

# **CURRICULUM VITAE**

**Professor Dr. Theodore E. Simos,  
Academician**

**South Ural State  
University/  
Ural Federal  
University/  
Democritus University  
of Thrace**

**December 2020**

# **CURRICULUM VITAE**

**Professor Dr. THEODORE SIMOS**

**Highly Cited Researcher in Mathematics**

**Professor, Senior Researcher, South Ural State  
University, 76 Lenin Aven., Chelyabinsk, Russia 454080**

**Leader of the Scientific Group on Numerical and Applied  
Mathematics on Urgent Problems of Energy and Power  
Engineering, Ulyanovsk State Technical University,  
Ulyanovsk, Russian Federation**

**Group Leader, Group of Modern Computational  
Methods, Ural Federal University, 620002, 19 Mira  
Street, Ekaterinburg, Russian Federation**

**Editor-in-Chief: Applied Mathematics  
and Computation (Elsevier)**

**Member of the Editorial Board of the Annals of the  
European Academy of Sciences**

**Active Member of the European Academy of Sciences  
and Arts**

**Active Member of the European Academy of Sciences  
Corresponding Member of European Academy of Arts,  
Sciences and Humanities**

**Fellow of the Royal Society of Chemistry (FRSC)**

## PERSONAL DETAILS

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*Date & Place of Birth:* July 10, 1962 - Athens, Greece.

*Nationality:* Greek,

*Marital Status:* Married.

*Work Address:* Senior Researcher, Regalscope LTD, Paphos, Cyprus.

*Mailing Address:* 10 Konitsis Street, Amphythea - Paleon Faliron, Athens - 175 64, Greece

*Telephone numbers* +30-210-9421510

*Mobile:* +30-6945-592-685

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*e-mail:* [tsimos.conf@gmail.com](mailto:tsimos.conf@gmail.com), [simost@susu.ru](mailto:simost@susu.ru),  
[simos@ulstu.ru](mailto:simos@ulstu.ru)

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## EMPLOYMENT HISTORY

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- 05/12/2020- Winner of 8<sup>th</sup> Competition of Mega Grants, Russian Federation: <https://p220.ru/en/>. 465 applications and only 43 winners (see <https://p220.ru/en/contests/8-contest/>). In Mathematics only 3 winners. Period: 2021 – 2023. Leading Scientist with Ulyanovsk State Technical University.
- 18/12/2019 - Professor, Senior Researcher, South Ural State University, 76 Lenin Aven., Chelyabinsk, Russia 454080
- 26/11/2019 - Leader of the Scientific Group on Numerical and Applied Mathematics on Urgent Problems of Energy and Power Engineering, Ulyanovsk State Technical University, Ulyanovsk, Russian Federation
- 12/2017- Visiting Professor, Department of Civil Engineering, School of Engineering, *Democritus University of Thrace*, Greece

- 11/2017 – 03/2019, Distinguished Visiting Professor, Department of Automation Engineering, TEI of Sterea Hellas, GR 34400, Psahna Campus, Greece
- 01/01/2018 – 31/12/2019 Professor of Mathematics, College of Sciences, King Saud University, Department of Mathematics, P. O. Box 2455, Riyadh 11451, Saudi Arabia (Distinguished Scientist Fellowship Program)
- 13/10/2016 - Group Leader, Group of Modern Computational Methods, Ural Federal University, 620002, 19 Mira Street, Ekaterinburg, Russian Federation
- 04/2010 – 10/2016, Visiting Professor of Numerical Analysis, College of Sciences, King Saud University, Department of Mathematics, P. O. Box 2455, Riyadh 11451, Saudi Arabia (Distinguished Scientist Fellowship Program)
- 06/04/2011 – 08/2014, Honorary Associate of the Institute for Theoretical Physics And High Mathematics Einstein-Galilei (IFM)
- 03-2013 – 10-11-2017 Professor of Numerical Analysis with Applications on Computational Physics and on Computational Chemistry, Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, *University of Peloponnese*, Greece.
- 2004 – 03-2013, Professor of Numerical Analysis with Applications on Computational Physics and on Computational Chemistry, Department of Computer Science and Technology, Faculty of Science and Technology, *University of Peloponnese*, Greece.
- 2007- 31/08/2017, Adjunct Full Professor, Mathematics, Greek Open Univesrity
- 2002 – 2004, Associate Professor of Numerical Analysis and Operational Research, Department of Computer Science and Technology, Faculty of Science and Technology, *University of Peloponnese*, Greece.
- 2000 - 2002, Associate Professor of Numerical Analysis and

- Operational Research, Department of Civil Engineering, School of Engineering, *Democritus University of Thrace*, Greece.
- 2002 – 2005, Visiting Professor, *Anglia Polytechnic University*, UK
- 1996 – 2002, Visiting Research Fellow, *London Guildhall University*, UK
- 1996-2000, Assistant Professor of Numerical Analysis and Operational Research, Department of Civil Engineering, School of Engineering, *Democritus University of Thrace*, Greece.
- 1995-1996, Assistant Professor of Numerical Analysis and Computational Mathematics, *Technical Univ. of Crete*, Greece.
- 1994-1995, Visiting Assistant Professor, *Technical Univ. of Crete*, Greece.
- 1991-1993, Research Fellow, *Agricultural University of Athens*, Greece.
- 1991-1992, Military Service, Greek Air Force.
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## **ACADEMIC ADMINISTRATION & SERVICE**

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- 2/2007 – 01/2009, Head of the Department of Computer Science and Technology, Faculty of Science and Technology, University of Peloponnese, Greece.
- 10/2002-01/2007, Vice-Head of the Department of Computer Science and Technology, Faculty of Science and Technology, University of Peloponnese, Greece
- 01/09/2013- Member of the Governing Assembly of the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese, Greece
- 10/2002-31/08/2013 Member of the Governing Assembly of the Department of Computer Science and Technology, Faculty of Science and Technology, University of Peloponnese, Greece
- 2001-2002, Head of the Section of Mathematics, School of Engineering, Democritus Univ. of Thrace.
- 1996-2002, Member of the Governing Assembly of the Section of Mathematics, School of Engineering, Democritus Univ. of Thrace.
- 1998-2000, Head/Vice-Head of the Acquisitions Approval Committee,

- 1997-2000,  
and 2001-2002 School of Engineering, Democritus Univ. of Thrace.  
Member of the Governing Assembly of the Department of  
Civil Engineering, School of Engineering, Democritus Univ. of  
Thrace.
- 1997-1998, Member of the Purchasing Committee (for large amounts),  
School of Engineering, Democritus Univ. of Thrace.
- 1994-1996, Member of the Governing Assembly of the Department of  
Sciences, Technical University of Crete.
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## DEGREES/QUALIFICATIONS

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- 1987-1990 **PhD** in Numerical Analysis, Department of Sciences, *National  
Technical University of Athens*, Greece.
- 1980-1986 **BSc/MSc (Integrated MSc)** degree on Mining and Metallurgical  
Engineering, Department of Mining and Metallurgical Engineering,  
*National Technical University of Athens*, Greece.

**Languages:** Greek (mother tongue), English, French.

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## ACADEMIC AWARDS

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- 1989-1990 *Erasmus Programme Mobility Scholarship* awarded by the EC to  
work at the *University of Glasgow* with Prof. A.C. Allison, as a part  
of my doctoral research (see paper 14).
- 1987-1990 *PhD Scholarship* awarded by the “Bodosakis Foundation” after exams.
- 1981-1986 *Undergraduate Scholarship* awarded by “Othon and Athena  
Stathatos Foundation” after exams.
- 1985 “Dimitrios Thomaidis Award” for being the top student in my class,  
by the “National Technical University of Athens”.
- 1975-1980 *High-School Scholarship* awarded by “Othon and Athena Stathatos  
Foundation” after exams.

- 2002      *Computational and Mathematical Methods in Sciences and Engineering Prize (CMMSE 2002 Prize)* for my contribution in Computational and Mathematical Methods in Sciences and Engineering. This prize was given in the Conference CMMSE 2002, Alicante, Spain, 20-25 September 2002.
- 2010      Empirikos Foundation, £ 24000 for my outstanding research work. This was the first award among 459 applications.
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## **AUTHORED BOOKS**

(for research publications see below)

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- T. Simos:            “Introduction to Numerical Analysis”, 1999, Democritus University of Thrace Publishing.
  - G. Avdelas, T. Simos: “Introduction to Operational Research”, 2001, Symeon Publishing.
  - G. Avdelas, T. Simos: “Scientific Programming”, 2001, Symeon Publishing.
  - G. Avdelas, T. Simos: “Numerical Analysis”, 2001, Symeon Publishing.
  - G. Avdelas, T. Simos: “Num. Linear Algebra”, 2001, Symeon Publishing.
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## **TEACHING EXPERIENCE**

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- 2002-10-11-2017    University of Peloponnese, Faculty of Sciences and Technology, Department of Computer Science and Technology and Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics  
*Courses:* Numerical Analysis, Numerical Linear Algebra, Computational Sciences, Operational Research (Undergraduate), Combinatorial Optimization

- 1996-2002, Democritus University of Thrace, School of Engineering.  
*Courses:* Numerical Analysis, Scientific Programming, Operational Research 1 & 2, Introduction to Programming (Undergraduate). Applied Mathematics, Advanced Programming with Matlab, Mathematica etc, Optimization Methods, Numerical Analysis of Differential Equations, Numerical Linear Algebra (Postgraduate).
- 1994-1996, Technical University of Crete, School of Engineering.  
*Courses:* Numerical Analysis, Scientific Programming, Numerical Linear Algebra.
- 1990-1993, Agricultural University of Athens.  
*Courses:* Numerical Analysis, Scientific Programming.
- 1987-1991, National Technical University of Athens (as Teaching Assistant).  
*Courses:* Numerical Analysis, Scientific Programming
- 1986-1988, Hellenic Statistical Institute, Athens, Greece.  
*Courses:* Scientific Programming, Computational Statistics.

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## COURSE DEVELOPMENT

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I have developed all the courses I taught/teach since 1990 and onwards.

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## MEMBERSHIP OF ACADEMIC ORGANIZATIONS

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- American Mathematical Society,
- Greek Chamber of Engineers,
- Institute of Physics (Chartered Physicist)
- New York Academy of Sciences.
  
- **President of the European Society of Computational Methods in Sciences and Engineering (ESCMSE)**
  
- **Fellow of the Royal Society of Chemistry (FRSC)**



## RESEARCH INTERESTS

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(1) Scientific Computation. (2) Applied Numerical Analysis. (3) Computational Chemistry. (4) Computational Material Sciences. (5) Computational Physics. (6) The numerical solution of the Schrödinger equation and related problems. (7) The numerical solution of Partial Differential Equations of the Schrödinger type. (8) The numerical solution of first and second order periodic and oscillatory initial-value problems. (9) The numerical solution of second order boundary-value problems. (10) The numerical solution of engineering, physical chemistry and chemical physics problems, (11) Parallel algorithms and expert systems. (12) Development of software packages. (13) Constraint optimisation problems.

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## RESEARCH FUNDING

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RESEARCH FUNDING (Research students, research projects etc) at total: £ 250000 (See APPENDIX A).

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## HIGHLY CITED RESEARCHER

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I have been selected as Highly Cited Researcher in Mathematics in the list of 2001-2013 (old methodology).

<https://hcr.clarivate.com/resources/archived-lists/>

I have been selected as Highly Cited Researcher in Mathematics in the list of 2017 (new methodology).

<https://hcr.clarivate.com/resources/archived-lists/>

I have been selected as Highly Cited Researcher in Mathematics in the list of 2018 (new methodology).

<https://hcr.clarivate.com/>

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## MEMBER OF ACADEMIES

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**Active Member of the European Academy of Sciences and Arts.** Date of Election: 8 November 2002.

**Active Member of the European Academy of Sciences** since 26/03/2009. Previously, I was a Corresponding Member (Election on 13 October 2003).

**Corresponding Member of European Academy of Arts, Sciences and Humanities.** Election 30 October 2004.

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## SERIES EDITOR

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**Series Editor** with **IMPERIAL COLLEGE PRESS**. The title of the series is "*Computational, Numerical and Mathematical Methods in Sciences and Engineering*".

**Series Editor** with **VSP/Brill Academic Publishers**. The title of the series is "*Lecture Series on Computer Science and on Computational Sciences*" - **Discontinued 2006**.

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## EDITOR-IN-CHIEF OF INTERNATIONAL SCIENTIFIC JOURNALS

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- **Editor-in-Chief (Since 01-01-2014)** of the journal: **Applied Mathematics and Computation (Elsevier)**. Impact Factor: 2.300 and 5-years Impact Factor: 2.108.  
URL: <https://www.journals.elsevier.com/applied-mathematics-and-computation>

- **Editor-in-Chief** of the journal: **Journal of Computational Methods in Sciences and Engineering** (IOS Press, The Netherlands) URL: <https://www.iospress.nl/journal/journal-of-computational-methods-in-sciences-and-engineering/>
- **Editor-in-Chief** of the journal: **Journal of Numerical Analysis, Industrial and Applied Mathematics (JNAIAM) (ESCMSE)**. URL: <http://www.jnaiam.org/>. We note that JNAIAM is electronically free for the academic community.
- **Editor-in-Chief** of the new journal: **Computing Letters (ESCMSE)**.
- **Editor-in-Chief** of the journal: **Applied Numerical Analysis and Computational Mathematics (ANACM) (Wiley-VCH)**. URL: <http://www3.interscience.wiley.com/cgi-bin/jhome/106571062> (2004-2005)

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## SENIOR EDITOR

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- **Senior Editor of the journal: Applied Mathematics and Computation (Elsevier) (until 31/12/2013)**.

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## HONORARY ADVISORY BOARD

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Recently I have been invited as member of the Honorary Advisory Board for the new international journal: International Journal of Mathematical Modelling and Numerical Optimization (Editor-in-Chief Prof. Dr. Xin-She Yang, Department of Engineering, University of Cambridge). The reason given for this invitation: «As you are an internationally famous expert and as the editor-in-chief of several international journals, your experience and advice are very important».

<https://www.inderscience.com/jhome.php?jcode=ijmmno>

## MEMBER OF EDITORIAL BOARDS

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- **Editor** of the Journal of Mathematical Chemistry (Springer Nature).  
<https://www.springer.com/chemistry/physical+chemistry/journal/10910/PSE?detailsPage=editorialBoard>
- **Editor** of the Journal for Universal Computer Science (Springer-Verlag).  
[http://www.jucs.org/jucs\\_board\\_of\\_editors](http://www.jucs.org/jucs_board_of_editors)
- **Editor** of the Journal: Mediterranean Journal of Mathematics (MedJM) (Birkhäuser Verlag AG)  
<https://www.springer.com/birkhauser/mathematics/journal/9?detailsPage=editorialBoard>
- **Editor** of the journal: Mathematical Methods in the Applied Sciences.  
<https://onlinelibrary.wiley.com/page/journal/10991476/homepage/editorialboard.html>
- **Editor** of the journal: Carpathian Journal of Mathematics  
<https://www.carpathian.cunbm.utcluj.ro/editorial-board/>
- **Editor** of the journal: Cogent Mathematics  
<https://www.cogentoa.com/journal/mathematics-and-statistics/editors>
- **Editor** of the journal: Bulletin of the Malaysian Mathematical Sciences Society  
<https://www.springer.com/mathematics/journal/40840/PSE?detailsPage=editorialBoard>
- **Editor** of the journal: Journal of Applied Mathematics (Hindawi Publishing Corporation)  
<https://www.hindawi.com/journals/jam/editors/>
- **Editor** of the journal: International Journal of Mathematics and Mathematical Sciences (Hindawi Publishing Corporation)  
<https://www.hindawi.com/journals/ijmms/editors/>

- **Editor** of the journal: International Journal of Computing Science and Mathematics (IJCSM).  
<https://www.inderscience.com/jhome.php?jcode=ijcsm>
- **Editor** of the journal: Mathematical Sciences and Applications E Notes (MSA APPLMATH).  
<http://www.mathenot.com/>
- **Editor** of the journal: Mathematical & Computational Applications  
<https://www.mdpi.com/journal/mca/editors>
- **Editor of the Journal:** Open Computer Science  
<https://www.degruyter.com/view/j/comp>
- **Editor** of the Journal: Communications in Mathematical and in Computer Chemistry (MATCH). <http://match.pmf.kg.ac.rs/> (June 2016 - )
- **Editor** of the Journal: Applied and Computational Mathematics (Ministry of Communications and Information Technology (Azerbaijan), Azerbaijan National Academy of Sciences and Institute of Applied Mathematics of Baku State University). <http://acmij.az/view.php?lang=az&menu=2>  
(Invitation received 28/09/2016 - )
- **Editor** of the Journal: Sci (ISSN 2413-4155).  
<https://www.mdpi.com/journal/sci/editors> (Invitation received 07/08/2018 - )
- **Editor of the Journal:** Open Mathematics  
<https://www.degruyter.com/view/j/math>

I was member of the Editorial Board of the following journals:

- **Editorial Advisory Board** of the Journal Waves Wavelets and Fractals - Advanced Analysis (De Gruyter) (2015-2018)  
<http://www.degruyter.com/view/j/wwfaa>
- **Editor** of the Journal of Mathematical Modelling and Algorithms (Kluwer publications). <http://www.kluweronline.com/issn/1570-1166>
- **Associate Editor** of the Journal: International Journal of Applied Mathematics.

- **Editor** of the journal: Molecular Simulation (Taylor & Francis).  
<http://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=gmos20#.Vmmf9riLSUk>
- **Associate Editor** of the Journal Computers in Physics (American Institute of Physics).
- **Associate Editor** of the Journal of Statistics and Management Systems (Academic Forum) (1998-2004).
- **Editor** of the journal: SpringerPlus  
<http://www.springerplus.com/about/edboard>
- **Editor** of the Journal: Communications in Mathematical and in Computer Chemistry (MATCH). <http://ns.pmf.kg.ac.yu/match/> (2002-2007)
- **Editor of the Journal:** Applied Mathematics & Information Sciences (Natural Sciences Publishing Corporation)  
<http://www.naturalspublishing.com/show.asp?JorID=1&pgid=0>
- Sohag Journal of Mathematics, An International Journal  
<http://www.naturalspublishing.com/show.asp?JorID=36&pgid=153>
- **Editor** of the journal: Advances in Numerical Analysis (Hindawi Publishing Corporation) <http://www.hindawi.com/journals/ana/editors/>
- **Associate Editor** of the International Journal of Modelling and Simulation (ACTA Press).
- **Editorial Advisory Board** of the Journal of Chemical Information and Computer Sciences (American Chemical Society) – Period: 1998-2003.  
<http://pubs.acs.org/journals/jcis8/index.html>
- **Editorial Advisory Board** for Scientific Journals International (Mathematics).
- **Editor** of The Journal of Supercomputing (Kluwer publications).  
<http://www.kluweronline.com/issn/0920-8542>. (1998-end of 2003)

- **Editor** of the Journal: International Journal of Quantum Chemistry (Wiley & Sons) <http://www3.interscience.wiley.com/cgi-bin/jhome/29830> (1998-2009)
- **Editor** of the Communications in Nonlinear Sciences and Numerical Simulation (Elsevier Science Publishers B.V). <http://www.elsevier.nl/inca/publications/store/6/2/2/7/2/4/> (1998-end of 2003)
- **Editor** of the Journal: Mathematical and Computer Modelling (Elsevier Science Publishers B.V) <http://www.elsevier.nl/inca/publications/store/6/2/3/>
- **Regional Editor**, Journal of Computer Science, Science Publishers [http://www.scipub.org/scipub/eboard.php?i\\_id=jcs](http://www.scipub.org/scipub/eboard.php?i_id=jcs)
- **Editorial Advisory Board**, The Open Chemical Physics Journal, Bentham Open, Bentham Science Publishers. <http://www.bentham.org/open/tocpi/>

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## MEMBER OF EDITORIAL BOARDS, PROGRAM COMMITTEES IN INTERNATIONAL CONFERENCES

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- **Editor** of a session in *IMACS'94*.
- **Associate Co-Editor (with Professor Avdelas)** in the *International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'99)*.
- **Member of the International Program Committee (IPC)** of the International Conference: *Numerical Analysis and Applications (NAA'2000)*, Rousse, Boulgaria 11-15 June, 2000.
- **Member of Program Committee** of the *Fourth International Conference on Parallel Processing and Applied Mathematics (PPAM'2001)*, Poland, 9-12 September 2001.

- **Member of Program Committee** of the *4th Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-02)*, August 18-21, 2002.
- **Chairman of Computational Mathematics**, *CMMSE 2002, Alicante, Spain, 20-25 September 2002*.
- **Member of Program Committee** of the *5th Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA-03)*, Kaohsiung, Taiwan, October 6-9, 2003.
- **Member of Program Committee** of the *4th Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA-03)*, Nice, France, April 22-26, 2003.
- **Scientific Advisory Board** του *Second M.I.T. Conference on Computational Fluid and Solid Mechanics*, M.I.T., June 17 - 20, 2003.
- **Member of Program Committee** of the *Fourth International Conference on Parallel Processing and Applied Mathematics (PPAM'2003)*, Poland, 7-10 September 2003.
- **Member of the Technical Committee** του "*1<sup>st</sup> Workshop on Hardware/Software Support for Parallel and Distributed Scientific and Engineering Computing (SPDSEC-02)*", Charlottesville, Virginia, September 22-25, 2002, in conjunction with, The 11th International Conference on Parallel Architectures and Compilation Techniques.
- **Member of the Technical Committee** του "*2nd Workshop on Hardware/Software Support for High Performance Scientific and Engineering Computing (SHPSEC-03)*", New Orleans, Louisiana, Sep. 27--Oct. 1, 2003".
- **Invited Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003)*, Kastoria, Greece, 12-16 September 2003 [ICCMSE2003 Main page](#)
- **Vice Chair** of the *International Conference on Numerical Analysis & Computational Mathematics (NACoM-2003)*, Cambridge, UK, 23-26 May, 2003 <http://www.apu.ac.uk/appsci/math/NACoM-2003/>



- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS (ICNAAM 2004)*, Chalkkis, Greece, 10-14 September 2004. <http://www.uop.gr/~icnaam/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004)*, Hotel Armonia, Vouliagmeni-Kavouri, Greece, 19-23 November 2004 <http://www.uop.gr/~iccmse/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2005 (ICNAAM 2005)*, Hotel Esperides, Rhodes, Greece, 15-19 September 2005. <http://www.uop.gr/~icnaam/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005)*, Hotel Poseidon, Loutraki, Greece, 21-26 October 2005 <http://www.uop.gr/~iccmse/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2006 (ICNAAM 2006)*, Hotel Belvedere, Hersonissos, Crete, Greece, 15-19 September 2006. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2006 (ICCMSE 2006)*, Hotel Panorama, Chania, Crete, Greece, 27 October – 1 November 2006 <http://www.iccmse.org/>
- **Editorial Advisory Board** of the workshop *the Computer Aspects of Numerical Algorithms workshop (CANA'08)* within the framework of the *International Multiconference on Computer Science and Information Technology*. The conference was held in Wisła, Poland, October 20-22, 2008.
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2007 (ICNAAM 2007)*, Hotel Marbella, Corfu, Greece, 16-20 September 2007. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2007 (ICCMSE 2007)*, Hotel Marbella, Corfu, Greece, 25-30 September 2007 <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2008 (ICNAAM 2008)*, Hotel Kypriotis, Kos, Greece, 16-20 September 2008. <http://www.icnaam.org/>

- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2008 (ICCMSE 2008)*, Hotel Belvedere, Hersonissos, Crete, Greece, 25-30 September 2008. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2009 (ICNAAM 2009)*, Aquila Rithymna Beach, Rethymno, Crete, Greece, 18-22 September 2009. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2009 (ICCMSE 2009)*, Hotel Rodos Palace, Rhodes, Greece, 29 September - 04 October 2009. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2010 (ICNAAM 2010)*, Hotel Rodos Palace, Rhodes, Greece, 19-25 September 2010. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2010 (ICCMSE 2010)*, Hotel Kypriotis, Kos, Greece, 03 - 08 October 2010. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2011 (ICNAAM 2011)*, G-Hotels, Halkidiki, Greece, 19-25 September 2011. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2011 (ICCMSE 2011)*, G-Hotels, Halkidiki, Greece, 02 - 07 October 2011. <http://www.iccmse.org/>
- **Program Committee** INFOCOMP 2012, The Second International Conference on Advanced Communications and Computation, October 21-26, 2012 - Venice, Italy. <http://www.iaria.org/conferences2012/ComINFOCOMP12.html>
- **International Program Committee**, 3rd International Conference on Computer Modelling and Simulation Brno, Czech Republic, September 2012. <http://www.cssim.org/>

- **Program Committee** INFOCOMP 2013, The Third International Conference on Advanced Communications and Computation, November 17 - 22, 2013 - Lisbon, Portugal.  
<http://www.iaria.org/conferences2013/INFOCOMP13.html>
- **Program Committee** INFOCOMP 2014, The Fourth International Conference on Advanced Communications and Computation, July 20 - 24, 2014 - Paris, France.  
<http://www.iaria.org/conferences2014/INFOCOMP14.html>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2013 (ICNAAM 2013)*, Hotel Rodos Palace, Rhodes, Greece, 21-27 September 2013. <http://www.icnaam.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2014 (ICNAAM 2014)*, Hotel Rodos Palace, Rhodes, Greece, 24-28 September 2014. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2014 (ICCMSE 2014)*, Metropolitan Hotel, Athens, Greece, 04 - 07 April 2014. <http://www.iccmse.org/>
- **Program Committee** INFOCOMP 2015, The Fifth International Conference on Advanced Communications and Computation, June 21 - 26, 2015 - Brussels, Belgium.  
<http://www.iaria.org/conferences2015/INFOCOMP15.html>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2015 (ICNAAM 2015)*, Hotel Rodos Palace, Rhodes, Greece, 23-29 September 2015. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2015 (ICCMSE 2015)*, Metropolitan Hotel, Athens, Greece, 20 - 23 March 2015. <http://www.iccmse.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2016 (ICCMSE 2016)*, Metropolitan Hotel, Athens, Greece, 17 - 20 March 2016. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2016 (ICNAAM 2016)*, Hotel Rodos Palace, Rhodes, Greece, 19-25 September 2016. <http://www.icnaam.org/>

- **Program Committee** INFOCOMP 2016, The Sixth International Conference on Advanced Communications and Computation, May 22 - 26, 2016 - Valencia, Spain.  
<http://www.iaria.org/conferences2016/ComINFOCOMP16.html>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2017 (ICCMSE 2017)*, 21-25 April 2017, The MET Hotel, Thessaloniki, Greece. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2017 (ICNAAM 2017)*, 25-30 September 2017, The MET Hotel, Thessaloniki, Greece. <http://www.icnaam.org/>
- **Program Committee** INFOCOMP 2017, The Seventh International Conference on Advanced Communications and Computation, INFOCOMP 2017, June 25 - 29, 2017- Venice, Italy.  
<https://www.iaria.org/conferences2017/INFOCOMP17.html>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2018 (ICCMSE 2018)*, 14-18 March 2018, The MET Hotel, Thessaloniki, Greece. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2018 (ICNAAM 2018)*, 13-18 September 2018, Sheraton Hotel, Rhodes, Greece. <http://www.icnaam.org/>
- **Program Committee** INFOCOMP 2018, The Eighth International Conference on Advanced Communications and Computation, INFOCOMP 2018, July 22, 2018 to July 26, 2018 - Barcelona, Spain.  
<https://www.iaria.org/conferences2018/INFOCOMP18.html>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2019 (ICCMSE 2019)*, 01-05 May 2019, Sheraton Hotel, Rhodes, Greece. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2019 (ICNAAM 2019)*, 23-28 September 2019, Sheraton Hotel, Rhodes, Greece. <http://www.icnaam.org/>
- **Program Committee** INFOCOMP 2019, The Ninth International Conference on Advanced Communications and Computation, INFOCOMP 2019, July 28, 2019 to August 01, 2019 - Nice, France.  
<https://www.iaria.org/conferences2019/INFOCOMP19.html>

- **Program Committee** Numerical Computations: Theory and Algorithms (NUMTA2019), The 3rd International Conference and Summer School, dedicated to the 80th birthday of Professor Roman G. Strongin, June 15 – 21, 2019, TH Le Castella Village, Le Castella – Isola Capo Rizzuto, Crotone, Italy  
<http://si.dimes.unical.it/~yaro/numta2019/scicomm.php>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2020 (ICCMSE 2020)*, 29 April - 03 May 2020, Galaxy Hotel Iraklio, Heraklion, Crete – Greece. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2020 (ICNAAM 2020)*, 17-23 September 2020, Sheraton Hotel, Rhodes, Greece. <http://www.icnaam.org/>
- **Chair** of the *International Conference of Computational Methods in Sciences and Engineering 2021 (ICCMSE 2021)*, 04 - 07 September 2021, Galaxy Hotel Iraklio, Heraklion, Crete – Greece. <http://www.iccmse.org/>
- **Chair** of the *International Conference of NUMERICAL ANALYSIS & APPLIED MATHEMATICS 2021 (ICNAAM 2021)*, 20-26 September 2021, Sheraton Hotel, Rhodes, Greece. <http://www.icnaam.org/>

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## **FOUNDER OF CONFERENCES**

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- Founder of the Series of Conferences entitled “*International Conference of Computational Methods in Sciences and Engineering (ICCMSE)*”. The first Conference of this series took place at Kastoria 2003 (ICCMSE 2003). ICCMSE 2003 was recognized by the American Physical Society and the American Chemical Society.
- Founder of the Series of Conferences entitled “*International Conference of Numerical Analysis and Applied Mathematics (ICNAAM)*”. The first Conference of this series took place at Chalkis, Greece 2004 (ICNAAM 2004).

- Founder of the Series of Conferences entitled “*International e-Conference of Computer Science (IeCCS)*”. The first Web Conference of this series was held at 2005 (IeCCS 2005).
- Founder of the Series of Conferences entitled “*International Conference of Management and Marketing Sciences (ICMMS)*”. The first Conference of this series will be taken place at 2008 (ICMMS 2008)

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## GUEST EDITOR OF MILLENNIUM ISSUES

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- **Guest Editor** of the Millenium Issue (on Numerical Methods in Chemistry) of the Journal: ***Computers & Chemistry (Elsevier Science Publishers)***.
- **Guest Editor** of the Millenium Issue (on Numerical Methods in Physics) of the Journal: ***International Journal of Modern Physics C (World Scientific Publishing)***.

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## GUEST EDITOR OF SPECIAL ISSUES

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- **Guest Co-Editor (with Professor Avdelas and Professor Jesus Vigo-Aguiar)** of the Special Issue (on Numerical Methods in Physics, Chemistry and Engineering) of the Journal: ***Computers & Mathematics with Applications (Elsevier Science Publishers)***.
- **Guest Co-Editor (with Professor Ian Gladwell)** of the Special Issue (on Numerical Methods for ODE's) of the Journal: ***Mathematical and Computer Modelling (Elsevier Science Publishers)***.
- **Guest Editor (with Guest Co-Editor the Chairman of CMMSE 2002 Professor Jesus Vigo-Aguiar)** for the Special Issue “Selected Proceedings of CMMSE 2002” of the Journal: ***Journal of Computational and Applied Mathematics (Elsevier Science Publishers)***.

- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003), Kastoria, 12-16 September 2003*») of the: ***Journal of Computational and Applied Mathematics (Elsevier Science Publishers)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003), Kastoria, 12-16 September 2003*») of the: ***Journal of Mathematical Chemistry (Kluwer Publications)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003), Kastoria, 12-16 September 2003*») of the: ***Mathematical and Computer Modelling (Elsevier Science Publishers)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2003 (ICCMSE 2003), Kastoria, 12-16 September 2003*») of the: ***MATCH - Communications in Mathematical and in Computer Chemistry***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: ***Computational Materials Science (Elsevier Science Publishers)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: ***Journal of Computational and Applied Mathematics (Elsevier Science Publishers)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: ***Journal of Mathematical Chemistry (Kluwer Publications)***.
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: ***Journal of Computational and Applied Mathematics (Elsevier Science Publishers)***.

*Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004») of the: **Mathematical and Computer Modelling (Elsevier Science Publishers).***

- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: **Molecular Simulation (Taylor & Francis).**
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2004 (ICCMSE 2004), Hotel Armonia, Vouliagmeni, Athens, 19-23 November 2004*») of the: **Applied Mathematics and Computation (Elsevier Science Publishers).**
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005), Hotel Poseidon, Loutraki, Korinthos, 26 October – 1 November 2005*») of the: **Applied Mathematics and Computation (Elsevier Science Publishers).**
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005), Hotel Poseidon, Loutraki, Korinthos, 26 October – 1 November 2005*») of the: **Journal of Mathematical Chemistry (Kluwer Publications).**
- **Guest Editor** for the Special Issue (entitled «*Selected Papers from the Conference: International Conference of Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005), Hotel Poseidon, Loutraki, Korinthos, 26 October – 1 November 2005*») of the: **Mathematical and Computer Modelling (Elsevier Science Publishers).**
- **Guest Editor** για την έκδοση του Special Issue (entitled «*Numerical Methods in Chemistry*») of the: MATCH Commun. Math. Comput. Chem. (University of Kragujevac). <http://match.pmf.kg.ac.rs/content60n3.htm>
- **Guest Editor** για την έκδοση Special Issue για το συνέδριο του ICNAAM 2012 του περιοδικού: Applied Mathematics and Information Sciences (Indexed in SCI).



- **Guest Editor** για την έκδοση Special Issue του περιοδικού: Abstract and Applied Analysis (Indexed in SCI).
- **Guest Editor** για την έκδοση Special Issue για το συνέδριο του ICNAAM 2013 του περιοδικού: Applied Mathematics and Information Sciences (Indexed in SCI).

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## RESEARCH ACTIVITIES

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1. Author or co-author of 628 original research papers in English, all of which have already appeared in international refereed journals or Conferences (see Research Works sections B, C, D, E, F). Co-author of 7 internal refereed technical reports. Co-author of 1 internal technical report. 1 Dissertation. 4 Review Papers and 8 chapters in research books. More specifically:

***Papers in SCI (ISI – Web of Science) – Thomson Reuters (last updated 12/12/2020): 466***

***Review Papers in SCI (ISI – Web of Science) – Thomson Reuters: 4***

***Book Reviews in SCI (last updated 24/03/2019): 1***

***Papers not appearing in SCI (ISI – Web of Science) – Thomson Reuters (last updated 24/03/2019): 19***

***Chapters in Research Books (last updated 24/03/2019): 8***

***Dissertation (last updated 24/03/2019): 1***

***Books (in Greek) (last updated 24/03/2019): 5***

***Conferences' Papers in ISI – Web of Science***

***- CPCI – Thomson Reuters (last updated 17/09/2019): 140***

***Conferences' Papers not appearing ISI – Web of Science***

***- CPCI – Thomson Reuters (last updated 24/03/2019): 12***

***Technical Reports (last updated 24/03/2019): 8***

***Current Citations (excluding self-citations): 5280 (last update 12/12/2020)***

***Hirsch number (h-index) (last updated 16/07/2020): 74***

2. Participants in many International Conferences (see Research Works section C).
3. Referee for the Journals:

- a. **Journal of Computational Physics,**
- b. **Computer Physics Communications,**
- c. **Journal of Computational and Applied Mathematics,**
- d. **Journal of Physics A: Mathematical and General,**
- e. **Journal of Physics B: Atomic, Molecular & Optical Physics**
- f. **International Journal of Modern Physics C: Physics and Computers,**
- g. **Computers & Mathematics with Applications,**
- h. **Computers & Chemistry,**
- i. **Chemical Communications (on Numerical and mathematical methods)**
- j. **The Computer Journal,**
- k. **Computational and Mathematical Methods in Medicine**
- l. **Journal of Supercomputing**
- m. **Physics Letters A**
- n. **Physical Chemistry Chemical Physics**
- o. **International Journal of Biomathematics**
- p. **Journal of Function Spaces**
- q. **ACM Transactions on Mathematical Software (ACM TOMS)**
- r. **Journal of Chemical & Engineering Data (American Chemical Society)**
- s. **International Journal of Engineering Mathematics**
- t. **EPL (former Europhysics Letters)**
- u. **BIT Numerical Mathematics**
- v. **Applied Numerical Mathematics**
- w. **Electrochimica Acta**
- x. **Applied Mathematical Modelling**
- y. **International Journal for Numerical Methods in Biomedical Engineering**
- z. **Journal of Chemical Physics**
- aa. **International Journal of Differential Equations**
- bb. **Engineering Computations**
- cc. **Communications in Computational Physics (CiCP)**
- dd. **Abstract and Applied Analysis**
- ee. **Applied Mathematics Letters**
- ff. **Physica Scripta**
- gg. **Fixed Point Theory and Applications**
- hh. **Boundary Value Problems**

ii. **Mathematical Problems in Engineering**  
jj. **Discrete Dynamics in Nature and Society**  
kk. **Journal of Discrete Mathematics**  
ll. **West Indian Journal of Engineering**  
mm. **Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM)**  
nn. **Computational and Mathematical Methods in Medicine**  
oo. **Zentralblatt für Mathematik/Mathematics Abstracts,**  
pp. **Mathematical Review.**  
qq. **ACM Computing Reviews**  
rr. **Advances in Operations Research**  
ss. **International Journal of Biomathematics**  
tt. **Journal of Engineering**  
uu. **Italian Journal of Pure and Applied Mathematics**  
vv. **International Journal of Engineering Mathematics**  
ww. **Journal of Supercomputing**  
xx. **Journal of Function Spaces**  
yy. **Journal of Probability and Statistics**  
zz. **Communications in Nonlinear Sciences and Numerical Simulation**  
aaa. **Advances in Fuzzy Systems**  
bbb. **Advances in Operations Research**  
ccc. **International Journal of Biomathematics**  
ddd. **Journal of Engineering**  
eee. **Journal of Probability and Statistics**  
fff. **Italian Journal of Pure and Applied Mathematics**  
ggg. **Journal of Applied Analysis and Computation**  
hhh. **ASME Journal of Thermal Science and Engineering Applications**  
iii. **Journal of Process Control**  
jjj. **IEEE Access**  
kkk. **Journal of Applied Nonlinear Dynamics**  
lll. **Journal of Electroanalytical Chemistry**  
mmm. **International Journal of Computational Methods**  
nnn. **Physics of Plasmas**  
ooo. **Progress in Organic Coatings**  
ppp. **Engineering Science and Technology**  
qqq. **Arabian Journal of Chemistry**  
rrr. **Surfaces and Interfaces**  
sss. **International Journal of Mechanical Sciences**

4. Reviewer for promotion of academic staff in several Universities of the world

5. Reviewer of TÜBİTAK (The Scientific and Technological Research Council of Turkey) for TÜBİTAK Science Awards
6. Reviewer for the candidates for members of THE WORLD ACADEMY OF SCIENCES, for the advancement of science in developing countries
7. Supervisor and co-supervisor for PhD students.

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## **Sabbatical under my Supervision**

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Prof. Dr. Stavros Stavroyiannis, Department of Finance and Auditing, School of Management and Economics, Technological Educational Institute of Kalamata, Grece.

Assistant Professor Dr. Evgenia Varagouli-Xeidakis, Department of Civil Engineering, School of Engineering, Democritus University of Thrace, Grece.

Prof. Dr. Zacharoula Kalogiratou, Department of Informatics and Computer Technology, Technological Educational Institute of Western Macedonia at Kastoria, Greece

Prof. Dr. Charalambos Tsitouras, Department of Sciences, Technological Educational Institute of Chalkis, Greece

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## **PhD Students**

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### **Completed**

1. A. Konguetsof (2002) (Assistant Professor, Section of Mathematics, Department of Civil Engineering, Democritus University of Thrace)
2. Z. Anastassi (2006) (Assistant Professor in ASPAITE (2011-2012), Assistant Professor, Department of Mathematics, Statistics and Physics, College of

- Arts and Sciences, University of Qatar (2012-01/2018), Reader in Computational Mathematics, Faculty of Technology, School of Computer Science and Informatics, Institute of Artificial Intelligence, De Montfort University (02/2018 - ) Associate Editor of the Journal: Applied Mathematics and Computation (Elsevier) (2010-2012))
3. Th. Monovasilis (2006) (Full Professor in ATEI Western Macedonia, Editor of the Journal: Mathematical Methods in the Applied Sciences (Wiley))
  4. K. Tselios (2007) (Department of Educational Studies, Secondary Education of Western Macedonia)
  5. G. Panopoulos (2010) (Director IEK Arcadia)
  6. D. Papadopoulos (2010) (Assistant Professor, University of Patras)
  7. A. Costi (2011) (Researcher – Part Time staff De Montfort University)
  8. D. Sakas (2006) (Associate Professor, Agricultural University of Athens, with tenure))
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## **Appendix A:**

### **PARTICIPATION IN FUNDED RESEARCH PROJECTS**

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- Research Project: “Dynamically Adapted Methods for orbit computation”. Financier: Spanish Ministry of Research and Technology (CICYT). Project: BMF2000-1115. Duration: 2001-2003.
- Research Project: “Dynamically Adapted Methods with applications”. Financier: Prefecture of Castilla y Leon (JCYL). Project: SA 66/01. Duration: 2001-2003.
- Cooperation in research projects with “Anaptiksiaki Rodopis A.E.”
- Research Project: “Development of software for the numerical solution of differential equations and application in real problems”. Financed by: Region of West Macedonia (European project of West Macedonia)
- Research Project: “PRAXE – Non destructive evaluation of physical parameters with bioelectrical spectroscopy”. Scientific Coordinator: T.E. Simos, Professor of University of Peloponnese. Duration 18 months.
- Research Project: “Archimedes I – Support of scientific groups at TEI, Chalkis”. Participation as a researcher. Scientific coordinator: C. Tsitouras, Associate Professor of TEI, Chalkis. Duration: 2005-2008.
- Programs of General Secretariat of Youth: “Suggestion for the research

of volunteerism in Greece". Scientific Coordinator: T.E. Simos. Duration: 22 weeks. Start: May, 2005.

- Programs of General Secretariat of Youth: "Suggestion for the creation of material with aim for the sensitization of youth in volunteerism". Scientific Coordinator: T.E. Simos. Duration 15 weeks. Start: May, 2005.
- Program: EPEAEK – Department of Informatics and Technology of Computers. Scientific coordinator: Associate professor: Z. Kalogiratou. Start: September, 1<sup>st</sup>, 2005. Duration: 36 months.
- Program: PENED 2003 – a program for support of PhD studies in Greece: "Computational Geometry with applications in GIS and CAD systems". Scientific Coordinator: T.E. Simos, Professor of University of Peloponnese. Duration: 1/12/2005 – 30/06/2009.
- Research Project: "Pythagoras II – National Polytechnic School of Athens". Participation as a researcher. Scientific Coordinator: K. Nikolaidis. Duration: 1/12/2005 – 31/12/2008.
- Research Project 2010-2016: Distinguished Scientists Fellowship program, King Saud University.
- Research Project 2017-: Distinguished Scientists Fellowship program, King Saud University.
- Research Project: "Archimedes III – Support of scientific groups at TEI, of Western Macedonia". Participation as a researcher. Scientific coordinator: Z. Kalogiratou, Professor of TEI, Western Macedonia. Duration: 2012-2015.
- Mega Grant: Participation as Leading Scientist. Ulyanovsk State Technical University. Duration: 2021-2023.

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## **Appendix B:**

### **TEACHING EXPERIENCE**

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#### **1. UNDERGRADUATE**

1 1986-1987 & 1987-1988: Postgraduate Seminars of Greek Statistical Institute: "Computational Statistics" and "Programming Languages".

2 1987-1991: 1<sup>st</sup> semester: "Numerical Analysis". 2<sup>nd</sup> semester:

“Programming Languages” in several Departments of the National Technical University of Athens. 1<sup>st</sup> Semester of academic year 1990-1991: “Programming Languages I” in the Department of Agronomic and Topographic Engineering of the National Technical University of Athens.

3 Academic Years 1990-1991 – 1992-1993: “Numerical Analysis and Programming Languages” and “Numerical Analysis” in Several Departments of the Agricultural University of Athens.

4 Academic Years 1994-1995 – 1995-1996: “Programming Languages”, “Numerical Linear Algebra” and “Numerical Analysis” in Several Departments of the Technical University of Crete.

5 Academic Years: 1996-1997 – 1999-2000 and 2001-2002: “Programming with FORTRAN”, “Operational Research I and II”, “Programming Languages – FORTRAN, MATLAB”, “Numerical Analysis”, “Programming Languages and Information Management”, “Informatics” in the Departments of Civil Engineering and Environmental Engineering of the Democritus University of Thrace, Greece.

6 Academic Year 2000-2001: Sabbatical at the University of Salamanca (Department of Applied Mathematics), Spain. End of the Sabbatical: 28/2/2001.

7 Academic Year 2002-2003: “Linear Algebra” and “Calculus I and II” in the Department of Computer Science & Technology and in the Department of Telecommunications Science & Technology of the University of Peloponnese.

8 Academic Year 2003-2004 – 2008-2009: 1<sup>st</sup> Semester: “Numerical Analysis” and “Numerical Linear Algebra” in the Department of Computer Science & Technology and in the Department of Telecommunications Science & Technology of the University of Peloponnese. 2<sup>nd</sup> Semester: “Combinatorial Optimization” in the Department of Computer Science & Technology of the University of Peloponnese.

9 Academic Year 2009-2010: 1<sup>st</sup> Semester: Sabbatical at the University of Patras (Department of Chemistry), Greece. End of the Sabbatical: 28/2/2010. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Computer Science & Technology.

10 Academic Year 2010-2011: 1<sup>st</sup> Semester: “Numerical Analysis” in the Department of Telecommunications Science & Technology of the University of Peloponnese. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Computer Science & Technology, “Combinatorial Optimization” in the Department of Computer Science & Technology of the University of Peloponnese.

11 Academic Year 2011-2012: 1<sup>st</sup> Semester: “Mathematics I” in the Department of Computer Science & Technology of the University of

Peloponnese. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Computer Science & Technology, “Combinatorial Optimization” in the Department of Computer Science & Technology of the University of Peloponnese.

12 Academic Year 2012-2013: 1<sup>st</sup> Semester: “Mathematics I” in the Department of Computer Science & Technology of the University of Peloponnese. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Computer Science & Technology, “Combinatorial Optimization” in the Department of Computer Science & Technology of the University of Peloponnese.

13 Academic Year 2013-2014: 1<sup>st</sup> Semester: “Mathematics I” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese, “Combinatorial Optimization” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese.

14 Academic Year 2014-2015: 1<sup>st</sup> Semester: “Mathematics I” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese, “Combinatorial Optimization” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese.

15 Academic Year 2015-2016: 1<sup>st</sup> Semester: “Mathematics I” in the Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese. 2<sup>nd</sup> Semester: Sabbatical at the Department of Informatics of the Western Macedonia University of Applied Sciences

16 1<sup>st</sup> Semester: Sabbatical at the Department of Informatics of the Western Macedonia University of Applied Sciences. End of the Sabbatical: 01/2/2017. 2<sup>nd</sup> Semester: “Numerical Analysis” in the Department of Computer Science & Technology.

## 2. POSTGRADUATE

- **Academic Year: 1999 – 2000:** “Applied Mathematics” in the MSc



Program of the Department of Civil Engineering of the Democritus University of Thrace, Greece.

- **Academic Year: 2000 – 2001:** “Advanced Programming: MATLAB, MATHEMATICA, MAPLE”, “Optimization Methods” in the MSc Program of the Section of Mathematics of the Department of Civil Engineering of the Democritus University of Thrace, Greece.
- **Academic Year: 2001 – 2002:** “Numerical Solution of Differential Equations”, “Advanced Programming: MATLAB, MATHEMATICA, MAPLE”, “Optimization Methods”, “Numerical Linear Algebra” in the MSc Program of the Section of Mathematics of the Department of Civil Engineering of the Democritus University of Thrace, Greece. I notice that I was one of the founders of the MSc program of the Section of Mathematics of the Department of Civil Engineering of the Democritus University of Thrace, Greece.
- **Academic Year: 2009-2010:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece
- **Academic Year: 2010-2011:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece
- **Academic Year: 2011-2012:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece
- **Academic Year: 2012-2013:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece
- **Academic Year: 2013-2014:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece
- **Academic Year: 2014-2015:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece

Institute of Western Macedonia at Kastoria, Greece

- **Academic Year: 2015-2016:** “Qualitative Methods”, MSc Program of the Department of International Trade, Technological Educational Institute of Western Macedonia at Kastoria, Greece