

Haesun Lee

Ph: (432) 552-2251

Fax: (432) 552-3230

E-mail: lee_h@utpb.edu

EDUCATION

12/1997 Ph.D. in Computer Science, Illinois Institute of Technology, Chicago, Illinois

05/1994 M.S. in Computer Science, Illinois Institute of Technology, Chicago, Illinois

TEACHING EXPERIENCE

09/2007 – Present Associate Professor of Mathematics and Computer Science Department,
The University of Texas of the Permian Basin, Odessa, Texas

09/2001 – 08/2007 Assistant Professor of Department of Science and Mathematics, The
University of Texas of the Permian Basin, Odessa, Texas

08/2000 – 08/2001 Assistant Professor of Computer Information Systems, Triton College,
River Grove, Illinois

10/1997 – 01/1999 Full Time Instructor of Computer Science Department, Northeastern
Illinois University, Chicago, Illinois

SELECTED REFEREED PUBLICATIONS

Journal Publications

- *Measuring testing as a distributed component of the software life cycle*, M. Burgin, N. Debnath, and H. K. Lee, Journal of Computational Methods in Science and Engineering (JCMSE) Volume 9, Numbers 1, 2, Supplement 2, pp 211- 223, 2009
- *Overhead Elimination Mechanisms in Real-time Systems*, Ilhyun Lee, Haesun K. Lee, and Narayan Debnath, Journal of Computational Methods in Science and Engineering, Volume 6, Numbers 5, 6, Supplement 2, pp 399-411, 2006

Conference Publications

- *Establishment of System Security for UTPB-CLTS*, Dusty Piper, Ilhyun Lee, and Haesun Lee, Proceedings of the 20th Midwest Artificial Intelligence and Cognitive Science Conference (MAICS '09), pp 203 – 210, April 18 – 19, 2009, Fort Wayne, Indiana, USA
- *Design of Lab Assistant Module for UTPB-CLTS*, Cheri Whalen, Ilhyun Lee, and Haesun Lee, Proceedings of the 24th ISCA International Conference on Computers and Their Applications (CATA '09), pp 174 – 178, April 8 – 10, 2009, New Orleans, Louisiana, USA

- *The UTPB Computer Lab Training System*, Ilhyun Lee, and Haesun Lee, Proceedings of the 21st ISCA (International Society for Computers and their Application) International Conference on Computers Applications in Industry and Engineering (CAINE '08), pp 239 – 243, November 12 – 14, 2008, Honolulu, Hawaii, USA
- *Implementation of a Pairwise Sequence Alignment on a Distributed Java Environment*, Haklin Kimm, Glenn E. Miller, and Haesun K. Lee, Proceedings of the 23rd ISCA International Conference on Computers and Their Applications (CATA '08), pp 33–38, April 9-11, 2008, Cancun, Mexico
- *An Automated Test Generation and Execution System*, Narayan Debnath, Clay Smith, Tom Noll, Haesun K. Lee, Ilhyun Lee, and Mark Burgin, Proceedings of the 20th ISCA (International Society for Computers and their Application) International Conference on Computers Applications in Industry and Engineering (CAINE '07), pp 162–167, November 7 - 9, 2007, San Francisco, California, USA
- *Correctness in the software life cycle*, Mark Burgin, Narayan C. Debnath, and Haesun K. Lee, Proceedings of the 16th ISCA International Conference on Software Engineering and Data Engineering (SEDE '07), pp 26-31, July 9 - 11, 2007, Las Vegas, Nevada, USA
- *Design and Description of a Tool towards a Software Engineering Experiment*, Narayan Debnath, Nripendra Rai, Haesun K. Lee, and Ilhyun Lee, Proceedings of the 19th ISCA International Conference on Computers Applications in Industry and Engineering (CAINE '06), pp 283-288, November 13- 15, 2006, Las Vegas, Nevada, USA
- *The UTPB Computer Science Research Lab: Running on Student Power*, Cherry Owen, Doug Hale, Ilhyun Lee, and Haesun Lee, Proceedings of the ACM SIGUCCS Fall 2006 Conference, pp. 309-315, November 5-8, 2006, Edmonton, Alberta, Canada
- *Reusing OE-Scheduler in Aperiodic Environments*, Haesun K. Lee, and Ilhyun Lee, Proceedings of the 6th IEEE International Conference on Electro/Information Technology (IEEE EIT '06), pp 256-261, May 7-10, 2006, East Lansing, Michigan, USA.
- *Object-Oriented Design and Implementation of the OE-Scheduler in Real-time Environments*, Ilhyun Lee, Cherry Owen, and Haesun K. Lee, Proceedings of the 21st ISCA International Conference on Computers and Their Applications (CATA '06), pp 254-258, March 23-25, 2006, Seattle, Washington, USA.
- *Applying a Multi-level Security Mechanism to a Network Address Translation Scheduler*, McDonald, Haklin Kimm, Haesun K. Lee, and Ilhyun Lee, Proceedings of the 21st ISCA International Conference on Computers and Their Applications (CATA '06), pp. 350-355, March 23-25, 2006, Seattle, Washington, USA.
- *A Unified Hardware/Software Approach for Reducing Context Switching Time with Multiple Tasks*, Haklin Kimm, Haesun K. Lee, and Ilhyun Lee, Proceedings of the 18th ISCA International Conference on Parallel and Distributed Computing Systems (PDCS '05), pp. 212-217, September 12-14, 2005, Las Vegas, Nevada, USA.
- *A Testing and Analysis Tool for Certain 3-variable Functions*, Narayan C. Debnath, Haesun K. Lee, Mark Burgin, and Eric Thiemann, Proceedings of the IEEE International Conference on Information Reuse and Integration (IEEE IRI '05), pp. 560-565, August 15 - 17, 2005, Las Vegas, Nevada, USA.

- *Design and Implementation of a Reusable Software Tool with Application*, Narayan Debnath, Ilhyun Lee, Haesun Lee, Sergiu Dascalu, John Ho, and Mary Yip, Proceedings of the IEEE International Conference on Information Reuse and Integration (IEEE IRI '05), pp. 579-584, August 15 - 17, 2005, Las Vegas, Nevada, USA.
- *Algorithm for Reducing the Complexity of Switching Time in Real-Time Multitask Environments*, Haesun K. Lee, Ilhyun Lee, and Haklin Kimm, Proceedings of the ISCA 20th International Conference on Computers and Their Applications (CATA '05), pp. 429-434, March 16-18, 2005, New Orleans, Louisiana, USA.
- *Finding Minimal Overheads in Real-time Systems*, Ilhyun Lee, Haesun K. Lee, and Narayan Debnath, Proceedings of the ISCA 3rd International Conference on Computer Science, Software Engineering, Information Technology, e-Business and Applications (CSITeA '04), pp. 1-4, December 27 - 29, 2004, Cairo, Egypt.
- *Software Technological Roles, Usability, and Reusability*, M. Burgin, H. K. Lee, and N. Debnath, Proceedings of the IEEE International Conference on Information Reuse and Integration (IEEE IRI '04), pp.210 - 214 , November 8 - 10, 2004, Las Vegas, Nevada, USA.
- *Object Oriented Mixed Scheduling Algorithm in Real Time Systems*, Ilhyun Lee, Haesun K. Lee, and Narayan C. Debnath, Proceedings of the ISCA 17th International Conference on Parallel and Distributed Computing Systems (PDCS '04), pp. 416 - 420, September 15-17, 2004, San Francisco, California, USA.
- *Nearly Dynamic Task Model Scheduling with Aperiodic Tasks*, Haesun K. Lee, and Ilhyun Lee, Proceedings of the ISCA 19th International Conference on Computers and Their Applications (CATA '04), pp. 313 - 316, March 18-20, 2004, Seattle, Washington, USA.
- *Object-Oriented Approach of Bounded Predictable (BP) Task Scheduler*, Haesun K. Lee, Ilhyun Lee, and Narayan C. Debnath, Proceedings of the ISCA 16th International Conference on Computers Applications in Industry and Engineering (CAINE '03), pp. 306 - 309, November 11- 13, 2003, Las Vegas, Nevada, USA.
- *Object Design and Development of Testing Tools*, Narayan Debnath, EricThiemann, Ilhyun Lee, Haesun Lee, and Waleed Smari, Proceedings of the ISCA 12th International Conference on Intelligent and Adaptive Systems and Software Engineering (IASSE '03), pp. 261-265, July 9 - 11, 2003, San Francisco, California, USA.
- *Scheduling Bounded predictable (BP) and Soft Aperiodic Tasks*, Ilhyun Lee, Haesun K. Lee, and Narayan C. Debnath, Proceedings of the ISCA 18th International Conference on Computers and Their Applications (CATA '03), pp. 244 - 247, March 26-28, 2003, Honolulu, Hawaii, USA.
- *Scheduling Algorithm for Minimizing Context Switches of Periodic and Bounded Predictable Tasks*, Haesun K. Lee, Ilhyun Lee, and Narayan C. Debnath, Proceedings of the ISCA 15th International Conference on Computers Applications in Industry and Engineering (CAINE '02), pp.134 -137, November 7-9, 2002, San Diego, California, USA.
- *Java Implementation of Bounded Predictable (BP) Task Scheduler*, Ilhyun Lee and Haesun K. Lee, 18th International Conference on Advanced Science and Technology (ICAST '02), pp. 74 -77, August 17, 2002, Chicago, Illinois, USA.

- *Metrics Comparison for Java Programs Using a Software Tool*, Narayan C. Debnath, Haesun K. Lee, Roger Y. Lee, and Waleed W. Smari, Proceedings of the ISCA 17th International Conference on Computers and Their Applications (CATA '02), pp. 265-268, April 4-6, 2002, San Francisco, California, USA.
- *A Test Case Generator using Boundary Value Analysis*, Narayan C. Debnath, Haesun K. Lee, Maria A. Barrera, and Hamid A. Abachi, Proceedings of the ISCA 14th International Conference on Computers Applications in Industry and Engineering (CAINE '01), pp. 93-98, November 27-29, 2001, Las Vegas, Nevada, USA.
- *Mixed Scheduling of Periodic and Soft Aperiodic Tasks with Reduced Context Switches*, Haesun Kang Lee, Ilhyun Lee, and Martha Evens, Proceedings of the ISCA (International Society for Computers and their Applications) 16th International Conference on Computers and Their Applications (CATA '01), pp. 171-174, March 28-30, 2001, Seattle, Washington, USA.
- *Scheduling Periodic Tasks with Reduced Context Switches*, Haesun Kang Lee, Ilhyun Lee, and Martha Evens, Proceedings of the ACIS (Association for Computer and Information Science) 1st International Conference on Software Engineering Applied to Networking & parallel/Distributed Computing (SNPD '00), pp. 209-215, May 18-21, 2000, Champagne-Ardenne, France.
- *Scheduling Bounded Predictable (BP) Tasks*, Ilhyun Lee, Haesun Kang Lee, and James Kenevan, Proceedings of the ACIS 1st International Conference on Software Engineering Applied to Networking & parallel/Distributed Computing (SNPD '00), pp. 458-463, May 18-21, 2000, Champagne-Ardenne, France.

SELECTED PROFESSIONAL ACTIVITIES

Program Committee for International Conference on Computer Science:

- 2008 - 2009 International Program Committee of the Computer Science Track of ICSTC 2009 (International Computer Science and Technology Conference) in San Diego
- 2008 - 2009 International Program Committee of the 24th ISCA (International Society for Computers and their Application) International Conference on Computers and Their Applications (CATA '09)
- 2007 - 2008 International Program Committee of the 23rd ISCA (International Society for Computers and their Application) International Conference on Computers and Their Applications (CATA '08)
- 2005 - 2006 International Program Committee of the 19th ISCA International Conference on Computers Applications in Industry and Engineering (CAINE '06)
- 2005 - 2006 International Program Committee of the 21st ISCA (International Society for Computers and their Application) International Conference on Computers and Their Applications (CATA '06)

- 2004 - 2005 International Program Committee of the 18th ISCA International Conference on Computers Applications in Industry and Engineering (CAINE '05)
- 2003 - 2004 International Program Committee of the 3rd ISCA International Conference on Computers Science, Software Engineering, Information Technology, e-Business, and Applications (CSITeA '04)
- 2002 - 2003 International Program Committee of the 16th ISCA International Conference on Computers Applications in Industry and Engineering (CAINE '03)
- 2001 - 2002 International Program Committee of the 15th ISCA International Conference on Computers Applications in Industry and Engineering (CAINE '02)
- 2001 - 2002 International Program Committee of the 1st ISCA International Conference on Computers Science, Software Engineering, Information Technology, e-Business, and Applications (CSITeA '02)

Reviewer Activities:

- 2008 - 2009 Reviewer of journal paper entitled “Web Services Specified through Graphs Transformation Rules to Apply Communication” for Journal of Information Technology and Management.
- 2008 - 2009 Reviewer of papers for the 7th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA '09)
- 2008 - 2009 Reviewer of papers for the 5th International Conference on Information Technology – New Generations (ITNG '09)
- 2007 - 2008 Reviewer of papers for the 8th IEEE International Conference on Electro/Information Technology (IEEE EIT '08)
- 2006 - 2007 Reviewer of papers for the 7th IEEE International Symposium on Signal Processing and Information Technology (IEEE ISSPI '07)
- 2006 - 2007 Reviewer of papers for the 7th IEEE International Conference on Electro/Information Technology (IEEE EIT '07)
- 2006 - 2007 Reviewer of papers for the 5th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA '07)
- 2005 - 2006 Reviewer of papers for the 6th IEEE International Conference on Electro/Information Technology (IEEE EIT '06)
- 2005 - 2006 Reviewer of papers for the 4th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA '06)
- 2004 - 2005 Reviewer of papers for the 5th IEEE Symposium on Signal Processing and Information Technology (ISSPIT '05)
- 2003 - 2004 Reviewer of papers for the 4th IEEE Symposium on Signal Processing and Information Technology (ISSPIT '04)

Other Professional Activities:

- 2008 – present Chair of the College of Arts and Sciences Curriculum Committee
- 2006 – present Computer Club Faculty Advisor at UTPB
- 2006 – present Member of the Computer Technology Building Committee at UTPB
- 2005 – present Member of the Parking and Traffic Committee at UTPB
- 2002 – 2004 Member of the Academic Affairs Committee at UTPB
- 2001 – 2005 Member of the Intellectual Property Committee at UTPB
- 2002 – Present Judge for Senior Division at the Permian Basin Regional Science Fair
- 1/2009 Member of Search Committee for Sociology at UTPB
- 6/2006 Member of Search Committee for Computer Science at UTPB
- 4/2004 Member of Search Committee for Mathematics at UTPB
- 8/2002 Member of Search Committee for Computer Science at UTPB
- 1995 – Present Member of the Korean-American Scientists and Engineers Association
- IEEE Communications Society
- ACM (Association for Computing Machinery) Special Interest Group on Communications
- ACIS (Association for Computer and Information Science) Communications Society
- ISCA (International Society for Computers and their Applications) Communications Society

AWARDS AND GRANTS

- 2007 Who's Who Among America's Teachers Award
- 2006 Chancellor's Council Outstanding Teaching Award
- 2006 ISCA Recognition of Five Years of Continuous Membership Award
- 2006 Computer Science Faculty Improvement Grant: New Media