).

During the period November 1992 - December 1992 I was invited, by the **Steklov Mathematical Institute of the Soviet Academy of Sciences**, to give a series of lectures and to collaborate with scientists from the Academy in Moscow and St. Petersburg (the Institute reiterated the invitation for the period 1994-1995). During my staying, I contacted the Academic Alexander Samarskii (Director of the Institute of Mathematical Modelling of the Soviet Academy of Sciences) in order to be informed concerning the latest developments in the field of Mathematics simulations (particularly in nonemulation natural-systems).

- iv. Foreign Institute: **Research Institute of University of Vern**  
Topic: **Collaboration with Professor H.P. Kunzi** Period:  
1994-2005

From 1994 up until 2005 I was standing collaboration with Professor of the Research Institute of University of Vern, H.P. Kunzi (now professor at the University of Cape Town), (see at the list of references).

- v. Foreign University: **University of Napoli**  
Topic: **Collaboration with the Scientific Team of Fuzzy Mathematics Department**  
(Director: Professor Antonio Di Nola) Period:  
1997-2003

From 1997 up until 2003 I was standing collaboration with the Scientific Team of Fuzzy Mathematics Department of the University of Napoli (Italy) and especially with the Director of the Team, Professor Antonio Di Nola.

Prof. Antonio Di Nola invited me to present a series of lectures during the period May 1999 - September 1999 in 'Chu spaces'.

- vi. Foreign University: **New Mexico University**  
Topic: **Collaboration with the Scientific Team of Fuzzy Mathematics Department**  
(Professor Hung Nguyen) Period:  
1997-2003

From 1997 up until 2003 I was standing collaboration with the team of Fuzzy Mathematics Department of the University of New Mexico and especially with Professor Hung Nguyen.

- vii. Invited by the Professor Hung Nguyen (**Department of Mathematics, University of New Mexico**) to present a series of lectures during the period August 1999 - October 1999 in the «Chu spaces" in the area of Fuzzy Logic and collaborative research in these areas.
- viii. The Director Professor of the Research Institute of the **University of Bern** H. P. Künzi invited me to work and lecture on the 1<sup>st</sup> week of June 1999.
- ix. I was selected to visit Prague (Czechoslovakia), during a bilateral cultural exchanges program, where I collaborated with scientists with common scientific interests (17-29 August 1991).

## **9. SCIENTIFIC PARTNERSHIP WITH GREEK UNIVERSITIES**

### **9.1. Invitations for Lectures and Seminars**

- a) Invited by the Departments of Economics of the **University of Crete** and of the **University of Ioannina** and the Department of Surveying of the **Aristotle University (Section of Hydraulic)** to present lectures in the field of **Fuzzy Logic** (1999-2007)
- b) As part of the Seminar in **Theoretical Computer Mathematics**, Department AUTH (period 1995-1998), I gave a series of lectures (on a research and postgraduate level) in the field of **Fuzzy Logic**. Also I gave a series of lectures in **Categorical Models of**

**Linear Logic (Chu spaces)** during the second semester of the academic year 1998-1999.

- c) During the period 1991-1995 I presented seminars, on the Topology Seminar “**Topology Functional Spaces**” organized by the Department of Mathematics of the **University of Patras**.
- d) During the period 1983-1986 I conducted a series of seminars in the Analysis field of the **Mathematical Section of AUTH** and presented results of my thesis and other.

## **9.2. Research Collaborations**

- a) From 1991 to date, I work closely with the Topology Professors of the Mathematics Department of University of Patras. During this time I conduct seminars on Functional Spaces, I know about the research of scientists there, and produced a research project, part of which has already been published (see published papers).
- b) From 1997 to date, I work closely with Professor of the Mathematics Department of the AUTH Mr. Simeon Bozapalidi on Theoretical Computer Science.
- c) From 1997 to date, I work closely with Professors of the Department of Computer Engineering, University of Patras and CTI Director Mr. Paul Spirakis on Theoretical Computer Science (PhD, Apostolos Syropoulos).
- d) After invitation from the President of the Department of Applied Informatics of the University of Macedonia, Mr. Konstantinos Tsouros (who attended the seminars I gave in the Mathematics Department of the AUTH in the area of Fuzzy Logic), I cooperated with Ph.D. candidate Ms. Marina Syrpi.

## **9.3. Participation in electoral boards**

I personally participated in numerous Electoral Boards, as President, as a member of the tripartite committee and as elector for the election of faculty members at all levels, in Universities across Greece.

## **10. PARTICIPATION IN INTERNATIONAL CONFERENCES – WORKSHOPS**

I have participated to the following international scientific conferences and workshops:

- **Topology and its Applications**, Dubrovnik Yugoslavia (1985), with paper.
- **3<sup>rd</sup> National Meeting on Topology**, Trieste Italy (1986), with paper.
- **6<sup>th</sup> Prague Topological Symposium on General Topology and its Relation to Modern Analysis and Algebra**, Prague Czechoslovakia (1986), with paper.
- **7<sup>th</sup> Prague Topological Symposium on General Topology and its Relation to Modern Analysis and Algebra**, Prague Czechoslovakia (1991).
- **Short Conference on Uniform Mathematics**, Bern Switzerland (1991), with paper.
- **Current Trends And Developments In Fuzzy Logic**, Thessaloniki, Greece (1998), with paper.

- **Working Group 1&2, Meeting of COST-Action 15 on Many-Valued Logics for Computer Science Applications**, Vienna (1998). I was officially invited and presented the work «Generalizing topology via Chu spaces».
- **International Conference "Trends and Challenges in Applied Mathematics"**, June 20-23, 2007, Bucharest, Romania. I was officially invited and presented (Plenary Lecture) the paper "Construction of Fuzzy Estimators" (collaboration with D. Sfiris).

I was on the **Scientific Committee** and **co-organizer** of the Workshop "New trends and developments in fuzzy logic" that took place in Thessaloniki on 15-21 October 1998 with the distinguished researchers in Theoretical Computer Science, Professor Simeon Bozapalidis (Mathematics Department of A.U.Th.) and Professor Paul Spirakis (Department of Computer Engineering, University of Patras). The Congress was attended by great researchers in the field of Fuzzy Logic.

## 11. PARTICIPATION IN GREEK CONFERENCES – WORKSHOPS

- I participated in all **Congresses of Mathematical Analysis** from 1990 in Thessaloniki, until the last in 2010 in Ioannina. In all these conferences I was in the Scientific Committee and furthermore participated extensively throughout the abstracts in the Proceedings.
- I participated in several conferences of **Hellenic Mathematical Society** and, after invitation, I gave many lectures on issues related to my research interests.
- In the 15<sup>th</sup> Mathematics Education Conference (Chios, Greece, 13-15 November 1998), I was officially invited and I participated at the **Round Table** on "Curriculum of Mathematics and the needs of Higher Education". I also presented the paper entitled "A journey from classical to modern Logic" which has been published in the Proceedings of this Conference after judgment.

## 12. INTERNATIONAL RECOGNITION

### 12.1. Reviewer for Journals

I am reviewer for several journals, some of which are the following:

- Real analysis exchange, Indian journal of Mathematics ,
- Questions and Answers in General Topology ,
- Quaestiones Mathematicae,
- Fuzzy Sets and Systems,
- Information Sciences ,
- Applied Mathematics and Computation.
- Mathematical Analysis and its Applications, etc.

## 12.2. Member of Journals' Editorial Board

I am member of the Editorial Board of the scientific journal:

- **Journal of Mathematics** (<http://www.hindawi.com/journals/jmath/>)
- **Pure and Applied Mathematics Journal**  
(<http://www.sciencepublishinggroup.com/j/pamj>)
- **American Journal of Theoretical and Applied Statistics**  
(<http://www.sciencepublishinggroup.com/j/ajtas>)
- **Research & Reviews: Discrete Mathematical Structures**  
(<http://computers.stmjournals.com/index.php?journal=RRDMS&page=about&op=editorialTeam>)
- **Journal of Advanced Research in Applied Mathematics and Statistics**
- **individual member «Asian Council of Science Editors »**  
(<http://theacse.com/>)
- **Journal of Statistics and Mathematical Engineering**  
<http://matjournals.in/index.php/JOSME>
- **SOP Transactions on Statistics and Analysis**  
<http://www.scipublish.com/journals/STSA/editorials>

I was **Editor** of the Journal “**Bulletin of the Greek Mathematical Society**”, the only one scientific journal in Greece (issued by the Greek Mathematical Society). This journal is included in « **Zentralblatt Fur Mathematik**» and in « **American Mathematical Reviews**»

## 12.3. Other recognitions

- For the promotion of academic and research Excellence, the Greek Excellence initiative (ARISTEIA), made a mini-documentary (9min) about the successful route of our students in mathematical olympiad (SEEMOUS) for the last 5 years. <http://excellence.minedu.gov.gr/listing/674-seemous>
- **Special Individual Member.** Because of my publications in the journal “Mathematica Japonica” issued by the Japanese Association of Mathematical Sciences, I joined in this category.
- **Paper «Answers to two questions of Papadopoulos».** This work was published in one of the most well known and recognized Journals in General Topology entitled «Questions and Answers in General Topology», Editor of which is a famous specialist in Topology, J. Nagata.

## 13. EXPERIENCE IN RESEARCH PROJECTS

### 13.1. Participation in research projects

- 1) Member of the Research Team of the project "**General Development Plan (Master Plan) of the Airport of Rhodes**", funded by the Greek Civil Aviation Authority (scientific coordinator Prof. V. Profillidis).
- 2) After relevant decision of the Department of Civil Engineering of DUTH, (June 1995) along with the Prof. Kotsovinos, we had coordinate successfully the Proposals (referring EPEAEK), submitted by the Department of Civil Engineering within the 2<sup>nd</sup> CSF (Community Support Framework).
- 3) Deputy scientific coordinator of the EPEAEK Project, "**Internship of Undergraduate Students of Civil Engineering**" (1997), (scientific coordinator Prof. P. Matsoukis).
- 4) Deputy scientific coordinator of the EPEAEK Project, "**Upgrading of Undergraduate Studies, Department of Civil Engineering**" (1997), (scientific coordinator Prof. P. Matsoukis).
- 5) Scientific coordinator of the Research project "**Study Fuzzy Spaces**", funded, after assessment, by the Research Committee of DUTH (PRENED 96), (1996-1998).
- 6) Scientific coordinator of the Research project "**Power set-Fuzzy Fuzzy Lattices and Applications**", funded, after assessment, by the Research Committee of DUTH (PRENED 98).
- 7) Member of the Research Team of the project "**Application of Fuzzy Mathematics in Road Safety**", funded, after assessment, by the Research Committee of DUTH (PRENED 98), (scientific coordinator Assoc. Prof. A. Kokkalis).
- 8) Principal author of the Proposal and, after its adoption, Scientific coordinator of the Research Project '**Upgrade of the Undergraduate Studies in the Department of Civil Engineering of DUTH.**' (EPEAEK II), (2003-2008).
- 9) Member of the Research Team of the project "**Numerical Solution of Differential Equation with Oscillating Solution-Fuzzy Multisets**" (PRENED 99), (scientific coordinator Prof. Th. Simos).
- 10) Member of the Research Team of the project "**Contribution to the Study of Certain Forms of Nonlinear Difference Equations and Application**" (PRENED 99), (scientific coordinator Prof. G. Papasxinopoulos).
- 11) Principal investigator representing DUTH, (cooperation of DUTH along with AUTH, NTUA, Union of Greek Physics, etc.) to the Scientific Program "**Equal**", concerning the education of graduates on exact-applied studies.
- 12) Scientific coordinator representing DUTH to the European Scientific Program, **math.ind. (A Balkan and Eastern European network of Excellence for the Diffusion of Mathematics for Industry Expertise)** (2002-2004).
- 13) Scientific coordinator and Head of the Research Team in three Projects of the General Secretariat for Research and Technology (GSRT) of the Ministry of Development:
  - i. '**Modeling Systems Economics and Management and Systems Engineering with the help of Fuzzy Logic**' (2006),
  - ii. '**Hybrid Systems (Fuzzy Logic and Statistics)**' (2007),
  - iii. '**Fuzzy Logic- Expert Systems**' (2008). The results of the Projects were presented at the International Exhibition of Thessaloniki (2006-2008).



### **13.2. Appreciation of my Experience in Research Programs**

- I was selected, after evaluation of my CV, by the Minister of Education as evaluator of proposals submitted from the Universities within the EPEAEK.
- I was appointed, after unanimous decision of the Senate, for the monitoring committee of all Scientific Programs EPEAEK of DUTH, (1997).

## **14. ADMINISTRATIVE ACTIVITIES**

- For several years I was Deputy Head of Sector and Head of Sector of the Department of Planning and General Mathematics Courses.
- Deputy Chairman of the Department of Civil Engineering of D.U.Th (period 2000-2002)
- Elected as representative of the Department of Civil Engineering in the Senate during the academic year 1997-1998.
- President (2009-2011) and Vice-president (1997-1999) of the Association ESDEP of the Polytechnic School of Xanthi.

## **15. RESEARCH PAPERS PUBLISHED IN JOURNALS**

### **15.1. Research Papers with only one author**

1. ISBEL TOPOLOGY OF FUNCTIONS IN SPACES FUNCTIONS, Ph.D. Thesis (with scholarship from the State Scholarships Foundation, I was the only successful candidate between eight participants).
2. B. K. PAPADOPOULOS, BOUNDED-COVERING AND BOUNDED-TRACE MAPPINGS, RICERCHE DI MATEMATICA, VOL XXXV PP. 205-213 (1985).
3. B. K. PAPADOPOULOS, AN EXTENSION OF AN ASCOLI TYPE THEOREM, RADOVI MATEMATICKI VOL. 2 PP. 237-240 (1986).
4. B. K. PAPADOPOULOS, PROPER TOPOLOGIES ON THE SET, GLASNIK MATEMATICKI VOL. 23 (43) PP. 143-146 (1988).
5. B. K. PAPADOPOULOS, TOPOLOGIES ON THE SET OF CONTINUOUS MULTIFUNCTIONS, MATHEMATICA JAPONICA 33 NO 5 PP. 769-776 (1988).
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### 15.4. References to my Scientific Papers

There are more than five hundred (550) references to my scientific papers.

□ h-index (From Scopus) = 7

(<http://www.scopus.com/authid/detail.url?authorId=7003614199>)

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