

# CURRICULUM VITAE

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

(Updated 15/12/ 2015 for citations for the journal paper  
and for citations for editorials)

## **CURRICULUM VITAE**

**Professor Dr. THEODORE SIMOS**

**Highly Cited Researcher in Mathematics**

**Professor of Numerical Analysis  
King Saud University, Saudi Arabia  
(Distinguished Scientist Fellowship Program)  
University of Peloponnese, Greece**

**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:* Laboratory of Computational Sciences, Department of Informatics and Telecommunications, Faculty of Economy, Management and Informatics, University of Peloponnese, GR-221 00 Tripolis, GREECE.

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

*Telephone numbers:* +302710-372223, +30-210-9420091, +30-210-9421510

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

*Fax numbers:* +30-210-9420091,

*e-mail:* [tsimos.conf@gmail.com](mailto:tsimos.conf@gmail.com)

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## EMPLOYMENT HISTORY

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26/04/2010 –, 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 –, Honorary Associate of the Institute for Theoretical Physics and High Mathematics Einstein-Galilei (IFM)

2004 –, 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-, 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

- 1998-2000, Thrace.  
Head/Vice-Head of the Acquisitions Approval Committee,  
School of Engineering, Democritus Univ. of Thrace.
- 1997-2000,  
and 2001-2002 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** 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-      , 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)**

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## 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.

<http://hcr3.isiknowledge.com/author.cgi?&link1=Search&link2=Search%20Results&AuthLastName=Simos&AuthFirstName=&AuthMiddleName=&AuthMailnstName=&CountryID=-1&DisciplineID=0&id=6374>



## 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:1.600** and **5-years Impact Factor: 1.672**.  
**URL:** <http://www.journals.elsevier.com/applied-mathematics-and-computation/editorial-board/>

- **Editor-in-Chief** of the new journal: **Journal of Computational Methods in Sciences and Engineering (IOS Press, The Netherlands)** URL: <http://www.iospress.nl/journal/journal-of-computational-methods-in-sciences-and-engineering/>
- **Editor-in-Chief** of the new journal: **Computing Letters (VSP/Brill Publishers)**. URL: <http://www.vspub.com/journals/jn-ComLet.html>
- **Editor-in-Chief** of the new journal: **Applied Numerical Analysis and Computational Mathematics (ANACM) (Wiley-VCH)**. URL: <http://www3.interscience.wiley.com/cgi-bin/jhome/106571062> (2004-2005)
- **Editor-in-Chief** of the new 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.
- **Senior Editor of the journal: Applied Mathematics and Computation (Elsevier) (until 31/12/2013): one of the oldest journal on Applied Mathematics:** <http://www.journals.elsevier.com/applied-mathematics-and-computation/editorial-board/>

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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».

<http://www.inderscience.com/jhome.php?jcode=ijmmno#about>

## MEMBER OF EDITORIAL BOARDS

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- **Editor** of the Journal of Mathematical Chemistry (Kluwer publications).  
<http://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)  
<http://www.springer.com/birkhauser/mathematics/journal/9?detailsPage=editorialBoard>
- **Editor** of the journal: Molecular Simulation (Taylor & Francis).  
<http://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=gmos20#.Vmmf9riLSUk>
- **Editor** of the journal: Mathematical Methods in the Applied Sciences.  
[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1476/homepage/EditorialBoard.html](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1476/homepage/EditorialBoard.html)
- **Editor** of the journal: Carpathian Journal of Mathematics  
[http://carpathian.ubm.ro/?m=editorial\\_board/](http://carpathian.ubm.ro/?m=editorial_board/)
- **Editor** of the journal: SpringerPlus  
<http://www.springerplus.com/about/edboard>
- **Editorial Advisory Board** of the journal Waves Wavelets and Fractals - Advanced Analysis (De Gruyter)  
<http://www.degruyter.com/view/j/wwfaa>
- **Editor** of the journal: Journal of Applied Mathematics (Hindawi Publishing Corporation) <http://www.hindawi.com/journals/jam/editors/>
- **Editor** of the journal: International Journal of Mathematics and Mathematical Sciences (Hindawi Publishing Corporation) <http://www.hindawi.com/journals/ijmms/editors/>

- **Editor** of the journal: Advances in Numerical Analysis (Hindawi Publishing Corporation) <http://www.hindawi.com/journals/ana/editors/>
- **Editor** of the journal: International Journal of Computing Science and Mathematics (IJCSM).  
<http://www.inderscience.com/jhome.php?jcode=ijcsm#edboard>
- **Editor** of the journal: Mathematical Sciences and Applications E Notes (MSA APPLMATH).  
<http://www.mathenot.com/>
- **Editor** of the journal: Mathematical & Computational Applications  
[http://mcajournal.cbu.edu.tr/index.php?option=com\\_content&view=article&id=39&Itemid=34](http://mcajournal.cbu.edu.tr/index.php?option=com_content&view=article&id=39&Itemid=34)
- **Editor of the Journal:** Open Computer Science  
<http://www.degruyter.com/view/j/comp>
- **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 of Mathematical Modelling and Algorithms (Kluwer publications). <http://www.kluweronline.com/issn/1570-1166>
- **Associate Editor** of the Journal: International Journal of Applied Mathematics.
- **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: Communications in Mathematical and in Computer Chemistry (MATCH). <http://ns.pmf.kg.ac.yu/match/> (2002-2007)
- **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/jcisd8/index.html>
- **Editorial Advisory Board** for Scientific Journals International (Mathematics), Period: 2007 –
- **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?j\\_id=jcs](http://www.scipub.org/scipub/eboard.php?j_id=jcs)
- **Editorial Advisory Board**, The Open Chemical Physics Journal, Bentham Open, Bentham Science Publishers.  
<http://www.bentham.org/open/tocpj/>

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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, Bulgaria 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>

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## **FOUNDER OF CONFERENCES**

- 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: ***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 443 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: 327***  
***Review Papers in SCI (ISI – Web of Science) – Thomson Reuters: 4***  
***Book Reviews in SCI: 1***  
***Papers not appearing in SCI (ISI – Web of Science) – Thomson Reuters: 19***  
***Chapters in Research Books: 8***  
***Dissertation: 1***  
***Books (in Greek): 5***  
***Conferences' Papers in ISI – Web of Science***  
***- CPCI – Thomson Reuters: 84***  
***Conferences' Papers not appearing ISI – Web of Science***  
***- CPCI – Thomson Reuters: 12***  
***Technical Reports: 8***  
***Current Citations (excluding self-citations): 3282***  
***Hirsch number (h-index): 50***

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. **Proceedings of the Royal Society, Series A: Mathematical, Physical and Engineering Sciences**
- l. **International Journal for Numerical Methods in Fluids**
- m. **Physics Letters A**
- n. **Physical Chemistry Chemical Physics**
- o. **Polymer**
- p. **Nonlinear Analysis Series A: Theory, Methods & Applications**
- q. **ACM Transactions on Mathematical Software (ACM TOMS)**
- r. **Journal of Chemical & Engineering Data (American Chemical Society)**
- s. **Acta Applicandae Mathematicae**
- 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**

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. 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

## PhD Students

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### Completed

1. A. Konguetsof (2002) (Lecturer, Section of Mathematics, Department of Civil Engineering, Democritus University of Thrace)
2. Z. Anastassi (2006) (Assistant Professor in ASPAITE, Assistant Professor, Department of Mathematics, Statistics and Physics, College of Arts and Sciences, University of Qatar, Associate Editor of the Journal: Applied Mathematics and Computation (Elsevier))
3. Th. Monovasilis (2006) (Associate Professor in ATEI Kozanis, 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) (Lecturer in ATEI Patras)
7. A. Costi (2011) (Researcher University of Peloponnese/King Saud University)
8. D. Sakas (2006) (Teaching Fellow in University of Peloponnese(EEDIP – with tenure))

### Continued

1. Efstratios Bilis, 14/01/2013
2. Panagiotis Stasinou, 18/12/2013

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## Research Papers

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Sole Authorship (142): [D1], [P9], [P12], [P13], [P15], [P17], [P19-P21], [P23-P27], [P29-P37], [P42-P44], [P46-P50], [P53], [P59], [P62-P63], [P67-P68], [P70], [P72-P76], [P79], [P81], [P84-P85], [P88], [P91-P97], [P99-P103], [P105-P108], [P110-P120], [P127], [P130], [P132-P133], [P136-P137], [P146], [P148-P149], [P157], [P161], [P163], [P172-P173], [P184-P185],



[P187-P188], [P190-P191], [P193-P194], [P201], [P208], [P214-P215], [P218], [P225], [P231-P232], [P238], [P248], [P250-P251], [P254-P255], [P260], [P262], [P264], [P266], [P270-P271], [P275], [P288], [P303-P304], [P308], [P311-P312], [P317-P318], [P328], [P331], [P333], [P335-P337], [P339] [C1], [BR1], [R3-R8], [R10].

Main conjoint authorship (68): [P4], [P11], [P18], [P28], [P38-P41], [P45], [P54], [P58], [P60-P61], [P64], [P66], [P69], [P71], [P77], [P80], [P82-P83], [P87], [P90], [P98], [P104], [P122], [P126], [P131], [P140], [P142-P143], [P152], [P154-P156], [P164], [P167], [P170-P171], [P176], [P182], [P200], [P202], [P213], [P220], [P224], [P226], [P233], [P239-P240], [P274], [P281], [P284], [P302], [C2-C6], [C11], [C14], [C28-C31], [C87], [C96], [R1].

Other conjoint authorship (239): [P1-P3], [P5-P8], [P10], [P14], [P16], [P22], [P51-P52], [P55-P57], [P65], [P78], [P86], [P89], [P109], [P121], [P123-P125], [P128-P129], [P134-P135], [P138-P139], [P141], [P144-P145], [P147], [P150-P151], [P153], [P158-P160], [P162], [P165-P166], [P168-P169], [P174-P175], [P177-P181], [P183], [P186], [P189], [P192], [P195-P199], [P203-P207], [P209-P212], [P216-P217], [P219], [P221-P223], [P227-P230], [P234-P237], [P241-P247], [P249], [P252-P253], [P256-P259], [P261], [P263], [P265], [P267-P269], [P272-P273], [P276-P280], [P282-P283], [P285-P287], [P289-P301], [P305-P307], [P309-P310], [P313-P316], [P319-P327], [P329], [P332], [P334], [P338], [P340] [C7-C10], [C12-C13], [C15-C27], [C32-C86], [C88-C95], [R2], [R9], [R11], [BC1].

### **A. DOCTORAL DISSERTATION**

D1. Theodore E. Simos, Numerical Solution Of Ordinary Differential Equations with Periodical Solution, Doctoral Dissertation, National Technical University Of Athens, 1990.

### **B. REVIEW PAPERS - MONOGRAPHS**

R1. T.E. Simos and P.S. Williams, On finite difference methods for the solution of the Schrödinger equation, *Computers & Chemistry*, 23, 513-554(1999).

R2. J. Vigo-Aguiar and T.E. Simos, Review of multistep methods for the numerical solution of the radial Schrödinger equation, *INT J QUANTUM CHEM* 103 (3): 278-290 JUN 5 2005

R3. T.E. Simos, Atomic Structure Computations in **Chemical Modelling: Applications and Theory, Vol 1** (Editor: A. Hinchliffe, UMIST), pp. 38-142, The Royal Society of Chemistry, 2000. (after invitation).

R4. T.E. Simos, Numerical Methods for 1D, 2D and 3D Differential Equations Arising in Chemical Problems in **Chemical Modelling: Applications and Theory, Vol 2** (Editor: A. Hinchliffe, UMIST), pp. 170-270, The Royal Society of Chemistry, 2002. (after invitation).

R5 T.E. Simos, Numerical Methods in Chemistry in **Chemical Modelling: Applications and Theory, Vol 3** (Editor: A. Hinchliffe, UMIST), pp. 271-378, The Royal Society of Chemistry, 2004. (after invitation).

R6 T.E. Simos, Numerical Methods in Chemistry in **Chemical Modelling: Applications and Theory, Vol 4** (Editor: A. Hinchliffe, The University of Manchester), pp. 161-244, The Royal Society of Chemistry, 2006. (after invitation).

R7 T.E. Simos, Numerical Methods in Chemistry in **Chemical Modelling: Applications and Theory, Vol 5** (Editor: A. Hinchliffe, The University of Manchester), in press, The Royal Society of Chemistry, 2008. (after invitation).

R8 T.E. Simos, Numerical Methods in Chemistry in **Chemical Modelling: Applications and Theory, Vol 6** (Editor: Michael Springborg, Universitaet des Saarlandes), in press, The Royal Society of Chemistry, pp. 210-509, 2009. (after invitation).

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R10. T.E. Simos, Numerical Methods in Chemistry in **Chemical Modelling: Applications and Theory, Vol 7** (Editor: Michael Springborg, Universitaet des Saarlandes), The Royal Society of Chemistry, 2010, pp. 261-338, 2010, (after invitation).

R11. Z. Kalogiratou, Th. Monovasilis, G. Psihoyios, T.E. Simos, Runge–Kutta type methods with special properties for the numerical integration of ordinary differential equations, *Physics Reports*, Volume: 536 Issue: 3 Pages: 75-146 Published: MAR 20 2014

**C. PAPERS AND TECHNICAL REPORTS**

P1. G. Papageorgiou, T. Kalvouridis and Th. Simos: An application of the scaled Runge-Kutta algorithms to some problems of celestial mechanics, *Astrophysics and Space Science* 137, 129-138(1987).

P2. T. Kalvouridis, G. Papageorgiou and Th. Simos: A comparison of numerical integration methods in the equatorial magnetic-binary problem, *Astrophysics and Space Science* 139, 21-35(1987).

P3. G. Papageorgiou, Th. Simos and Ch. Tsitouras: Some new Runge-Kutta methods with interpolation properties and their application to the magnetic-binary problem, *Celestial Mechanics* 44, 167-177(1988).

P4. Th. Simos, T. Kalvouridis and G. Papageorgiou: Application of high order Runge-Kutta methods in the magnetic-binary problem, *Astrophysics and Space Science* 147, 271-285(1988).

P5. T. Kalvouridis, G. Papageorgiou and Th. Simos: On the integration of the magnetic-binary problem by Explicit-Runge-Kutta methods, Technical Report 1/1988, Department of Mathematics, National Technical University of Athens.

P6. C.D. Papageorgiou, A.D. Raptis and T.E. Simos: An algorithm for the solution of the eigenvalue Schrödinger equation, *Journal of Computational Physics*, 88, 477-483(1990).

P7. C.D. Papageorgiou, A.D. Raptis and T.E. Simos: A method for computing phase shifts for scattering, *Journal of Computational and Applied Mathematics*, 29, 61-67(1990).

P8. J.R. Cash, A.D. Raptis and T.E. Simos: A fortran program for the numerical integration of the one-dimensional Schrödinger equation using exponential and Bessel fitting methods, *Computer Physics Communications* 56, 391-407(1990).

P9. T.E. Simos: A four-step method for the numerical solution of the Schrödinger equation, *Journal of Computational and Applied Mathematics*, 30, 251-255(1990).

P10. J.R. Cash, A.D. Raptis and T.E. Simos: A sixth order exponentially-fitted method for the numerical solution of the radial Schrödinger equation, *Journal of Computational Physics* 91, 413-423(1990).

P11. T.E. Simos and A.D. Raptis: Numerov-type methods with minimal phase-lag for the numerical integration of the one-dimensional Schrödinger equation, *Computing*, 45, 175-181(1990).

P12. T.E. Simos: A two-step method with phase-lag of order infinity for the numerical integration of second order periodic initial-value problems, *International Journal of Computer Mathematics*, 39, 135-140(1991).

P13. T.E. Simos: Some new four-step exponential fitting methods for the numerical solution of the radial Schrödinger equation, *IMA Journal of Numerical Analysis*, 11, 347-356(1991).

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P15. T.E. Simos: A Numerov-type method for the numerical solution of the radial Schrödinger equation, *Applied Numerical Mathematics*, 7, 201-206(1991).

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P17. T.E. Simos: Explicit two - step methods with minimal phase-lag for the numerical integration of special second order initial value problems and their application to the one-dimensional Schrödinger equation, *Journal of Computational and Applied Mathematics*, 39, 89-94(1992).

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P21. T.E. Simos: An explicit almost P-stable two-step method with phase-lag of order infinity for the numerical integration of second order periodic

initial-value problems, Applied Mathematics and Computation, 49, 261-268(1992).

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P23. T.E. Simos: High - order methods with minimal phase-lag for the numerical integration of the special second order initial value problem and their application to the one-dimensional Schrödinger equation, Computer Physics Communications, 74, 63-66(1993).

P24. T.E. Simos: A new variable step method for the numerical integration of special second order initial value problems and their application to the one-dimensional Schrödinger equation, Applied Mathematics Letters, 6, 67-73(1993).

P25. T.E. Simos: A family of two-step almost P-stable methods with phase-lag of order infinity for the numerical integration of second order periodic initial-value problems, Japan Journal of Industrial and Applied Mathematics, 10, 289-297(1993).

P26. T.E. Simos: A predictor-corrector phase-fitted method for  $y''=f(x,y)$ , Mathematics and Computers in Simulation, 35, 153-159(1993).

P27. T.E. Simos: A P-stable complete in phase Obrechhoff trigonometric fitted method for periodic initial value problems, Proceedings of the Royal Society of London, Series A, 441, 283-289(1993).

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P30. T.E. Simos: Error analysis of exponential fitted methods for the numerical solution of the one-dimensional Schrödinger equation, Physics Letters A, 177, 345-350(1993).

P31. T.E. Simos: A high order predictor-corrector method for periodic ivps, Applied Mathematics Letters, 6, 9-12(1993).

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P38. T.E. Simos and G.V. Mitsou: A family of four-step exponential fitted methods for the numerical integration of the radial Schrödinger equation, *Computers and Mathematics with Applications*, 28, 41-50(1994).

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P43. T.E. Simos: An explicit four - step phase-fitted method for the numerical integration of second order initial-value problems, *Journal of Computational and Applied Mathematics*, 55, 125-133(1994).

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P45. T.E. Simos and G. Mousadis: A two-step method for the numerical solution of the radial Schrödinger equation, *Computers and Mathematics with Applications*, 29, 31-37(1995).

P46. T.E. Simos: An explicit high order predictor-corrector method for periodic initial-value problems, *Mathematical Models and Methods in Applied Sciences*, 5, 159-166(1995).

P47. T.E. Simos: A new method for computing eigenvalues of the radial Schrödinger equation, *Chemical Physics Letters*, 235, 321-326(1995).

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P50. T.E. Simos: Modified Runge-Kutta-Fehlberg methods for periodic initial-value problems, *Japan Journal of Industrial and Applied Mathematics*, 12, 109-122(1995).

P51. G. Avdelas and T.E. Simos: Block Runge-Kutta methods for periodic initial-value problems, *Computers and Mathematics with Applications*, 31, 69-83(1996).

P52. G. Avdelas and T.E. Simos: Embedded methods for the numerical solution of the Schrödinger equation, *Computers and Mathematics with Applications*, 31, 85-102(1996).

P53. T.E. Simos: Exponential fitted methods for the numerical solution of the Schrödinger equation, *Journal of Computational Mathematics*, 14, 120-134(1996).

P54. T.E. Simos and G. Tougelidis: A variable-step algorithm for computing eigenvalues of the radial Schrödinger equation, *International Journal of Quantum Chemistry*, 59, 477-485(1996).

P55. R.M. Thomas, T.E. Simos and G.V. Mitsou: A family of Numerov-type exponentially fitted predictor-corrector methods for the numerical integration of the radial Schrödinger equation, *Journal of Computational and Applied Mathematics*, 67, 255-270(1996).

P56. R.M. Thomas, T.E. Simos and G.V. Mitsou: A family of Numerov-type exponentially fitted predictor-corrector methods for the numerical integration of the radial Schrödinger equation, University of Manchester/UMIST Joint Numerical Analysis Report No 249(1994).

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P67. T.E. Simos, An eighth order method with minimal phase-lag for accurate computations for the elastic scattering phase-shift problem, *International Journal of Modern Physics C*, 7, 825-835(1996).

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P69. T.E. Simos and P.S. Williams, Bessel and Neumann fitted methods for the numerical solution of the radial Schrödinger equation, *Computers & Chemistry*, 21, 175-179(1997).

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P71. T.E. Simos and Ch. Tsitouras, A P-stable eighth order method for the numerical integration of periodic initial-value problems, *Journal of Computational Physics*, 130, 123-128(1997).

P72. T.E. Simos, New Numerov-type methods for computing eigenvalues, resonances and phase shifts of the radial Schrödinger equation, *International Journal of Quantum Chemistry*, 62, 467-475(1997).

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P74. T.E. Simos, Eighth order methods for elastic scattering phase-shifts, *International Journal of Theoretical Physics*, 36, 663-672(1997).

P75. T.E. Simos, An extended Numerov-type method for the numerical solution of the Schrödinger equation, *Computers and Mathematics with Applications*, 33, 67-78(1997).

P76. T.E. Simos, An accurate method for the numerical solution of the Schrödinger equation, *Modern Physics Letters A*, 12, 1891-1900(1997).

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P78. G. Papakaliatakis and T.E. Simos, A finite difference method for the numerical solution of fourth order differential equations with engineering applications, *Computers and Structures*, 65, 491-495(1997).

P79. T.E. Simos, An exponentially fitted method for the numerical solution of the Schrödinger equation, *Journal of Chemical Information and Computer Sciences*, 37, 343-348(1997).

P80. T.E. Simos and P.S. Williams, A family of Numerov-type exponentially-fitted methods for the numerical integration of the Schrödinger equation, *Computers & Chemistry*, 21, 403-417(1997).

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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-: Distinguished Scientists Fellowship program, King Saud University.
- Research Project: "Archimedes II – Support of scientific groups at TEI, of Western Macedonia". Participation as a researcher. Scientific coordinator: Z. Kalogiratou, Professor of TEI, Western Macedonia. Duration: 2013-2016.

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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.

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