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EDUCATIONAL BACKGROUND

- 1990 **Ph.D.** Computer Science (Software Engineering), Wayne State University
- 1985 **M. S.** Computer Science (Modeling and Simulation), Wayne State University
- 1979 **B. S.** Mathematics, University of Athens, Greece

PROFESSIONAL EXPERIENCE

- **Professor** (tenured), Computer Science and Software Engineering Department, Butler University (2000-present)
- **Founder & Director**, Center for Applied Software Engineering Research (CeASER), Butler University (2000-present)
- **Co-founder & Advisor**, EPICS (Engineering Projects In Community Service), Butler University (2000-present)
- **Professor** (tenured), Computer Science Department, Tennessee Technological University (2000)
- **Chairperson**, Computer Science Department, Tennessee Technological University (1997-2000)
- **Associate Professor** (tenured), Computer Science Department, Tennessee Technological University (1995-2000)
- **Founder & Director**, Computer-Aided Re-Engineering (C.A.R.E.) research laboratory, Computer Science Department, Tennessee Technological University (1990-2000)
- **Assistant Professor**, Tennessee Technological University, Computer Science Department (1990-1995)

PROFESSIONAL MEMBERSHIPS

- Association for Computing Machinery (ACM)
- IEEE Computer Society
- IEEE Technical Council on Software Engineering
- IEEE Technical Committee on Reverse Engineering

INTERNATIONAL CONFERENCE ACTIVITIES

- Steering Committee Member for the IEEE International Conference on Software Maintenance, 2006-2009

- Steering Committee Member for the IEEE International Conference on Program Comprehension, 2006-2009
- Financial Chair at the IEEE International Conference on Software Maintenance, Philadelphia, Pennsylvania, USA September 24-27th 2006
- Program co-chair at the IEEE International Conference on Program Comprehension, Athens, Greece, June 9-12th 2006
- General Chair for the IEEE International Conference on Software Maintenance, 2004, Chicago Illinois, USA.
- Steering Committee Member for the IEEE International Conference on Software Maintenance, 2003-2006
- Steering Committee Member for the International IEEE Workshop on Program Comprehension, 1997-2003.
- Program Committee Member for the IEEE International Workshop on Source Code Analysis and Manipulation, 2003.
- Program Committee Member for the International IEEE Workshop on Program Comprehension, 2003.
- Program Committee Member for the International Workshop on Web Site Evolution, 2003.
- Program Committee Member for the IEEE International Conference on Software Maintenance, 2003.
- Technical Committee Member at the International IEEE Conference on Software Maintenance in Italy for 2001.
- Program Committee Member at the International IEEE Working Conference on Reverse Engineering in 1999.
- Media Coordinator at the International IEEE Workshop on Program Comprehension in 1999.
- Program Committee Member for the IEEE International Conference on Software Technology and Engineering Practice in 1999.
- Program Committee Member at the International IEEE Workshop on Program Comprehension in 1999.
- General Co-Chair for the International IEEE Workshop on Program Comprehension in 1998.
- Session Chair at the International IEEE Working Conference on Reverse engineering in 1998.
- Program Committee Member at the International IEEE Workshop on Program Comprehension in 1998.
- Panel Member for the 1998 ASCE Conference at Vanderbilt University, School of Engineering in 1998.
- Committee Member at the 5th International IEEE Workshop on Program Comprehension in 1997.
- Program Committee Member at the International IEEE Workshop on Program Comprehension in 1996.
- Program Committee member for the 8th IEEE International Conference on Tools with Artificial Intelligence in 1996.

SELECTED PRESENTATIONS AND INVITED TALKS

- “*Jump-starting A Software Engineering Measurement Initiative*” Chicago Quality Assurance Association (CQAA), Chicago, Illinois, USA, September 25th 2006.
- “*Crafting A Measurement Framework Using A Goal-Question-Metric Approach*” Indiana Quality Assurance Association (IQAA), Indianapolis, Indiana, USA, July 20th 2006.
- “*The EPICS Program at Butler University*” Banquet keynote speaker for the Midwest Conference of the Consortium for Computing in Small Colleges (CCSC) held in Marion, Indiana on September 27 and 28, 2002.
- “*How Are Web Sites Maintained? How Do They Evolve?*” Indiana SERC (Software Engineering Research Center) Showcase, December 6-7, 2001, Ball State University, Muncie, Indiana, USA.
- *Maintaining Multi-language Software*, Indiana SERC Showcase, IUPUI, Indianapolis, Indiana, USA, June 28, 2001.
- *Maintenance Support for Multi-language Multi-paradigm Software*, department of Computer and Information Sciences, Indiana University Purdue University at Indianapolis (IUPUI), Indiana, USA, April 13, 2001.
- “*The EPICS Program*”, Service Learning workshop at Butler University, Indianapolis, Indiana, USA, October 17, 2002.
- “*Software Re-engineering Tools*” SERC (Software Engineering Research Center) Workshop at IUPUI, Indiana, USA, on November 6-7, 2001.
- *Reengineering Tools for Multi-language Multi-paradigm Software*, International Research Center for Computer Sciences, Schloss Dagstuhl, Wadern, Germany, January 2001.
- *Challenges in Software Re-use and Re-engineering*, USASSDC, Huntsville, Alabama, USA, January 1997.
- *Tool Support for Program Comprehension and Re-engineering*, Technical University of Munich, Computer Science Department, Munich, Germany, March 1997.
- *Experiments Using the CARE Family of Tools*, Georgia Institute of Technology, College of Computing, Atlanta, Georgia, USA, October 1994.
- *Layout Heuristics for Graphical Representations of Programs*, Vanderbilt University, Computer Science Department, Nashville, Tennessee, USA, November 1991.

RESEARCH PUBLICATIONS AND EDITORIALS

- Proceedings of the IASTED International Conference on Software Engineering and Applications, “*A Metrics Tool for Multi-language Software*”, (P. Linos, W. Lucas, S. Myers and E. Maier), November 19-21, 2007, Cambridge, Massachusetts, USA.
- Proceedings of the 22nd International IEEE Conference on Software Maintenance, (P. Linos, with K. Kontogiannis and K. Wong) “*Comprehension and Maintenance of Large Scale Multi-Language Software Applications: Open Issues and Challenges*”, September 2006, Philadelphia, Pennsylvania, USA.

- Proceedings of the 18th Undergraduate Research Conference, Butler University, Indianapolis, Indiana, USA, (P. Linos with G. McCullough and E. Maier) “*A Metrics Tool for Multi-language .NET Software Applications*”, April 21st 2006.
- IEEE Transactions on Software Engineering, *Guest Editorial: Special Issue on Software Maintenance and Evolution* (with Mark Harman and Bogdan Korel), vol. 31, no. 10, October 2005.
- Proceedings of the Frontiers of Education Conference, Indianapolis, Indiana, USA (J. Sorenson and P. Linos) *EPICS: A Service Learning Program at Butler University*, October 19-22, 2005.
- Proceedings of the 11th IEEE International Workshop on Program Comprehension, (Linus, P., Chen, Z, Berrier, S and O'Rourke, B.,) *A Tool for Understanding Multi-language Program Dependencies*, pp. 64-72, May 2003.
- SIGCSE Bulletin Inroads, ITiCSE Proceedings, *A Service-Learning Program For Computer Science And Software Engineering* (Linus, P., Herman, S., and Lally, J.), Vol. 35, Num. 3, September 2003, pp. 30-34.
- Proceedings of the 19th International IEEE Conference on Software Maintenance, (P. Linos and Chris Bailey-Kellog) “*Service Learning in Software Engineering and Maintenance*”, September 2003, p. 336.
- Linos, P., Osasanya E., and Natarayan H., *Maintenance Support for Web Sites*. Proceedings of the Workshop on Evolution of Web Sites. In IEEE Conference on Software Maintenance, Florence Italy, Nov. 6-10 2001.
- C. Wiebe, S. Molterer, P. Linos, B. Paech, C. Salzman, *Maintainable Systems using a Business Object Approach*, Annals of Software Engineering Journal, March 2000.
- P. Linos and V. Courtois, *A Tool for Maintaining Hybrid C++ Programs*, Journal of Software Maintenance, Vol. 8, December 1996, pp. 389-419.
- Linos, P., Aubet, L. Dumas, Y. Helleboid, P. Lejeune, and P. Tulula, *Visualizing Program Dependencies*, Software-Practice and Experience Journal, 1994, Vol. 24(4), 387-403.
- Rajlich, V., Damaskinos, N., Linos, P., Khorshid, W., *VIFOR : A Tool for Software Maintenance*, Software-Practice and Experience, Vol. 20(1), 67-77, 1990.
- Linos, P., Schach, S., *Comprehending Multilanguage Multiparadigmatic Software*, International IEEE Conference on Software Maintenance, Oxford, England, September 1999.
- Linos, P., Osasanya E., and Karanukaran V., *Improving the Visibility of Graphical Program Displays: An Experimental Study*. Proceedings of the Seventh International IEEE Workshop on Program Comprehension, May 99, Software Engineering Institute, Carnegie Mellon University, Pittsburgh, PA, pp. 12-19.
- Linos, P., *PolyCARE: A Tool for Re-engineering Multi-language Program Integrations*, First IEEE International Conference on Engineering Complex Computer Systems, Nov. 6-11, 1995, Ft. Lauderdale, Florida, USA, pp.338-341.
- Linos, P., Courtois, V., *A Tool for Understanding Object-Oriented Program Dependencies*, Proceedings of the 3rd International IEEE Workshop on Program Comprehension, Washington DC., November 14-16, 1994.

- Linos, P., Aubet, L. Dumas, Y. Helleboid, P. Lejeune, and P. Tulula, *CARE: An Environment for Understanding and Re-engineering C Programs*, Proceedings of International IEEE Conference on Software Maintenance, Montreal, Quebec, Canada, September 27-30, 1993, pp. 130-139.
- Linos, P., Aubet, L. Dumas, Y. Helleboid, P. Lejeune, and P. Tulula, *Facilitating the Comprehension of C Programs: An Experimental Study*, Proceedings of the 2nd International IEEE Workshop on Program Comprehension, Capri, Italy, July 8-9, 1993, pp. 55-63.
- Rajlich, V., Damaskinos, N., Khorshid, W., Linos, P., Silva, J., *An Environment for Maintaining C Programs*, Proceedings of the Second International IEEE Workshop on Computer-Aided Software Engineering (CASE), Cambridge, Mass., July 12-15, 1988.
- Rajlich, V., Damaskinos, N., Khorshid, W., Linos, P., Silva, J., *Visual Support for Programming-in-the-large*, Proceedings of IEEE Conference on Software Maintenance, Phoenix, Arizona, October 24-27, 1988.
- Linos, P., and M. Breen, *Improving Bipartite Graphs Using Multi-Strategy Simulated Annealing*. Proceedings of the ACM Southeast Computer Science Conference, April 1999, Mobile, Alabama.
- Linos, P., Aubet, L. Dumas, Y. Helleboid, P. Lejeune, and P. Tulula, *A Tool for Maintaining C Programs*, 5th ACM SIGSOFT Symposium on Software Development Environments, Tyson Corner, Virginia, Dec. 9-11, 1992.
- Linos, P., *ToolCASE : A Repository of CASE Tools*, Software Engineering Notes, ACM SIGSOFT, April 1992.
- Linos, P., *The Design of a Relational Database for CASE Tools*, UPCAEDM International Conference, Cookeville, Tennessee, August 16-19, 1992, pp. 205-208.
- Linos, P., Rajlich, V., Korel, P., *Layout Heuristics for Graphical Representations of Programs*, International IEEE Conference on Man, Machine and Cybernetics, Charlottesville, Virginia, October 13-16, 1991, pp. 1127-1132.
- Linos, P., *Graphical Support for Visual Environments*, Proceedings of IAMM International Conference, Detroit, Michigan, April 11-14, 1991, pp. 642-647.
- Linos, P., *Automatic Layout for Graphical Representations of Programs*, Proceedings of ACM 16th Annual Computer Conference, Atlanta, Georgia, February 24-29, 1988.

CONFERENCE PANELS

- “25 Years of Software Maintenance”, IEEE International Conference on Software Maintenance, Edmonton, Alberta, Canada, September 22-25th 2009.
- “TDD: Test Driven Development” at the International IEEE Conference on Software Maintenance, Chicago, Illinois, USA, 19-22 Sept 2004.
- “Service Learning in Software Engineering and Maintenance” at the International IEEE Conference on Software Maintenance, Sept. 2003 in Amsterdam, Holland.
- “Service Learning In Computer Science and Engineering”. at the 33rd SIGCSE Technical Symposium on Computer Science Education, Feb. 27 - March 3rd 2002 in Cincinnati, Ohio, USA.

- “*How Do I Start A New EPICS Program?*” Second annual National EPICS Conference Purdue University, West Lafayette, May 29-30th 2002.
- “*Service Learning in Engineering*” at the FIA (Frontiers In Education) Conference during November 6-9, 2002, Boston.

CONFERENCE TOOL DEMOS & EXHIBITIONS

- SERC (Software Engineering Research Center) Show Cases, 2001-04
- International IEEE Conference on Software Engineering, 1994-95
- 5th ACM Conference on Software Development Environments, 1993
- International IEEE Conference on Software Maintenance, 1993
- International IEEE Workshop on Program Comprehension, 1993

GRANTS FUNDED

- Butler-HAC research grant “*A Toolset for Analyzing Multi-Language Legacy Software Applications*”, 2006-2007
- SENCER NSF Post-Institute Implementation Sub-Award (with J. Kirsch, et al), 2006
- Butler-HAC research grant “*Measuring the Complexity of Multi-language Software in the .NET Environment*”, 2004
- NSF Software Engineering Curriculum Workshop, Rochester Institute of Technology (RIT), “*Crafting a New Software Engineering Curriculum at Butler University*” 2004 (travel funds)
- NSF Workshop on Teaching Software Testing Florida Institute of Technology, “*A Special Topics Course on Software Testing and Quality Assurance at Butler University*” February 2004 (travel funds)
- Sallie Mae foundation grant “*A Community Service Learning Program at Butler University*”, 2003
- Butler-HAC research grant “*A Virtual Reality Environment for Visualizing Multi-language Software*”, 2003
- NSF, *Scholarships for Computer Science and Software Engineering* (with P. Henderson, J. Sorenson and Z. Chen, Butler University), CSEMS-CS, ENG & MATH Scholarships, 2001-2005
- *Tool Support for Maintaining Multi-language Software*, HAC Faculty Research Program, Butler University, 2001-2002.
- Research Office, TTU, *Graphical User Interfaces for Software Engineering Tools*, 1999-2000.
- Research Office, TTU, *A Software Tool for the Year 2000 Problem*, 1998-99.
- *A Graph Dependency Toolkit*, 1996-97, Naval Research Laboratory, U.S. Navy, Department of Defense.
- Research Office, TTU, *A Tool for the Maintenance of Multi-language Legacy Systems*, 1996-97.
- Research Office, TTU, *Visualizing Program Dependencies*, 1994-95.
- Research Office, TTU, *Graphical Support for CASE Tools*, 1993-94.
- Research Office, TTU, *A Software Re-engineering Toolkit*, 1992-93.
- Research Office, TTU, *Layout Methods for CASE Diagrams*, 1991-92.

PRACTICAL AND CONSULTING EXPERIENCE

- Bucher & Christian, IT Consulting, Indianapolis, Indiana
- Butler Business Accelerator (BBA) Consulting, Indianapolis, Indiana
- Kaman Sciences Corporation, Alexandria, VA
- Naval Research Lab., Washington, D.C.
- Sallie Mae, Fishers, Indiana
- Kaman Sciences Corporation, Alexandria, VA
- Naval Research Lab., Washington, D.C.
- Metro Water Company, Athens, Greece
- Academic institutions that offer or intend to offer Software Engineering programs

COMMITTEE SERVICE

Butler University

- Information Technology Council, (2006-present)
- Faculty Search (2000-present)
- SE Curriculum Development (2000-present)
- Library Liaison (2000-present)
- Invited Speaker Seminars (2000-present)
- Coordinator of Software Engineering Internships (2001-present)

Tennessee Technological University

- Executive Council, 1997-2000
- CSSE Curriculum Committee, 1990-2000
- Equipment Committee, 1990-2000
- Faculty Search Committee, 1990-2000
- Library Committee, 1990-1997
- Information Technology Committee, 1996-1998
- Task Force on Multiculturalism, 1995-97
- International Affairs Committee, 1995-96
- Technology Transfer Committee, 1995-96

COURSES TAUGHT (Computer Science and Software Engineering)

Butler University

- CS 142: Introduction to Programming and Computer Science (C++, UNIX)
- CS 245: Business Programming in Visual Basic (VB.NET)
- CS 283-483: EPICS (Engineering Projects In Community Service)
- CS 321: Computer Organization & Architecture
- SE 361: Introduction to Software Engineering (Visual Studio.NET, VISIO)
- SE 411: Software Engineering Internship
- CS 433: Database Management Systems (ORACLE, SQL)
- CS 441: Programming Languages and Paradigms (Prolog, Lisp, Smalltalk)
- SE 461: Object-Oriented Software Engineering (UML, USDP)
- SE 462: Software Quality Assurance and Testing (Eclipse, JUnit)
- SE 473: Special Topics on Software Maintenance and Re-engineering
- CS 473: Special Topics on Web Programming Techniques (Perl, php, mySQL)

- Short Software Engineering seminars for local IT professionals

Tennessee Technological University

- CSC 110: Introduction to Computing (MS Office, Internet, WWW)
- CSC 201: Introduction to Computer Science (ANSI C)
- CSC 202: Data Structures, Algorithms and Programming Techniques (ANSI C)
- CSC 340: Object-Oriented Design and Programming (ANSI C++)
- CSC 370: Classical Software Engineering (STP/IDE, Teamwork/CADRE, EasyCASE/Evergreen CASE tools)
- CSC 401/501: Programming Languages (LISP, PROLOG, JAVA, SMALLTALK)
- CSC 430/530: Data Base Management Systems (ORACLE/CASE, SQL)
- CSC 470/570: Object-Oriented Software Engineering (OOSE/Objectory, UML and ROSE/RATIONAL, Visual CASE 6.0)
- CSC 480/580: Directed Studies on Software Maintenance
- CSC 490/590: Special Topics on CASE Tools and Technology
- CSC 670: Advanced Topics in Software Engineering (Software Reuse, Reengineering, Reverse Engineering, Software Maintenance, Program Comprehension, Software Evolution, Software Renovation & Modernization)

Wayne State University

- CSC 102: Introduction to Computer Science
- CSC 441: Introduction to Operating Systems
- CSC 411/511: Software Engineering (StP IDE CASE tool).

STUDENT ADVISING & SUPERVISING

Butler University

- Academic advisor for various CSSE undergraduate students
- Research advisor for various CSSE undergraduate students who conduct funded research with me
- International advisor for various exchange students that complete their senior thesis with me and/or their internship requirements
- BSI (Butler Summer Institute) advisor for CSSE undergraduate students to complete their research projects
- Served as external advisor and committee member for international Ph.D. students, Kamran Satripi, and Ladan Tahvildari from the University of Waterloo, Canada, 2003-04.

Tennessee Technological University

Academic Advising

- Advised various undergraduate CS students

Direct Supervision & Committee Membership for Graduate Students

- R. Vinod, M. Sc. (thesis completed 2000)

- H. Anand, M. Sc. (thesis completed 2000)
- K. Bashri, M.Sc. (thesis completed 1999)
- L. Shikadri, M. Sc. (thesis completed 1999)
- Hariharan Natarajan, M. Sc. (thesis completed 1999)
- Naveenkumar Kalla, M. Sc. (thesis completed 1999)
- HongHong Zhu, M. Sc. (thesis completed 1998)
- Vijay Karunakaran, M.Sc. (thesis completed 1997)
- Eric Trees, M.Sc. (thesis completed 1996)
- Greg Morton, M.Sc. (thesis completed 1996)
- Chakravarthy Kopperapu, M.Sc. (thesis completed 1995)
- Jorge Destephen Soler, Ph.D. (dissertation completed 1994)
- Manhong Wen, Ph.D. (dissertation completed 1994)

International & Exchange Students

The following international students took courses with me, completed a research project and prepared a final thesis under my supervision.

- Mykola Komarevskyy, Technical University of Ukraine
- Aubet, Philip, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Baviere, Francois, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Casanova, Renault, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Courtois, Vincent, Hautes Etudes Industrielles (HEI), France
- Dubois, Florence, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Dumas, Laurent, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Heleboid, Jan, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Lejeune, Patricia, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Martinat, Pascal, Hautes Etudes Industrielles (HEI), France
- Ruckebusch, Denis, Hautes Etudes Industrielles (HEI), France
- Thiebaut, Bruno, Institut Supérieur D'Electronique Du Nord (ISEN), France
- Tulula, Philip, Institut Supérieur D'Electronique Du Nord (ISEN), France

REVIEWING AND EDITORIAL SERVICES

Journals

- IEEE Software
- IEEE Computer
- IEEE Transactions on Software Engineering
- Journal of Software Maintenance: Research and Practice
- Software Practice and Experience Journal
- Applied Mathematics and Computer Science European Journal
- International Journal on Artificial Intelligence Tools
- Information Processing Letters
- Internet Computing International Journal
- Annals of Software Engineering Journal
- CIT Journal of Computing and Information Technology

Conferences

- IEEE ICSM, International Conference on Software Maintenance
- IEEE ICPC, International Conference on Program Comprehension

- HICSS, Hawaii International Conference on System Sciences
- IEEE SCAM, International Workshop on Source Code Analysis and Manipulation.
- SAC, ACM Symposium on Applied Computing
- IEEE WCRC, Working Conference on Reverse Engineering.
- IEEE IWPC, IEEE International Workshop on Program Comprehension.
- SAC ACM Symposium on Applied Computing.
- IEEE WSE International Workshop on Web Site Evolution.
- IEEE/ACM International Conference on Software Technology and Engineering Practice (STEP).
- International Conference on Software and Data Technologies
- IEEE/ACM International Conference on Artificial Intelligence
- Other conferences: CAST, CSEET, ICEIS, ICSOFT, ITICSE

Research Centers

- European EPSRC (Engineering and Physical Sciences Research Council)
- Natural Sciences and Engineering Research Council of Canada (SERC)

PROFESSIONAL DEVELOPMENT

- On sabbatical during the Spring 2007 semester (involved in a IT consulting industry project for the Butler Business Accelerator program)
- Faculty Pedagogy Seminars at Butler University, 2004 -2005.
- *“Effective Teaching Using Web Technologies”* tutorial at The Teaching Professor Conference, Philadelphia, Pennsylvania, May 2004.
- *“Capability Maturity Models: Why Should We Care?”* IQAA (Indianapolis Quality Assurance Association), November 18th 2004, Indianapolis.
- Technology Summit VII, September 29th 2004, Indianapolis.
- TechPoint HiTech Tuesday IT workshops and seminars, Indianapolis.
- *“The Status of IT in Central Indiana”*, ConnectTech Annual Workshop, IUPUI, January 2003.
- *“Mining Components for A Software Architecture and a Product Line: The Options Analysis and Re-engineering (OAR) Method”* by the Software Engineering Institute (SEI) at the International IEEE Conference on Software Maintenance, Sept. 2003 in Amsterdam, Holland.
- *“Applying Software Engineering Principles in Course Development”*, tutorial at FIE2003, Boston 2002.
- *“Using Automated Transformation Systems for Software Maintenance and Reengineering”* tutorial by Ira Baxter during the International IEEE Conference on Software Maintenance, 2001 in Florence, Italy.
- *“Managing Software Maintenance”* tutorial by Ned Chapin at the International IEEE Conference on Software Maintenance, 2001 in Florence, Italy.
- Information Technology Annual Workshop at Purdue University, October 24, 2001.
- Completed an intensive training course on *Object Oriented Software Analysis and Design using UML*, by RATIONAL Corporation, Indianapolis, January 2001.
- Completed a hands-on training course on *Rational Rose Suite*, by RATIONAL Corporation, Indianapolis, January 2001.

- Participated at the *Pacific Crest Teaching Institute* organized by the College of Engineering at TTU during spring 1998.