

# CURRICULUM VITA

March 2008

**NAME:** Thiab R. Taha

**ADDRESS:** Department of Computer Science  
University of Georgia  
Athens, Georgia 30602-7404

**Citizenship:** USA

## EDUCATION:

Ph.D.	Clarkson University, Potsdam, NY	Applied Mathematics, & Computer Science	1982
M.Sc.	The University of Jordan, Amman, Jordan	Mathematics (Num. Analysis)	1977
B.Sc.	The University of Jordan, Amman, Jordan	Mathematics	1972

## DISSERTATION:

"On the Numerical and Analytical Aspects of Certain Nonlinear Evolution Equations"

## THESIS:

"Numerical Solutions of Reactant Concentration in Channels"

## RESEARCH:

1. Scientific Computing, computer software developments for solving evolution equations, optical fiber communication systems and systems of differential equations that model biochemical reaction network.
2. Applied Mathematics, Discrete forms of nonlinear wave equations.
3. Parallel algorithms for large scale computations.
4. Symbolic Computations.

## POSITIONS:

1982- Present	Professor (promoted 1994); Associate Professor (promoted 1988); Assistant Professor (1982 - 1988); Department of Computer Science, University of Georgia.
1995-96	Visiting Professor on a Fulbright Scholar to Jordan, Department of Computer Science, University of Jordan.
1985-86	Visiting Professor, College of Science and Technology, Jerusalem (on leave from the University of Georgia)
1982	Research Associate, Clarkson University (summer)
1978-82	Teaching Assistant, Clarkson University
1976-78	Instructor, Teachers' Training Institute, Jordan
1976-77	Instructor, University of Jordan
1974-78	Chairman and Instructor, Teachers' Training Institute, Jordan (summers)
1972-76	Secondary Education Teacher, Jordan

## HONORS:

1. Member of the Jordanian National Study group for the Improvement of Curricula and the Teaching of Mathematics.
2. Scholarship from the Jordanian Government for B.A. studies in Science/Math.
3. The 1985 winner of the M. G. Michael Award for Research in the Sciences at the University of Georgia.
4. Listed in the 1998 edition of American Men and Women of Science, by R. R. Bowker Data Collection Center.
5. Listed in the International Who's Who of Professionals (1997), published by Gibraltar Publishing, Inc., Vol. II, page 1-1288.
6. Member of the Middle East Advisory Panel on the Fulbright Senior Scholar Program for CIES (Council for International Exchange of Scholars), 1999 - present.

7. Keynote Speaker: "Parallel Numerical Investigation of Fiber Optics Communication Systems", The 2000 Arab Conference on Information Technology (ACIT'2000), Oct. 31 – Nov. 2, 2000, Zarka, Jordan.
8. Panel Session: "IT-The New Challenge to e or not to be", The 2000 Arab Conference on Information Technology (ACIT'2000), Oct. 31 – Nov. 2, 2000, Amman, Jordan.
9. Awarded the Zarka Private University Emblem, Jordan, November, 2000.
10. Keynote Speaker: "A Parallel Algorithm for Numerical Simulation of WDM Optical Fiber Communication Systems", The 2003 Arab Conference on Information Technology (ACIT'03), December 20-23, 2003, Alexandria, Egypt.
11. IMACS (International Association for Mathematics and Computers in Simulation) Events Coordinator, December 2005 – present.
12. Keynote Speaker: The First International Conference on Mathematical Sciences, May 15-17, 2006, Gaza, Palestine.
13. Member of the Board of Directors of the International Association for Mathematics and Computers in Simulation (IMACS), August 2005 – present.
14. Invited lecture by the Italian INdAM, "Numerical Methods for Solving Nonlinear Evolution Equations", presented at the meeting on *Mathematical Models for Complex Systems*, September 26-29, 2007, The Palazzone, Cortona (AR), Italy.

#### EXTERNAL GRANTS:

1. U.S. Army Research Office, "Interdisciplinary Study in Physical Mathematics", \$241,112 Oct. 1, 1987 - Sept. 30, 1990. With M. Adams, R. L. Anderson, J. Dorfmeister, D. P. Landau, R. A. Kunze, M. H. Lee, and R. Varley. For administrative purposes the Principal Investigators are designated to be Anderson, Kunze and Lee. The proposal is an umbrella for six separate but related research topics. Taha authored one, "IST Numerical Schemes of Certain Nonlinear Partial Differential Equations", and co-authored (with Anderson) another, "Perturbation of IST Numerical Schemes and Their Applications".
2. National Science Foundation, "Hypercube Acquisition", \$163,250 (W.B. McRae, P.I.) Feb. 15, 1988 - July 31, 1989. Contributed the proposal "Numerical schemes for equations solvable by IST and their perturbed forms applied to other physically interesting equations" which, with four other proposals, formed the research justification for this instrumentation grant.
3. NSF, "Computer and Information Science and Engineering (CISE) Research Instrumentation", (R. W. Robinson, P.I.) \$27,525 (with an equal matching fund from the University) 1989 - 1990. Contributed the proposal "Numerical schemes for equations solvable by IST and their perturbed forms applied to other physically interesting equations" which, with the other three proposals, formed the research justification for this instrumentation grant.
4. DOE, "Numerical Methods for Nonlinear Partial Differential Equations", \$94,599, July 15, 1990 - July 14, 1993.
5. Intel Corp., "Algorithms for IST Numerical Schemes", \$14,939, funds for maintaining UGA's hypercube parallel system; contributed one of seven projects in support of the technical justification of the proposal, and served as coordinator, February 1991 - February 1992.
6. NSF, "Mathematical Sciences Computing Research Environments", (Thiab R. Taha, PI) \$63,500 (with a matching fund of \$63,500 from the University) July 1, 1992 - June 30, 1995. Contributed the proposal "Parallel Algorithms for IST Numerical Schemes" which, with four other proposals, formed the research justification for this research grant.
7. Intel Corporation, "Research Partner Grant in Computational Science" (Thiab R. Taha, PI) \$192,905, 1993. Contributed the proposal "Parallel Algorithms for IST Numerical Schemes", which, with four other proposals, formed the research justification for this research grant.
8. Fulbright Scholar award in Jordan, 1995-96 academic year.
9. Fulbright Scholar award in Jordan (extension), June 26 - August 26, 1996.
10. "Acquisition of a Symmetric Multiprocessor Scientific Computer System", NSF, David Landau (P.I.), Hamid R. Arabnia, David Lowenthal, W. D. Potter, Thiab R. Taha, et al. \$420,000 (with matching funds of \$314,899 from OVPR and \$157,200 from UCNS), September 15, 1997 - September 14, 1999.
11. NSF, "The Second IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", \$13,817, Sept. 1, 2000 – Jan. 31, 2002.
12. International Engineering Consortium under a Faculty/Student grant for participation in the [IEC@SUPECOMM](mailto:IEC@SUPECOMM), June 3-6, 2002, Atlanta, GA., \$2,500.
13. NSF, Support for the Third IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory Conference", \$15,000, August 1, 2002 - October 31, 2003.

14. NSF, "Genomics and Computational Biology: a REU site" (PI: J. Arnold, Co-PI: D. Logan, S. Datta, S. Krusher, W. Seffens and T. Taha as Senior Personnel), \$210,000, March 1, 2003 - February 28, 2006.
15. NSF, Support for the Fourth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory Conference", \$15,000, August 1, 2004 - July 31, 2006.
16. NSF, "Support for the Fifth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory Conference", \$18,000, August 15, 2006 – July 31, 2008.
17. NSF, "Genomics and Computational Biology: a REU site", J. Arnold (PI), D. Logan, C. Teare-Ketter (Co-PIs), T. Taha, Senior Personnel, \$318,012, March 1, 2007 – February 29, 2010.

#### INTERNAL GRANTS:

18. Faculty Research Grants Proposal, approved for the amount of \$3,112. February 15, 1984, titled "On Numerical and Analytical Aspects of Certain Non-linear Evolution Equations."
19. Research foundation of the University of Georgia, approved for the amount of \$813 to present a paper at the International Symposium of Numerical Analysis held in Madrid, Spain, September 17-19, 1985.
20. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount of \$1215 to organize and chair a session and present a paper at the 13th IMACS World Congress on Computation and Applied Mathematics, Dublin, Ireland, July 1991.
21. The University Computing and Networking Services of the UGA, "Parallel Algorithms for IST Numerical Schemes", 80 hours of cpu time on the RS/6000 cluster along with 64MB of disk storage, July 15, 1992 - July 14, 1993.
22. The University Computing and Networking Services of the UGA, "Parallel Algorithms on Networked RS/6000", RS/6000 Model 340 workstation. (with E. Rodney Canfield, Jay Arenson, Jon Higbie), 1992.
23. The University Computing and Networking Services of the UGA, Parallel Algorithms for Blow-up in a Generalized KdV equation, 2000 hours of wall clock on the SP2 along with 64MB of disk storage on the RS/6000 cluster, Oct. 3, 1994 - July 1, 1995.
24. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount of \$1519.13 to organize and chair a session and present a paper at the 15th IMACS World Congress on Computation and Applied Mathematics, Berlin, Germany, Aug. 24-29, 1997.
25. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount \$2155 to chair a session and present an invited talk at the Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, Aug. 13-17, 1998, and to present an invited talk at the Ninth International Colloquium on Differential Equations, Plovdiv, Bulgaria, Aug. 18-23, 1998.
26. Proposal for Research Funding Support for Research Equipment, D. K. Lowenthal (PI), H. R. Arabnia, S. M. Bhandarkar, J. Kececioglu, and T. R. Taha (Co-PIs), Arts and Sciences Deans Office, \$16,963, 1998.
27. Research Foundation of the University of Georgia, Foreign Travel grant approved for the amount \$2,150.00, to organize and chair a session and present a paper at the 16<sup>th</sup> IMACS World Congress on Computation and Applied Mathematics, Lausanne, Switzerland, August 19-24, 2000.
28. UGA, President's Venture Fund, "Support for the ACM Southeast Conference" (with J. Miller and S. Smith), \$1,000, November, 2001.
29. UGA, President Venture Fund, "Support for the Third IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, \$2000, April 2003.
30. Research Foundation of the University of Georgia, Foreign Travel grant approved for the amount of \$1,730 to give a Keynote speech and chair a session at the 2003 Arab Conference on Information Technology (ACIT'03), December 20-23, 2003, Alexandria, Egypt.
31. Research Foundation of The University of Georgia, "Support for the Fourth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, \$3000, April 2005.
32. University of Georgia Provost's Office, International Travel grant for a partnership in Jordan, \$1,000, 2004.
33. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount of \$1,335.00 to organize and chair a session and present two papers at the 17<sup>th</sup> IMACS World Congress on computation and Applied Mathematics, Paris, France, July 11-15, 2005.
34. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount of \$1,095.00 to present a paper at The International Arabic Conference on Information Technology ACIT'2005, Al Isra private University, Amman, Jordan, December 6-8, 2005.
35. Research Foundation of the University of Georgia, Foreign Travel Grant approved for the amount of \$1,451.00 to present a paper at The First International Conference on Mathematical Sciences, Gaza, Palestine, May 15-17, 2006.
36. Contingency Fund from Engineering, UGA, \$500 for the travel to give a Keynote lecture at the first International Conference on Mathematical Sciences in Gaza, May 15-17, 2006.

37. Research Foundation of the University of Georgia, "Support for the Fifth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", \$3000, April 2007.

#### **INSTRUCTIONAL GRANTS:**

38. Office of Instructional Development at UGA, "Interactive Numerical Computation", \$2035, April 1991.
39. Office of Instructional Development at UGA, "Extension of MATLAB License", \$250, April 1992.
40. Office of Instructional Development at UGA, "Color Graphical Display of Computational Results", (with J. W. Smith) \$2,575, May 1993.
41. Office of Instructional Development at UGA, "Upgrading my PC for Instructional Development", \$312.00, Sept. 1994.
42. Office of Instructional Development at UGA, "Dynamic Interactive Presentation Tool", March 1995, \$2,500.00.

#### **GRANTS SUBMITTED:**

1. NSF, "MRI- Acquisition of a Computer Cluster for Bioinformatics research at UGA", Ying Xu (PI), T. Taha, Senior Personnel, \$910,139.00, with a cost-sharing of \$403,509 from UGA Research Foundation (UGARF), August 1, 2008 – July 3, 2011.
2. NSF, Undergraduate Research Opportunities in Quantitative Biology at the University of Georgia, Andrew Sornborger (PI), T.Taha Senior Personal, \$987,543.00, July 01, 2008 – June 30, 2013.

#### **PROFESSIONAL ACTIVITY:**

- Member of the Association of Computing Machinery (ACM).
- Member of the Society for Industrial and Applied Mathematics (SIAM).
- Member of the SIAM SEAS.
- Member of the International Association for Mathematics and Computers in Simulation (IMACS).
- Member of the SIAM Activity Group on Supercomputing.
- Member of the SIAM Activity Group on Computational Science and Engineering.
- Member of the SIAM Activity Group on Nonlinear Waves and Coherent Structure.
- Member of the IMACS technical committee on Dynamical Systems and Nonlinear Science, 1992 - present.
- Member of the International Scientific Program Committee of the 14th IMACS World Congress on Computational and Applied Mathematics, July 11-15, 1994, Atlanta, GA.
- Member of the Institute of Electrical and Electronics Engineers (IEEE), Inc.

#### **EDITORSHIP:**

1. Guest Editor of the Special issue of the Journal Mathematics and Computers in Simulation on "Solitons, Nonlinear Wave Equations and Computation", vol. 37, No. 4-5, December 1994.
2. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Computation of Nonlinear Phenomena", Vol. 43, No. 1, January 1997.
3. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Nonlinear Waves: Computation and Theory", Vol. 55, No. 4-6, March 2001.
4. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Method of Lines", Vol. 56, Issue 2, May 2001.
5. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Optical Solitons", Vol. 56, Issue 6, July 2001.
6. Editor of the "Book of Abstracts" for the Second IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, April 9-12, 2001, Athens, GA.
7. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Nonlinear Waves: Computation and Theory-II", Vol. 62, Issues 1-2, 2003.
8. Member of the Editorial Board of The International Arab Journal of Information Technology (IAJIT), 2002-present.
9. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Optical Solitons-II", 2004.
10. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on "Nonlinear Waves: Computation and Theory-III", Vol. 69, issues 3-4, June 2005.

11. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-IV”, Vol. 69, issues 5-6, August 2005.
12. Senior Editor for the Journal Mathematics and Computers in Simulation, December 2004 – present.
13. Editor of the “Book of Abstracts” for the Fourth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, April 11 – 14, 2005, Athens, GA.
14. Editor of the “Book of Abstracts” for the Fifth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, April 16 – 19, 2007, Athens, GA.
15. Member of the Board of Directors of the International Association for Mathematics and Computers in Simulation (IMACS), August 2005 – present.
16. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-V”, Vol. 74, Issue 2-3, March 2007.
17. Guest Editor of the Special Issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-VI”, Vol. 74, Issue 4-5, March 2007.
18. Member of the Editorial Board of the International Journal of Nonlinear Dynamical Systems and Chaos (IJNDSC), 2006 – present.
19. Associate Editor-in-Chief of the International Arab Journal of e-Technology (IAJeT).

#### **ORGANIZER/SESSION CHAIR:**

1. The 8th annual Southeastern-Atlantic Regional Conference on Differential Equations, University of Georgia, Athens, GA, November 4-5, 1988.
2. The 13th IMACS World Congress on Computation and Applied Mathematics, Dublin, Ireland, July 22-26, 1991.
3. The 7th IMACS International Conference on Computer Methods for PDEs, New Brunswick, NJ, June 22-24, 1992.
4. The 2nd IMACS International Conference on Computational Physics, St. Louis, MO, October 6-9, 1993.
5. The 14th IMACS World Congress on Computation and Applied Mathematics, Atlanta, GA, July 11-15, 1994. (Two multiple sessions)
6. The First International Conference on Neural, Parallel, and Scientific Computations, Atlanta, GA, March 28-31, 1995.
7. International Conference on Pure and Applied Mathematics (ICPAM95), Bahrain, Nov. 19-22, 1995.
8. The 11th International Conference on Mathematical and Computer Modelling and Scientific Computing (ICMCM & SC), Washington, DC, March 31 - April 3, 1997.
9. The 15th IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics, Berlin, Germany, Aug. 24-29, 1997.
10. Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, Aug. 13-17, 1998.
11. Session Chair: Introducing one of the key speakers at the IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 12-15, 1999.
12. Chairman and Conference Coordinator of the IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 12-15, 1999.
13. The 16th IMACS World Congress on Computation and Applied Mathematics, Lausanne, Aug. 21-25, 2000.
14. The First SIAM conference on Computational Science and Engineering, Washington, DC, Sept. 21-24, 2000.
15. Chairman and Conference Coordinator of the IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 9-12, 2001.
16. Session Chair: Introducing the first key speaker at the Second IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 9-12, 2001.
17. Publicity Chair of the 39<sup>th</sup> Annual ACM Southeast Conference, Athens, GA, March 16-17, 2001.
18. Session chair: The 39<sup>th</sup> Annual ACM Southeast Conference, Athens, GA, March 16-17, 2001.
19. Chairman and Conference Coordinator of the IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 7-10, 2003.
20. Session chair: The 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'02: Las Vegas, June 2002).
21. Session Chair: Introducing the first key speaker at the Third IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 7-10, 2003.
22. Program chair and conference coordinator of the Third IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 7-10, 2003.
23. Session Chair: The 2003 Arab Conference on Information Technology (ACIT'03), December 20-23, 2003, Alexandria, Egypt.

24. Session organizer and chair: “Nonlinear waves: computation and theory” at the 17<sup>th</sup> IMACS World Congress, Paris, France, July 11-15, 2005 (with Bratsos Athanasios).
25. Session Chair: The 2005 Arab Conference on Information Technology (ACIT’05), December 6-8, 2005, Amman, Jordan.
26. Events Coordinator: IMACS (International Association for Mathematics and Computers in Simulation), December 2005 – present.
27. Session Chair at the meeting on “Mathematical Models for Complex Systems”, The Palazzone, Cortona (AR), Italy, September 26 to 29, 2007.

#### **REFEREE FOR JOURNALS:**

- AIMS Book Series: Differential Equations and Dynamical Systems, 2006 – 2007.
- Journal of Computational Physics
- SIAM Journal on Scientific and Statistical Computing
- SIAM Journal on Applied Mathematics
- Applied Numerical Mathematics (IMACS Journal)
- Computers and Mathematics with applications
- Mathematics and Computers in Simulation
- Numerical Mathematics for Partial Differential Equations
- IEEE Software
- Institute of Physics Publishing Research Journal, UK, 1997 – present
- Simulation: The Journal of the Society for Computer Simulation, Hong Kong
- Journal of Science and Technology/Sultan Qaboos University of Oman
- Derasat/Journal of Sciences, University of Jordan, Jordan
- Journal of Physics A: Mathematical and General
- Journal of Physics B: Molecular and Optical Physics
- Numerical Algorithms, C. Brezinski, Editor-in-Chief, France.
- Reviewer of a database book by Munib Qtaishat published by the University of Jordan, Amman, Jordan, May 1999.
- The Korean Journal of Computational and Applied Mathematics.
- Journal of Parallel and Distributed Computing.
- IEEE Transactions on Systems, Man, and Cybernetics.

#### **REVIEWER FOR CONFERENCES/PROGRAM COMMITTEE MEMBER:**

- Symposium on Computers and Information Sciences, May 5-6, 1986, College of Science and Technology, Jerusalem.
- The 13th IMACS World Congress on Computation and Applied Mathematics, Dublin, Ireland, July 22-26, 1991.
- The 12th International Symposium on Distributed Computing Systems, Pacific Convention Plaza, Yokohama, Japan, June 9-12, 1992.
- The 21st Annual International Conference on Parallel Processing, Ann Arbor, MI, August 17-21, 1992.
- The 7th IMACS International Conference on Computer Methods for Partial Differential Equations, June 22-24, 1992, Rutgers University, New Brunswick, New Jersey.
- Program Committee member of The 2nd IMACS International Conference on Computational Physics, St. Louis, MO, October 6-9, 1993.
- The 14th IMACS World Congress on Computation and Applied Mathematics, Atlanta, GA, July 11-15, 1994.
- The First International Symposium on High-Performance Computer Architecture (HPCA), Raleigh, North Carolina, Jan. 22-25, 1995.
- The 15th IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics, Berlin, Germany, Aug. 24-29, 1997.
- Program Committee member of the First Southern Symposium on Computation, University of Southern Mississippi, Hattiesburg, MS, Dec. 4-5, 1998.
- Chair of the Scientific Program Committee of the IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 12-15, 1999.
- The 16th IMACS World Congress on Computation and Applied Mathematics, Lausanne, Aug. 21-25, 2000.

- Chair of the Scientific Program Committee of the Second IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 9-12, 2001.
- The 39<sup>th</sup> Annual ACM-SE Conference, Athens, GA, March 16-17, 2001.
- A member of the Steering Committee of the 2000 Arab Conference on Information Technology (ACIT' 2000) Oct. 31 – Nov. 2, 2000, Zarka, Jordan.
- A member of the Steering Committee of the 2001 Arab Conference on Information Technology (ACIT' 2000) Nov. 13 – 15, 2001, Jordan University of Science and technology, Jordan.
- Chair of the Scientific Program Committee of the Third IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 7-10, 2003.
- A member of the Steering Committee of the 2002 Arab Conference on Information Technology (ACIT'2002) December 16-19, 2002, Doha, Qatar.
- A member of the Review Committee of Applied Mathematics, Operational Research and Optimization Symposium held under the CESA'2003 in Lille, France, July 9-11, 2003.
- A member of the Steering Committee of the 2003 Arab Conference on Information Technology (ACIT'2003) December 20-23, 2003, Alexandria, Egypt.
- A member of the Steering Committee of the 2004 Arab Conference on Information Technology (ACIT'2004) December 12-15, 2004, Mentouri University of Constantine, Algeria.
- A reviewer for the 2004 Arab Conference on Information Technology (ACIT'2004) December 12-15, 2004, Mentouri University of Constantine, Algeria.
- A member of the Organizing Committee for the upcoming Bioinformatics Conference, 2005.
- Program Chair and conference coordinator of the Fourth IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 11-14, 2005.
- A reviewer for the 17<sup>th</sup> IMACS World Congress, Paris, France, July 11-15, 2005.
- A member of the International Program Committee for the 17<sup>th</sup> IMACS World Congress, Paris, France, July 11-15, 2005.
- A member of the Steering Committee of the 2005 Arab Conference on Information Technology (ACIT'2005), Al-Isra Private University, Jordan December 6-8, 2005.
- A reviewer for the 2005 Arab Conference on Information Technology (ACIT'2005) December 6 – 8, 2005, Al-Isra Private University, Jordan.
- A reviewer for the 2006 Arab Conference on Information Technology (ACIT'2006) December 19-21, 2006, Yarmouk University, Jordan.
- A member of the Steering Committee of the 2006 Arab Conference on Information Technology (ACIT'2006), December 19-21, 2006, Yarmouk University, Jordan.
- Program Chair and conference coordinator of the Fifth IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 16-19, 2007.
- Chair of the Scientific Program Committee of the Fifth IMACS International Conference on "Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory", Athens, GA, April 16-19, 2007.
- A Member of the Program Committee of the 3rd International Conference on IT; ICIT 2007, Al-Zaytoonah University, Jordan, May 9-11, 2007.
- A member of the Steering Committee of the IACeT'2008 International Arab Conference on e-Technology , October 15-16, 2008, Arab Open University, Amman-Jordan , Jordan.

#### **REVIEWER FOR FUNDING AGENCIES:**

- NSF grant proposals
- External reviewer of a grant proposal submitted to the Sultan Qaboos University, Muscat, Oman.
- External Reviewer: Board of Regents Support Fund (RCS proposals) for Fiscal Year 2002-03, Louisiana.
- Member of an NSF Numerical Computing Panel, July 31 - August 1, 2006.

#### **REVIEWER FOR PUBLISHING COMPANIES:**

- Brooks/Cole publishing: reviewer for Ward Cheney and David Kincaid's Numerical Mathematics and Computing, 6<sup>th</sup> edition, 2006.
- West Educational Publishing, a division of West Services, Inc.
- Macmillan Publishing Company, a division of MacMillan, Inc.
- PWS-Kent Publishing Company
- Kluwer Academic Publishers

## **OTHER ACTIVITIES:**

- External evaluator for promotion of a computer science faculty member at the University of Jordan, Amman, Jordan, 1999.
- External evaluator for promotion of a computer science faculty member at the Zarka Private University in Jordan, 1999.
- External evaluator for a promotion of a computer science faculty member at the Princess Summya University College for Technology, Jordan, April 2000.
- External evaluator for a promotion of a computer science faculty member at the Sultan Qaboos University, Muscat, Oman, May 2000.
- External evaluator for promotion of a computer science faculty member at the Zarka Private University in Jordan, 2000.
- External evaluator for promotion of a computer science faculty member at the Zarka Private University in Jordan, 2002.
- External evaluator for a promotion of a computer science faculty member at the Sultan Qaboos University, Muscat, Oman, October 2004.
- Evaluator of the Excellence in Research by Graduate Students Award nominees, UGA, 2004.
- External evaluator for a promotion of a Computer Science faculty member at King Abdul Aziz University, Jeddah, Kingdom of Saudi Arabia, December 2005.
- Judge for the Who's Who competition, Graduate School at UGA, 2005, 2006.
- External evaluator for promotion of a computer science faculty member at the Al Isra Private University in Jordan, 2006.
- External evaluator for promotion of a computer science faculty member at the Philadelphia University in Jordan, 2006
- External evaluator for a promotion of a computer science faculty member at the Sultan Qaboos University, Muscat, Oman, May 2006.
- External evaluator for a promotion of a computer science faculty member at the Open Arab University, Kuwait, August, 2007.
- External evaluator for the Quality Improvement Fund (QIF) for the Palestinian Tertiary Education Project that is funded by The World Bank – International Development Association, and the European Union (EU), June 2007.
- External evaluator for promotion of a computer science faculty member at the University of Jordan, Amman, Jordan, 2007.

## **TRAINEE COURSES ON PARALLEL COMPUTERS:**

1. Cyber 205 Training Seminar, University of Georgia, ACMC, August 31 – September 4, 1987.
2. A short course on Parallel Computation, organized by Lloyd Fosdick, SIAM 35th Anniversary Meeting, Denver, Colorado, October 11, 1987.
3. IBM 3090 Vector Seminar, University of Georgia, March 23-24, 1988.
4. Two Intel scientific computer training courses on the Hyper-cube, Beaverton, Oregon, June 13-17, 1988.
5. Teaching Parallel Computing, Portland, Oregon, April 28 - May 1, 1991.
6. SGI Origin 2000 Seminar, University of Georgia, Jan. 22-23, 1998.

## **Workshops:**

1. Computational Science Education Project (CSEP) Workshop for Educators, August 15-17, 1994 at Cornell Theory Center, Ithaca, NY. Sponsored by the Department of Energy and Co-sponsored by the National Science Foundation \$1206.75.
2. Forum on Parallel Computing Curricula, Wellesley College, MA, March 31 - April 1, 1995.
3. 1995 Academic Affairs Faculty Symposium "Peer Review: The Scholarship of Teaching", sponsored by UGA, Helen, GA, April 7-8, 1995.
4. Method of Lines for Time-Dependent Problems, University of Kentucky, May 31 - June 4, 1995.
5. Workshop on Teaching Calculus Using Computers, Mutah University, Jordan, April 8-10, 1996.
6. Symposium on "Preparing the Fulbright Exchange Program for the 21<sup>st</sup> Century", Emory University, The Carter Center, Atlanta, GA, Dec. 6, 1996.

## PUBLICATIONS:

1. Salah, M. and Taha, T., Reactant Concentration in Channels, *Egyptian Computer Journal*, (1979).
2. Nakamura, A. and Taha, T.R., Another form of the generalization of the KdV equation into the integro differential equations, *J. Phys. Soc. Japan*, 51, (1982) 681-683.
3. Nakamura, A. and Taha, T.R., Another form of the generalization of the KdV equation into the integro-differential equations, *J. Phys. Soc. Japan*, 51, (1982) 2695-2696.
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8. Book Chapter: J. Arnold, H.-B. Schuttler, D.A. Logan, D. Battogtokh, J. Griffith, B. Arpinar, S.M. Bhandarkar, S. Datta, K.J. Kochut, E. Kraemer, J.A. Miller, A. Sheth, G. Strobel, T. Taha, B. Aleman-Meza, J. Doss, L. Harris, and A. Nyong, (2004), *Metabolomics*, In *Handbook of Industrial Mycology*, Marcel-Dekker, New York, NY.
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10. Foreword for the special issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-IV”, Vol. 69, issues 5-6, August 2005.
11. Foreword for the special issue of the Journal Mathematics and Computers in Simulation on “Nonlinear Waves: Computation and Theory-V”, Vol. 74, Issue 2-3, March 2007.
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#### INVITED TALKS:

1. Optimization of Bit Rate in Optical Fiber Using Optical solitons, by A. Hasegawa, Y. Kodama, and Thiab R. Taha, presented at the conference "Sixth Topical Meeting on Integrated and Guided-Wave Optics", (Jan. 6-8, 1982), Asilomar Conference Center, Pacific Grove, California.
2. On comparisons between numerical schemes which are based on the Inverse scattering transform and certain known numerical schemes for the KdV and nonlinear Schrödinger equations, Florida State University, April 5, 1982, Mathematics Colloquium.
3. On numerical and analytical aspects of certain nonlinear evolution equations. I. University of Georgia, Physics Department, September 29, 1982.
4. On numerical and analytical aspects of certain nonlinear evolution equations. II. University of Georgia, Physics Department, October 6, 1982.
5. On Comparison between numerical schemes which are based on the IST and certain known numerical schemes for the Korteweg-de Vries and the nonlinear Schrödinger equations, Taha, T. and Ablowitz, M., First International conference on Mathematics in the Gulf area, Riyadh, Saudi Arabia, October 17-21, 1982.
6. On comparison between IST scheme, and other schemes for the KdV and NLS equations. Department of Statistics and Computer Science, University of Georgia, October, 1982.
7. On Solitons and exactly solvable nonlinear partial differential and partial difference equations, Ablowitz, M., and Taha, T., The fifth IMACS International Symposium on Computer Methods for PDE's, Bethlehem, PA, June 1984.
8. Numerical simulations of certain nonlinear evolution equations of physical interest, Taha, T., and Ablowitz, M., The fifth IMACS International Symposium on computer methods for PDE's, Bethlehem, PA, June 1984.
9. On Comparisons between numerical schemes which are based on the Inverse scattering transform and other known numerical schemes for certain nonlinear evolution equations, SIAM Summer Meeting, July 16-20, 1984, University of Washington, Seattle.
10. IST numerical schemes for nonlinear evolution equations of physical interest, by Thiab R. Taha and Mark J. Ablowitz, presented at the SIAM Spring Meeting, June 24-26, 1985, Pittsburgh, Pennsylvania.
11. IST numerical schemes for nonlinear evolution equations of physical interest, by Thiab R. Taha and Mark J. Ablowitz, presented at the ISNA, Sept. 17-19, 1985, Madrid, Spain.
12. IST numerical schemes for solving nonlinear evolution equations. Computer Sci. Dept., University of Jordan, Amman, Jordan, April 13, 1986.
13. On Comparison of numerical methods for solving Quasi-Tridiagonal systems of equations, presented at the Symposium on Computers and Information Sciences, May 5-6, 1986, College of Science and Technology, Jerusalem.
14. Numerical schemes for nonlinear evolution equations, presented at the Symposium on computers and Information Sciences, May 5-6, 1986, College of Science and Technology, Jerusalem.
15. Numerical simulation of the Modified Korteweg-de Vries equation, The sixth IMACS International Symposium on computer methods for PDE's, Bethlehem, PA, June 1987.

16. Numerical methods for solving differential equations, presented at the SIAM 35th Anniversary Meeting, Denver, Colorado, October 12-15, 1987.
17. Derivation and implementation of numerical methods for nonlinear evolution equations solvable by IST, University of Georgia, Seminar in Mathematics, Physics, and Computations, January 28, 1988.
18. On comparison of numerical methods for solving differential equations subjected to periodic boundary conditions, The 8th annual Southeastern-Atlantic Regional Conference on Differential Equations, University of Georgia, Athens, GA, November 4-5, 1988.
19. A parallel algorithm for the IST schemes, presented at the Fourth Conference on Hypercube Concurrent Computers and Applications, Monterey, California, March 6 - 9, 1989.
20. A new IST numerical scheme for the nonlinear Schrödinger equation, presented at the 1989 SIAM Annual Meeting, July 17-21, 1989, San Diego, California.
21. A parallel algorithm for solving higher KdV equations on a Hypercube, presented at the Fifth Distributed Memory Computing Conference, Charleston, SC, April 9-12, 1990.
22. Solution of Periodic Tridiagonal Systems of Equations on a Hypercube, presented at the Fifth Distributed Memory Computing Conference, Charleston, SC, April 9-12, 1990.
23. A new IST numerical scheme for the Nonlinear Schrödinger equation, presented at the IMACS International Conference on Computational Physics, Boulder, CO, June 11-15, 1990.
24. Parallel Processing with the Intel Hypercube, presented at the Center for Simulational Physics Workshop, Univ. of Georgia, Athens, GA, 1991.
25. A Parallel-Vector Algorithm for Solving Periodic Tridiagonal linear Systems of Equations, presented at the Sixth Distributed Memory Computing Conference, Portland, OR, April 28 - May 1, 1991.
26. A Parallel algorithm for an Investigation of a Self-Focusing Singularity of Higher KdV Equations, presented at the Fifth Conference on Domain Decomposition Methods for PDES, Norfolk, VA, May 6 - 8, 1991.
27. A Differential-Difference Equation for Higher Nonlinear Schrödinger Equation, presented at the 13th IMACS World Congress on Computation and Applied Mathematics, Dublin, Ireland, July 22-26, 1991.
28. A Parallel-Vector Algorithm for an Investigation of a self focusing Singularity of HKdV Equation, presented at the Tenth Parallel Circus, Oak Ridge, October 25-26, 1991.
29. Parallel Processing with the Intel Hypercube, presented at the Center for Simulational Physics Workshop, Univ. of Georgia, Athens, GA, February 17-21, 1992.
30. A Parallel-Vector Algorithm for solving higher KdV Equations, presented at the Permian Basin Supercomputing Conference, Odessa, Texas, March 13-15, 1992.
31. Nonlinear Evolution Equations, presented at the Georgia Tech-UAB International Conference on Differential Equations and Mathematical Physics, Atlanta, GA, April 22-28, 1992.
32. A Partial-Difference Equation for the Complex Modified Korteweg-de Vries Equation, presented at the 7th IMACS International Conference on Computer Methods for PDEs, New Brunswick, NJ, June 22-24, 1992.
33. Parallel Processing with the Intel Hypercube, presented at the Center for Simulation Physics Workshop, University of Georgia, Athens, GA, February 22-26, 1993.
34. An Algorithm for solving a 4-Diagonal Toeplitz Linear System of Equations on Vector Computers, presented at the Sixth SIAM Conference on Parallel Processing for Scientific Computing, Norfolk, VA, March 22-25, 1993.
35. A Parallel Algorithm for Solving Periodic Tridiagonal Toeplitz Linear Systems, presented at the Sixth SIAM Conference on Parallel Processing for Scientific Computing, Norfolk, VA, March 22-24, 1993.
36. IST Numerical Schemes for Nonlinear Evolution Equations, presented at the First International Conference on Dynamic Systems and Applications, Atlanta, GA, May 26-29, 1993.
37. Nonlinear Differential-Difference Equations for Certain Nonlinear Evolution Equations, presented at the 2nd IMACS Conference on Computational Physics, St. Louis, MO, October 6-9, 1993.
38. A Parallel-Vector Algorithm for an Investigation of a self focusing singularity of HKdV equation, presented at the 1994 Scalable High Performance Computing Conference, Knoxville, TN, May 23-25, 1994.
39. IST Numerical Schemes, presented at the 14th IMACS World Congress on Computation and Applied Mathematics, Atlanta, GA, July 11-15, 1994.
40. A Parallel Algorithm for Solving a 4-Diagonal Toeplitz Linear System of Equations, presented at the 1994 Transputer Research and Applications 7 (NATUG7), Athens, GA, Oct. 23-26, 1994.
41. A Parallel-Vector Algorithm for IST Numerical Schemes, presented at the First International Conference on Neural, Parallel, and Scientific Computations, Atlanta, GA, March 28-31, 1995.
42. IST Numerical Schemes for Nonlinear Evolution Equations and the Method of Lines, presented at the Workshop on The Method of Lines for Time-Dependent Problems, Lexington, KY, May 31, 1995 - June 3, 1995.
43. Method of Lines Solution of the K(2,2) Compacton (KdV-type) Equation, presented at the ICIAM95, The Third International Congress on Industrial and Applied Mathematics, July 3-7, 1995 Hamburg, Germany.

44. A Survey of IST Numerical Methods (Invited Talk), presented at the International Conference on Pure and Applied Mathematics (ICPAM95), Bahrain, Nov. 19-22, 1995.
45. Parallel Computing, Al-Zaytoonah University, Amman, Jordan, Dec. 25, 1995.
46. Parallel Processing, Universite Cadi Ayyad, Marrakkech, Morocco, April 19, 1996, (Invited by the Moroccan-American Commission for Educational and Cultural Exchange (MACECE).
47. IST numerical methods, Universite Cadi Ayyad, Marrakkech, Morocco, April 23, 1996, (Invited by the (MACECE).
48. A parallel algorithm for Numerical Simulations of KdV-like equations, 11th International Conference on Mathematical and Computer Modelling, and Scientific Computing (ICMCM&SC), Washington, DC, March 31 - April 3, 1997.
49. Methods of Lines Solution of the K(2,2) Compacton (KdV-type) Equation, 15th IMACS World Congress on Scientific Computation, Modelling and Applied Mathematics, Berlin, Germany, Aug. 24-29, 1997.
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51. Impact of the Internet on Education, presented as the **keynote** lecture on the second conference on Information Technology in Higher Education in Palestine at An-Najah University, Palestine, May 21-23, 1998.
52. A Parallel Algorithm for HKdV equations, presented at the second conference on Information Technology in Higher Education in Palestine at An-Najah University, Palestine, May 21-23, 1998.
53. A Parallel Algorithm for Numerical Simulations of KdV-Like Equations, presented as an **invited** 40 minute lecture at the Seventh International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, Aug. 13-17, 1998.
54. Numerical Simulations of KdV-Like Equations, presented as an **invited** 40 minute lecture at the Ninth International Colloquium on Differential Equations, Plovdiv, Bulgaria, Aug. 18-23, 1998.
55. A survey of Inverse Scattering Transform Numerical Schemes, presented at the 1999 IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory, Athens, GA, April 12-15, 1999.
56. Numerical Simulations of Coupled Nonlinear Schrödinger Equation, presented at the 1999 SIAM Annual Meeting, Atlanta, GA, May 12-15, 1999.
57. Numerical Simulations of Compacton Equations, presented at the 1999 SIAM Annual Meeting, Atlanta, GA, May 12-15, 1999.
58. A Parametric Linearized Finite-difference Method for the Solution of the Nonlinear Cubic Schrödinger Equation, presented at the 16<sup>th</sup> IMACS World Congress on Computation and Applied Mathematics, Lusanne, Aug. 12-15, 2000.
59. A Finite Element Solution for the Coupled Schrödinger Equation, presented at the 16<sup>th</sup> IMACS World Congress on Computation and Applied Mathematics, Lusanne, Aug. 12-15, 2000.
60. Split-step Fourier Algorithms for the Complex Modified Korteweg-de Vries Equation – Numerical Simulations, the Second IMACS International Conference on Nonlinear Evolution equations and Wave Phenomena: Computation and Theory, Athens, GA, April 9-12, 2001.
61. Parallel Split-Step Fourier Methods for the Nonlinear Schrödinger Equations, The 2002 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'02: Las Vegas, June 2002).
62. A Parallel Split-Step Method for the CNLS Equation, The International Arabic Conference on Information Technology ACIT'2002, University of Qatar, Doha - Qatar, December 16-19, 2002.
63. Parallel Numerical Simulation of Nonlinear Schrödinger Type Equations, the Third IMACS International Conference on Nonlinear Evolution equations and Wave Phenomena: Computation and Theory, Athens, GA, April 7-10, 2003.
64. Parallel Split-Step Fourier Methods for the CMKdV Equations, The 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'03: Las Vegas, June 2003).
65. A Parallel Algorithm for Numerical Simulation of WDM Optical Fiber Communication Systems, The 2003 Arab Conference on Information Technology (ACIT'03), December 20-23, 2003, Alexandria, Egypt.
66. Parallel Computing: Introduction and Applications, Institute of Bioinformatics (IOB), UGA, November 11, 2004.
67. "Parallel Numerical Methods for Solving Nonlinear Evolution Equations", presented as an invited talk at the "International Conference on Nonlinear Waves, Integrable systems and Applications", June 4 – 8, 2005, University of Colorado at Colorado Springs, Colorado.
68. "Parallel Split-step Fourier Methods for the CMKdV Equation", presented at the 17<sup>th</sup> IMACS World Congress on Computation and Applied Mathematics, Paris, France, July 11-15, 2005.
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70. "GKIN: A graphical User Interface for KINSOLVER", presented at *The International Arabic Conference on Information Technology ACIT'2005*, Al Isra Private University, Amman, Jordan, December 6-8, 2005.
71. "Parallel Numerical Methods for Solving Nonlinear Evolution Equations", presented at *The International Arabic Conference on Information Technology ACIT' 2006*, Yarmouk University, Irbid, Jordan, December 19-21, 2006.
72. "Parallel Numerical Methods for Solving Nonlinear Evolution Equations", presented at The University of Graduate Studies, Amman, Jordan, December 18, 2006.
73. "Web Based Interface for Numerical Simulations of Nonlinear Evolution Equations", presented at the *Fifth IMACS International Conference on Nonlinear Evolution Equations and Wave Phenomena: Computation and Theory*, Athens, GA, April 16-19, 2007.
74. "Parallel Numerical Methods for Solving Nonlinear Evolution Equations that Model Optical Fiber Communication Systems", The 2008 SIAM Conference on Parallel Processing for Scientific Computing, March 12-14, 2008, Atlanta, GA.

## MAJOR PROFESSOR FOR THE FOLLOWING STUDENTS:

1. S.T. Tsai "On Comparison of numerical methods for solving second order differential equations", MAMS, Summer 1983.
2. P.C. Chao "Comparison of running time of different computer systems utilized in solving certain nonlinear evolution equations by several numerical methods", MAMS, Summer 1985.
3. Ling Zhong "A comparison of parallel algorithms for the solution of tridiagonal linear systems of equations", MAMS, Spring 1989.
4. Lingjia Zeng, "Parallel algorithms for solving periodic banded linear systems of equations on a hypercube", MAMS, Summer 1990.
5. Jerjiann Liaw, "An algorithm for solving a 4-diagonal Toeplitz linear system of equations on vector computers", MAMS, Fall 1991.
6. Peiqing Jiang, "Parallel and Vector Algorithms for Solving Toeplitz Systems", MS, Summer 1992.
7. Peng Lu, "Domain Decomposition Methods with Correction in Piecewise Harmonic Function Space", MS, Summer 1995.
8. Nikolla P. Qafoku, "PV96", A mini model for continuous simulation of solute transport and other chemical phenomena in variable charge soils", MAMS, Fall 1998.
9. Boanerg Aleman Meza, "Advances in Numerical Solution of Kinetics Reactions", MSCS, 2001.
10. Xiangming Xu, "Paralel Split-Step Fourier Methods for the Nonlinear Schrödinger Equations", MSCS, 2001.
11. Ruihan Liu, "Numerical and Parallel Algorithms for the CMKdV Equation", MSCS, 2001.
12. Xiaoging Zeng, "Web-Based Simulation of Lake Lanier Water Quality", 2001.
13. Yihai Yu, "Stiff Problems in Numerical Simulation of Biochemical and Gene regulatory Networks", 2004.
14. Ryan Foster, MSCS, May 2007.
15. Shanshan Ding, MAMS, August 2007.
16. Shruti Pai, in progress

## Member of the reading committee for the following Ph.D. students:

1. Shafiuddin Ahmad, Department of Economics, College of Business Administration, UGA, 1988.
2. Munif Qtaishat, School of Education, UGA, 1988.
3. Ping-Cheng Chao, School of Education, UGA, 1990.
4. Randy B. Stepp, College of Business Administration, UGA, 1991.
5. Jon A. Higbie, College of Business Administration, UGA, 1992.
6. Moon Sig Kang, College of Business Administration, UGA, 1993.
7. Lakshmi Sundaram, College of Business Administration, UGA, 1993.
8. Guangming Xing, Computer Science Dept., UGA, 2001
9. Jinhua Guo, Computer Science Dept., UGA, 2002
10. Gita Williams, Computer Science Dept., UGA, 2003
11. Rabia Jafri, Computer Science Dept., UGA, 2004
12. Ashley Hamilton-Taylor, Computer Science Dept., UGA, 2004
13. Junfeng Qu, Computer Science Dept., UGA, 2004
14. Phillipa Rhodes, Computer Science Dept., UGA, 2007
15. Osama Al-Haj Hassan, Computer Science Dept., UGA, 2007.

Member of the advisory committee for 30 M.S. and 20 MAMS students.

## UNIVERSITY SERVICE:

- Appointed to the Graduate Faculty (Provisional) February 1985.
- Appointed to the Graduate Faculty (Regular) October 1988.
- Appointed to the Graduate Faculty of Applied Quantitative Sciences as a member of the Mathematics Subfaculty, January 1989.
- Member of the Franklin College of Arts and Sciences Faculty Senate Fall 1990 – 1993.
- Member of the Academic Standards Committee of the Franklin College of Arts and Sciences 1990 – 1991.
- Member of the Steering Committee of the Graduate Faculty of Applied Quantitative Sciences since July 1, 1991.
- Member of the Senate Ad Hoc Committee on Worker Health and Safety, 1991 – 1992.
- Member of the Awards Committee of the Franklin College of Arts and Sciences 1991 – 1992, 2006 – 2007.

- Member of the Awards Committee of the Franklin College of Arts and Sciences 1992 – 1993, Chair.
- Member of the Committee on Committees of the Franklin College of Arts and Sciences 1992 – 1993.
- Member of the Physical Sciences Committee on Appointment/Reappointment to the Graduate Faculty 1989 – 1993, 2006 – 2009.
- Member of the Franklin College promotion committee, 1994 – 1995 & 1996 – 1997.
- Member of the Area Committee for Physical Sciences on Appointment/Reappointment to the Graduate Faculty, 1996 – 1999.
- Member of the Academic Honesty Panelists, 1997 – 2000.
- Member of the University Council, 1998 – 2001.
- Member of the University Committee on Student Affairs, 1998 – 2001.
- Member of the Physical and Mathematical Science Committee – Faculty Research Grants, 1998 – 2001 (Chair: 1999).
- External member of the Recruitment Committee, Department of Religion, 1999.
- University Review Committee (Physical Sciences) for the 2001 – 2004 promotion and tenure.
- Member of the Graduate Council, 2002 – 2005.
- Member of the Curriculum Committee for the Graduate Council 2002 – 2005, chair 2004 – 2005.
- Chair of the McCay Award Committee, Mathematics Department, UGA, 2005.
- Member of the University Council, 2004 – 2007.
- Member of the Faculty Affairs Committee, University Council, 2006 – 2008.
- Member of Post-Tenure Review Appeals Committee, University Council, 2006 – 2008.
- Member of The Search Committee for the Computer Systems Engineering positions, Faculty of Engineering, 2006 – 2008.
- University Review Committee (Physical Sciences) for the 2007 – 2008 promotion and tenure
- Member of the Faculty of Engineering.
- Member of the Institute of Bioinformatics.

#### **DEPARTMENTAL SERVICE:**

- Graduate Coordinator, January 1989 – December 1994.
- Member of the Graduate Programs Committee (Chair 1989-1994), 1989 – present.
- Member of the Graduate Admissions Committee (Chair 1989-1994), 1989 – present.
- Member of the Promotion/Tenure Faculty Committee, 1988 – present.
- Member of the Curriculum Committee, 1993 – present.
- Member of the Recruiting Committee, 1993 – 95; 1998 – 99 (Chair), 2000 – 2001.
- Member of the Ph.D. in Computer Science proposal committee, 1987 – 1989.
- Member of the Search and Screening Committee, 1988 – 1989.
- Member of the Equipment Committee, 1988 – 1989, 1996 – 2005.
- Member of the Exams Committee, 1996 – 2006.
- Undergraduate Group Advisor, 1997 – present.
- Departmental Mentor for Dr. Khaled Rasheed, 2000 – 2001.

#### **PUBLIC SERVICE:**

- Clarke County Mentor Program, 1993 – 1995.

#### **TEACHING EXPERIENCE:**

I taught the following courses in the Computer Science Department:

Introduction to Information Processing and Microcomputers, Computer programming languages (FORTRAN, Pascal, C, Assembler), Data Structures, Discrete Mathematics, Linear Programming, Automata, Compilers, Graphics, Computer System Architecture, Numerical Methods for Computing I, II, Parallel Processing and Computational Science, Numerical Simulations in Science and Engineering, Advanced Numerical Methods and Scientific Computing, selected topics in computer science such as advanced numerical analysis, numerical methods for parallel computers, and Introduction to Symbolic Computation.