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Education

- 1996 Doctor of Philosophy, Computer Engineering, University of Massachusetts Amherst
- 1986 Master of Science, Electrical Engineering, Syracuse University
- 1982 Bachelor of Science, Electrical Engineering, University of Massachusetts Amherst

Professional Experience

- 2020 Associate Director, Electrical and Computer Engineering, Cornell University
- 2010- Professor, Electrical and Computer Engineering, Cornell University
- 2013-16 Associate Director, Electrical and Computer Engineering, Cornell University
- 2004-10 Associate Professor, Electrical and Computer Engineering, Cornell University

- 2001-04 Associate Professor, Electrical and Computer Engineering, University of Rochester
- 1996-2001 Assistant Professor, Electrical and Computer Engineering, University of Rochester

- 1993-96 Research Engineer, Electrical and Computer Engineering, University of Massachusetts
Digital systems consulting, system administration, and evaluation of benchmark performance of supercomputers and workstations.

- 1992-95 Lecturer, Electrical and Computer Engineering, University of Massachusetts
Revamped undergraduate digital design and microprocessor systems laboratory courses.

- 1986-92 Section Manager/Principal Engineer, Processor Development, Prime Computer, Inc.
Project manager and computer architect for high performance uniprocessor and multi-processor designs implemented using CMOS and ECL technologies.

- 1982-86 Senior Associate Engineer, Memory Development, IBM Corporation
IBM 3090 mainframe main memory subsystem development including chip design and verification, circuit and board-level analysis, and hardware prototype debugging and integration with other subsystems.

Honors and Awards

- IEEE Fellow
- International Symposium on Microarchitecture Test of Time Award
- Three IEEE Micro Top Picks in Computer Architecture Awards

Three IBM Faculty Awards
NSF CAREER Award
MICRO Hall of Fame
Kenneth A. Goldman '71 Excellence in Teaching Award
Michael Tien '72 Excellence in Teaching Award
Ralph S. Watts '72 Excellence in Teaching Award
Ruth and Joel Spira Excellence in Teaching Award (twice)
IEEE Computer Society Golden Core Award
Prime Computer Patent Plateau Award
Two Prime Computer Excellence Awards
IBM Excellence Award

Book Chapters

“Alleviating Thermal Constraints while Maintaining Performance Via Silicon-Based On-Chip Optical Interconnects,” N. Nelson, G. Briggs, M. Haurylau, G. Chen, H. Chen, D.H. Albonesi, E.G. Friedman, and P.M. Fauchet, *Unique Chips and Systems*, CRC Press, 2007.

“Power-Efficient Issue Queue Design,” A. Buyuktosunoglu, D.H. Albonesi, S. Schuster, D. Brooks, P. Bose, P. Cook, in *Power Aware Computing*, R. Graybill and R. Melhem (Eds), Kluwer Academic Publishers, Chapter 3, pp. 37-60, 2002.

“Low-Voltage 0.25um CMOS Improved Power Adaptive Issue Queue For Embedded Microprocessors,” B.W. Curran, M. Gifaldi, J. Martin, A. Buyuktosunoglu, M. Margala, and D.H. Albonesi, in *SOC Design Methodologies*, M. Robert, B. Rouzeyre, C. Piguet, and M.-L. Flottes (Eds), Kluwer Academic Publishers, 2002.

Journal Publications

“A Phase Adaptive Cache Hierarchy for SMT Processors,” S. Lopez, O. Garnica, D.H. Albonesi, S. Dropsho, J. Lanchares, and J.I. Hidalgo, *Microprocessors & Microsystems*, Vol. 35, No. 8, pp. 683-694, November 2011.

“A Low Latency, High Throughput On-Chip Optical Router Architecture for Future Chip Multiprocessors,” M.J. Cianchetti and D.H. Albonesi, *ACM Journal on Emerging Technologies in Computing Systems*, Special Issue on Nanophotonic Communication Technology Integration, Vol. 7, No. 2, June 2011.

“ReMAP: A Reconfigurable Architecture for Chip Multiprocessors,” M.A. Watkins and D.H. Albonesi, *IEEE Micro*, Special Issue on the Top Picks from the Computer Architecture Conferences, pp. 65-77, January/February 2011 (IEEE Micro Top Picks).

“Addressing Thermal Non-Uniformity in SMT Workloads,” J.A. Winter and D.H. Albonesi, *ACM Transactions on Architecture and Code Optimization*, Vol. 5, No. 1, May 2008.

“Predictions of CMOS Compatible On-Chip Optical Interconnect,” G. Chen, H. Chen, M. Haurylau, N. A. Nelson, D. H. Albonesi, P. M. Fauchet, and E. G. Friedman, *Integration*, The VLSI Journal, Vol. 40, No. 4, pp. 434-446, July 2007.

“On-chip Optical Technology in Future Bus-based Multicore Designs: Opportunities and Challenges,” N. Kirman, M. Kirman, R.K. Dokania, J. Martínez, A.B. Apsel, M.A. Watkins, and D.H. Albonesi, *IEEE Micro*, Special Issue on the Top Picks from the Computer Architecture Conferences, pp. 56-66, January/February 2007 (IEEE Micro Top Picks).

“On-Chip Optical Interconnect Roadmap: Challenges and Critical Directions,” M. Haurylau, G. Chen, H. Chen, J. Zhang, N.A. Nelson, D.H. Albonesi, E.G. Friedman, and P.M. Fauchet, *IEEE Journal of Selected Topics in Quantum Electronics*, Special Issue on Silicon Photonics, Vol. 12, No. 6, pp. 1699-1705, November/December 2006.

“Power Efficient Error Tolerance in Chip Multi-Processors,” M.W. Rashid, E.J. Tan, M.C. Huang, and D.H. Albonesi, *IEEE Micro*, Special Issue on Reliability-Aware Microarchitectures, Vol. 25, No. 6, pp. 60-70, November/December 2005.

“Micro’s Top Picks from Microarchitecture Conferences,” D.H. Albonesi, *IEEE Micro*, Guest Editor’s Introduction for Special Issue on Micro’s Top Picks from Microarchitecture Conferences, Vol. 24, No. 6, pp. 8-9, November/December 2004.

“An Evaluation of a Configurable VLIW Microarchitecture for Embedded DSP Applications,” W. Liu, D.H. Albonesi, J. Gostomski, L. Palum, D. Hinterberger, R. Wanzenried, and M. Indovina, *Journal of Circuits, Systems, and Computers*, Special Issue on VLSI Architectures for Multimedia Applications, Vol. 13, No. 6, pp. 1321-1345, December 2004.

“Dynamically Tuning Processor Resources with Adaptive Processing,” D.H. Albonesi, R. Balasubramonian, S.G. Dropsho, S. Dwarkadas, E.G. Friedman, M.C. Huang, V. Kursun, G. Magklis, M.L. Scott, G. Semeraro, P. Bose, A. Buyuktosunoglu, P.W. Cook, and S.E. Schuster, *IEEE Computer*, Special Issue on Power-Aware Computing, Vol. 36, No. 12, pp. 49-58, December 2003.

“Dynamic Frequency and Voltage Scaling for a Multiple-Clock-Domain Microprocessor,” G. Magklis, G. Semeraro, D.H. Albonesi, S.G. Dropsho, S. Dwarkadas, and M.L. Scott, *IEEE Micro*, Special Issue on the Top Picks from the Computer Architecture Conferences, Vol. 23, No. 6, pp. 62-68, November/December 2003 (IEEE Micro Top Picks).

“A Dynamically Tunable Memory Hierarchy,” R. Balasubramonian, D.H. Albonesi, A. Buyuktosunoglu, and S. Dwarkadas, *IEEE Transactions on Computers*, Vol. 52, No. 10, pp. 1243-1258, October 2003.

“Power and Complexity Aware Design,” P. Bose, D.H. Albonesi, and D. Marculescu, *IEEE Micro*, Guest Editors’ Introduction for Special Issue on Power and Complexity Aware Design, Vol. 23, No. 5, pp. 8-11, September/October 2003.

“Selective Cache Ways: On-Demand Cache Resource Allocation,” D.H. Albonesi, *Journal of Instruction-Level Parallelism*, Special Issue on the Best Papers from the 32nd International Symposium on Microarchitecture, Vol. 2, 2000.

“Runtime Reconfiguration Techniques for Efficient General Purpose Computation,” B. Xu and D.H. Albonesi, *IEEE Design & Test of Computers*, Special Issue on Configurable Computing, pp. 42-52, January-March, 2000.

“STATS: A Framework for Microprocessor and System-Level Design Space Exploration,” D.H. Albonesi and I. Koren, *Journal of Systems Architecture*, Special Issue on Microprocessor Architecture, Vol. 45, No. 12-13, pp. 1097-1110, June 1999.

“A Mean Value Analysis Multiprocessor Model Incorporating Superscalar Processors and Latency Tolerating Techniques,” D.H. Albonesi and I. Koren, *International Journal of Parallel Programming*, Special Issue on Parallel Architectures and Compilation Techniques, Vol. 24, No. 3, pp. 235-263, August 1996.

Refereed Conference and Workshop Publications

“CuttleSys: Data-Driven Resource Management for Interactive Applications on Reconfigurable Multicores,” N. Kulkarni et al., *53rd International Symposium on Microarchitecture*, October 2020.

“MatRaptor: A Sparse-Sparse Matrix Multiplication Accelerator Based on Row-Wise Product,” N. Srivastava et al., *53rd International Symposium on Microarchitecture*, October 2020.

“Tensaurus: A Versatile Accelerator for Mixed Sparse-Dense Tensor Computations,” N. Srivastava et al., *26th International Symposium on High-Performance Computer Architecture*, February 2020.

“Productively Generating High-Performance Spatial Hardware for Dense Tensor Computations,” N. Srivastava et al., *27th International Symposium on Field-Programmable Custom Computing Machines*, April 2019.

“DeepRecon: Dynamically Reconfigurable Architecture for Accelerating Deep Neural Networks,” T. Rzyayev, S. Moradi, D.H. Albonesi, and R. Manohar, *International Joint Conference on Neural Networks*, May 2017.

“Toolbox for Exploration of Energy-Efficient Event Processors for Human-Computer Interaction,” T. Rzyayev, D.H. Albonesi, R. Manohar, F. Guimbretiere, and J. Kihm, *International Symposium on Performance Analysis of Systems and Software*, April 2017.

“Dynamic GPGPU Power Management using Adaptive Model Predictive Control,” A. Majumdar, L. Piga, I. Paul, J.L. Greathouse, W. Huang, and D.H. Albonesi, *23rd International Symposium on High Performance Computer Architecture*, February 2017.

“Fractured Arithmetic Accelerator for Training Deep Neural Networks,” T. Rzyayev, S. Moradi, D.H. Albonesi, and R. Manohar, *Workshop on Hardware and Algorithms for On-chip Learning*, held at the *International Conference on Computer-Aided Design*, November 2016.

“Characterizing the Benefits and Limitations of Smart Building Meeting Room Scheduling,” A. Majumdar, Z. Zhang, and D.H. Albonesi, *7th International Conference on Cyber-Physical Systems*, April 2016.

“Energy-Comfort Optimization using Discomfort History and Probabilistic Occupancy Prediction,” A. Majumdar, J.L. Setter, J.R. Dobbs, B.M. Hency, and D.H. Albonesei, *5th International Green Computing Conference*, November 2014.

“Flicker: A Dynamically Adaptive Architecture for Power Limited Multicore Systems,” P. Petrica, A.M. Izraelevitz, D.H. Albonesei, and C.A. Shoemaker, *40th International Symposium on Computer Architecture*, pp. 13-23, June 2013.

“Energy-Aware Meeting Scheduling Algorithms for Smart Buildings,” A. Majumdar, D.H. Albonesei, and P. Bose, *4th ACM Workshop On Embedded Systems For Energy-Efficiency In Buildings*, November 2012.

“ReMAP: A Reconfigurable Heterogeneous Multicore Architecture,” M.A. Watkins and D.H. Albonesei, *43rd International Symposium on Microarchitecture*, pp. 497-508, December 2010.

“Scalable Thread Scheduling and Global Power Management for Heterogeneous Many-Core Architectures,” J.A. Winter, D.H. Albonesei, and C.A. Shoemaker, *19th International Conference on Parallel Architectures and Compilation Techniques*, pp. 29-39, September 2010.

“Dynamically Managed Multithreaded Reconfigurable Architectures for Chip Multiprocessors,” M.A. Watkins and D.H. Albonesei, *19th International Conference on Parallel Architectures and Compilation Techniques*, pp. 41-52, September 2010.

“Adaptive Cache Memories for SMT Processors,” S. Lopez, O. Garnica, D.H. Albonesei, S. Dropsho, J. Lanchares, and J.I. Hidalgo, *13th Euromicro Conference on Digital System Design*, pp. 331-338, September 2010.

“Dynamic Power Redistribution in Failure Prone CMPs,” P. Petrica, J.A. Winter, and D.H. Albonesei, *Workshop on Energy Efficient Design*, June 2010.

“Enabling Parallelization via a Reconfigurable Chip Multiprocessor,” M.A. Watkins and D.H. Albonesei, *Workshop on Parallel Execution of Sequential Programs on Multi-core Architectures*, June 2010.

“Phastlane: A Rapid Transit Optical Routing Network,” M.J. Cianchetti, J.C. Kerekes, and D.H. Albonesei, *36th International Symposium on Computer Architecture*, pp. 441-450, June 2009.

“Shared Reconfigurable Architectures for CMPs,” M.A. Watkins, M.J. Cianchetti, and D.H. Albonesei, *18th IEEE International Conference on Field Programmable Logic and Applications*, September 2008 (Best Paper Award Nomination).

“The Scalability of Scheduling Algorithms for Unpredictably Heterogeneous CMP Architectures,” J.A. Winter and D.H. Albonesei, *Workshop on Parallel Execution of Sequential Programs on Multi-core Architectures*, held at the *35th International Symposium on Computer Architecture*, June 2008.

“Scheduling Algorithms for Unpredictably Heterogeneous CMP Architectures,” J.A. Winter and D.H. Albonesei, *38th International Conference on Dependable Systems and Networks*, pp. 42-51, June 2008.

- “On-Chip Optical Interconnects: Challenges and Critical Directions,” G. Chen, H. Chen, M. Haurylau, N.A. Nelson, D.H. Albonesi, P.M. Fauchet, and E.G. Friedman, *Proceedings of the European Optical Society Topical Meeting on Optical Microsystems*, p. 97, October 2007.
- “On-Chip Optical Interconnect for Reduced Delay Uncertainty,” G. Chen, H. Chen, M. Haurylau, N.A. Nelson, D.H. Albonesi, P.M. Fauchet, and E.G. Friedman, *Proceedings of Nano-Net*, September 2007.
- “Dynamic Capacity-Speed Tradeoffs in SMT Processor Caches,” S. Lopez, S. Dropsho, D.H. Albonesi, O. Garnica, and J. Lanchares, *International Conference on High Performance Embedded Architectures and Compilers*, pp. 136-150, January 2007.
- “Leveraging Optical Technology in Future Bus-based Chip Multiprocessors,” N. Kirman, M. Kirman,, R.K. Dokania, J. Martínez, A.B. Apsel, M.A. Watkins, and D.H. Albonesi, *39th International Symposium on Microarchitecture*, December 2006 (Best Paper Award Nomination).
- “Synergistic Temperature and Energy Management in GALS Processor Architectures,” Y. Zhu and D.H. Albonesi, *International Symposium on Low Power Electronics and Design*, pp. 55-60, October 2006.
- “On-Chip Copper-Based vs. Optical Interconnects: Delay Uncertainty, Latency, Power, and Bandwidth Density Comparative Predictions,” G. Chen, H. Chen, M. Haurylau, N.A. Nelson, D.H. Albonesi, P.M. Fauchet, and E.G. Friedman, *IEEE International Interconnect Technology Conference*, pp. 39-41, June 2006.
- “Localized Microarchitecture-Level Voltage Management,” Y. Zhu and D.H. Albonesi, *International Symposium on Circuits and Systems*, pp. 37-40, May 2006.
- “Compatible Phase Co-Scheduling on a CMP of Multi-Threaded Processors,” A. El-Moursy, R. Garg, D.H. Albonesi, and S. Dwarkadas, *20th International Parallel and Distributed Processing Symposium*, April 2006.
- “Exploiting Coarse-Grain Verification Parallelism for Power-Efficient Fault Tolerance,” M.W. Rashid, E.J. Tan, M.C. Huang, and D.H. Albonesi, *14th International Conference on Parallel Architectures and Compilation Techniques*, pp. 315-325, September 2005.
- “On-chip Optical Interconnect Roadmap: Challenges and Critical Directions,” M. Haurylau, H. Chen, J. Zhang, G. Chen, N.A. Nelson, D.H. Albonesi, E.G. Friedman, and P.M. Fauchet, *2nd International Group IV Photonics Conference*, pp. 17-19, September 2005.
- “QUILT: A GUI-based Integrated Circuit Floorplanning Environment for Computer Architecture Research and Education,” G.J. Briggs, E.J. Tan, N.A. Nelson, and D.H. Albonesi, *Workshop on Computer Architecture Education*, June 2005.
- “Electrical and Optical On-Chip Interconnects in Scaled Microprocessors,” G. Chen, H. Chen, M. Haurylau, N. Nelson, D.H. Albonesi, P.M. Fauchet, and E.G. Friedman, *International Symposium on Circuits and Systems*, pp. 2514-2517, May 2005.
- “Predictions of CMOS Compatible On-Chip Optical Interconnect,” G. Chen, H. Chen, M. Haurylau, N. Nelson, P.M. Fauchet, E.G. Friedman, and D.H. Albonesi, *7th International Workshop on System Level Interconnect Prediction*, pp. 13-20, April 2005.

“A High Performance, Energy Efficient, GALS Processor Microarchitecture with Reduced Implementation Complexity,” Y. Zhu, D.H. Albonesi, and A. Buyuktosunoglu, *International Symposium on Performance Analysis of Systems and Software*, pp. 42-53, March 2005.

“Partitioning Multi-Threaded Processors with a Large Number of Threads,” A. El-Moursy, R. Garg, D.H. Albonesi, and S. Dwarkadas, *International Symposium on Performance Analysis of Systems and Software*, pp. 112-123, March 2005.

“Alleviating Thermal Constraints while Maintaining Performance Via Silicon-Based On-Chip Optical Interconnects,” N. Nelson, G. Briggs, M. Haurylau, G. Chen, H. Chen, D.H. Albonesi, E.G. Friedman, and P.M. Fauchet, *Workshop on Unique Chips and Systems*, March 2005.

“Dynamically Trading Frequency for Complexity in a GALS Microprocessor,” S. Dropsho, G. Semeraro, D.H. Albonesi, G. Magklis, and M.L. Scott, *37th International Symposium on Microarchitecture*, pp. 157-168, December 2004 (Best Paper Award Nomination).

“Dynamically Matching ILP Characteristics Via a Heterogeneous Clustered Microarchitecture,” L. Chen, D.H. Albonesi, and S. Dropsho, *IBM Watson Conference on the Interaction Between Architecture, Circuits, and Compilers*, pp. 136-143, October 2004.

“The Energy Impact of Aggressive Loop Fusion,” Y. Zhu, G. Magklis, M.L. Scott, C. Ding, and D.H. Albonesi, *13th International Conference on Parallel Architectures and Compilation Techniques*, pp. 153-164, September 2004.

“Mitigating Inductive Noise in SMT Processors,” W. El-Essawy and D.H. Albonesi, *International Symposium on Low Power Electronics and Design*, pp. 332-337, August 2004.

“Hiding Synchronization Delays in a GALS Processor Microarchitecture,” G. Semeraro, D.H. Albonesi, G. Magklis, M.L. Scott, S.G. Dropsho, and S. Dwarkadas, *10th International Symposium on Asynchronous Circuits and Systems*, pp. 159-169, April 2004.

“Improving Application Performance by Dynamically Balancing Speed and Complexity in a GALS Microprocessor,” G. Semeraro, D.H. Albonesi, S. Dropsho, G. Magklis, S. Dwarkadas, and M.L. Scott, *Workshop on Application Specific Processors*, December 2003.

“Energy Efficient Co-Adaptive Instruction Fetch and Issue,” A. Buyuktosunoglu, T. Karkhanis, D.H. Albonesi, and P. Bose, *30th International Symposium on Computer Architecture*, pp. 147-156, June 2003.

“Dynamically Managing the Communication-Parallelism Trade-off in Future Clustered Processors,” R. Balasubramonian, S. Dwarkadas, and D.H. Albonesi, *30th International Symposium on Computer Architecture*, pp. 275-286, June 2003.

“Profile-based Dynamic Voltage and Frequency Scaling for a Multiple Clock Domain Microprocessor,” G. Magklis, M.L. Scott, G. Semeraro, D.H. Albonesi, and S. Dropsho, *30th International Symposium on Computer Architecture*, pp. 14-25, June 2003.

- “Front-End Policies for Improved Issue Efficiency in SMT Processors,” A. El-Moursy and D.H. Albonesi, *9th International Symposium on High-Performance Computer Architecture*, pp. 31-40, February 2003.
- “Dynamic Data Dependence Tracking and its Application to Branch Prediction,” L. Chen, S. Dropsho, and D.H. Albonesi, *9th International Symposium on High-Performance Computer Architecture*, pp. 65-76, February 2003.
- “Dynamic Frequency and Voltage Control for a Multiple Clock Domain Microarchitecture,” G. Semeraro, D.H. Albonesi, S.G. Dropsho, G. Magklis, S. Dwarkadas, and M.L. Scott, *35th International Symposium on Microarchitecture*, pp. 356-367, November 2002.
- “Managing Static Leakage Energy in Microprocessor Functional Units,” S. Dropsho, V. Kursun, D.H. Albonesi, S. Dwarkadas, and E.G. Friedman, *35th International Symposium on Microarchitecture*, pp. 321-332, November 2002.
- “Integrating Adaptive On-Chip Storage Structures for Reduced Dynamic Power,” S. Dropsho, A. Buyuktosunoglu, R. Balasubramonian, D.H. Albonesi, S. Dwarkadas, G. Semeraro, G. Magklis, and M.L. Scott, *11th International Conference on Parallel Architectures and Compilation Techniques*, pp. 141-152, September 2002.
- “An Oldest-First Selection Logic Implementation for Non-Compacting Issue Queues,” A. Buyuktosunoglu, A. El-Moursy, and D.H. Albonesi, *15th International ASIC/SOC Conference*, pp. 31-35, September 2002.
- “Tradeoffs in Power-Efficient Issue Queue Design,” A. Buyuktosunoglu, D.H. Albonesi, P. Bose, P. Cook, S. Schuster, *International Symposium on Low Power Electronics and Design*, pp. 184-189, August 2002.
- “A Microarchitectural-Level Step-Power Analysis Tool,” W. El-Essawy, D.H. Albonesi, and B. Sinharoy, *International Symposium on Low Power Electronics and Design*, pp. 263-266, August 2002.
- “Energy Efficient Processor Design Using Multiple Clock Domains with Dynamic Voltage and Frequency Scaling,” G. Semeraro, G. Magklis, R. Balasubramonian, D.H. Albonesi, S. Dwarkadas, and M.L. Scott, *8th International Symposium on High-Performance Computer Architecture*, pp. 29-40, February 2002.
- “Early Stage Definition of LPX: A Low Power Issue-Execute Processor,” P. Bose, D. Brooks, A. Buyuktosunoglu, P. Cook, K. Das, P. Emma, M. Gschwind, H. Jacobson, T. Karkhanis, P. Kudva, S. Schuster, J. Smith, V. Srinivasan, V. Zyuban, D. Albonesi, S. Dwarkadas, *Workshop on Power-Aware Computer Systems*, February 2002.
- “Low-Voltage 0.25um CMOS Improved Power Adaptive Issue Queue For Embedded Microprocessors,” B.W. Curran, M. Gifaldi, J. Martin, A. Buyuktosunoglu, M. Margala, and D.H. Albonesi, in *11th International Conference on Very Large Scale Integration of Systems-on/Chip: SOC Design Methodologies*, pp. 289-300, December 2001.
- “Reducing the Complexity of the Register File in Dynamic Superscalar Processors,” R. Balasubramonian, S. Dwarkadas, and D.H. Albonesi, *34th International Symposium on Microarchitecture*, pp. 237-248, December 2001.
- “A Dynamic Reconfigurable Clock Generator,” R.M. Secareanu, D. Albonesi, and E.G. Friedman, *14th International ASIC/SOC Conference*, pp. 330-333, September 2001.

- “Dynamically Allocating Processor Resources Between Nearby and Distant ILP,” R. Balasubramonian, S. Dwarkadas, and D.H. Albonesi, *28th International Symposium on Computer Architecture*, pp. 26-37, June 2001.
- “A Circuit Level Implementation of an Adaptive Issue Queue for Power-Aware Microprocessors,” A. Buyuktosunoglu, S. Schuster, D. Brooks, P. Bose, P. Cook, and D.H. Albonesi, *11th Great Lakes Symposium on VLSI*, pp. 73-78, March 2001.
- “Memory Hierarchy Reconfiguration for Energy and Performance in General Purpose Processor Architectures,” R. Balasubramonian, D.H. Albonesi, A. Buyuktosunoglu, and S. Dwarkadas, *33rd International Symposium on Microarchitecture*, pp. 245-257, December 2000.
- “An Adaptive Issue Queue for Reduced Power at High Performance,” A. Buyuktosunoglu, S. Schuster, D. Brooks, P. Bose, P. Cook, and D.H. Albonesi, *Workshop on Power-Aware Computer Systems*, November 2000.
- “Dynamic Memory Hierarchy Performance Optimization,” R. Balasubramonian, D.H. Albonesi, A. Buyuktosunoglu, and S. Dwarkadas, *Workshop on Solving the Memory Wall Problem*, June 2000.
- “An Architectural and Circuit-Level Approach to Improving the Energy Efficiency of Microprocessor Memory Structures,” D.H. Albonesi, *10th International Conference on VLSI*, pp. 192-203, December 1999.
- “Selective Cache Ways: On-Demand Cache Resource Allocation,” D.H. Albonesi, *32nd International Symposium on Microarchitecture*, pp. 248-259, November 1999.
- “A Methodology for the Analysis of Dynamic Application Parallelism and Its Application to Reconfigurable Computing,” B. Xu and D.H. Albonesi, *SPIE International Conference on Reconfigurable Technology: FPGAs for Computing and Applications*, pp. 78-86, September 1999.
- “Dynamic IPC/Clock Rate Optimization,” D.H. Albonesi, *25th International Symposium on Computer Architecture*, pp. 282-292, June 1998.
- “The Inherent Energy Efficiency of Complexity-Adaptive Processors,” D.H. Albonesi, *Power-Driven Microarchitecture Workshop*, pp. 107-112, June 1998.
- “Improving the Memory Bandwidth of Highly-Integrated, Wide-Issue, Microprocessor-Based Systems,” D.H. Albonesi and I. Koren, *5th International Conference on Parallel Architectures and Compilation Techniques*, pp. 126-135, November 1997.
- “An Automated and Flexible Framework for Integrated Microprocessor and System-Level Design Space Exploration,” D.H. Albonesi and I. Koren, *Workshop on Performance Analysis and its Impact on Design*, pp. 25-34, June 1997.
- “Architecture and Technology Tradeoffs in the Design of Next-Generation Multiprocessor Servers,” D.H. Albonesi and I. Koren, *7th IEEE Symposium on Parallel and Distributed Processing*, pp. 174-181, October 1995.
- “An Analytical Model Of High Performance Superscalar-Based Multiprocessors,” D.H. Albonesi and I. Koren, *3rd International Conference on Parallel Architectures and Compilation Techniques*, pp. 194-203, June 1995.

“Tradeoffs in the Design of Single Chip Multiprocessors,” D.H. Albonesi and I. Koren, *2nd International Conference on Parallel Architectures and Compilation Techniques*, pp. 25-34, August 1994.

Poster Presentations

“Fractured Arithmetic Accelerator for Training Deep Neural Networks,” T. Rzayev, S. Moradi, D.H. Albonesi, and R. Manohar, *Workshop on Hardware and Algorithms for Learning On-a-chip*, November 2016.

“PowerPlay: Coordinated Power Management and Scheduling for Unpredictably Heterogeneous CMPs,” J.A. Winter, D.H. Albonesi, and C.A. Shoemaker, *International Conference on Architectural Support for Programming Languages and Operating Systems*, March 2009.

“Rate-Driven Control of Resizable Caches for Highly Threaded SMT Processors,” S. Lopez, S. Dropsho, D.H. Albonesi, O. Garnica, and J. Lanchares, *International Conference on Parallel Architectures and Compilation Techniques*, September 2007.

“Optical On-Chip Networks for High-Performance, Energy-Efficient Multi-Core Architectures,” D.H. Albonesi, J.F. Martinez, M.A. Watkins, N. Kirman, M. Kirman, K. Bergman, L. Carloni, and A. Shacham, *Workshop on On- and Off-Chip Interconnection Networks for Multicore Systems*, December 2006.

“Leveraging Optical Technology in Future Bus-based Chip Multiprocessors,” N. Kirman, M. Kirman, R.K. Dokania, J.F. Martinez, A.B. Apsel, M.A. Watkins, and D.H. Albonesi, *Workshop on On- and Off-Chip Interconnection Networks for Multicore Systems*, December 2006.

Patents

“Building Power Management Systems,” D.H. Albonesi, H. Chong, B. Hency, and C.A. Shoemaker, U.S. Patent 10,371,405, issued 8/6/19.

“Multi-Core Computer Processor Based on a Dynamic Core-Level Power Management for Enhanced Overall Power Efficiency,” P. Patrica, A.M. Izraelevitz, D.H. Albonesi, and C.A. Shoemaker, U.S. Patent 10,088,891, issued 10/2/18.

“Performance Monitoring for New Phase Dynamic Optimization of Instruction Dispatch Cluster Configuration,” R. Balasubramonian, S. Dwarkadas, and D.H. Albonesi, U.S. Patent 8,103,856, issued 1/24/12.

“Adaptive Issue Queue for Reduced Power at High Performance,” A. Buyuktosunoglu, S. Schuster, D. Brooks, P. Bose, P. Cook, and D.H. Albonesi, U.S. Patent 7,865,747, issued 1/4/11.

“Dynamic Data Dependence Tracking and its Application to Branch Prediction,” L. Chen, D. Albonesi, and S. Dropsho, U.S. Patent 7,571,302, issued 8/4/09.

“Multi-cluster Processor Operating Only Select Number of Clusters During Each Phase Based on Program Statistic Monitored at Predetermined Intervals,” R. Balasubramonian, S. Dwarkadas, and D.H. Albonesi, U.S. Patent 7,490,220, issued 2/10/09.

“Multiple Clock Domain Microprocessor,” D.H. Albonesi, G. Semeraro, G. Magklis, M.L. Scott, R. Balasubramonian, and S. Dwarkadas, U.S. Patent 7,089,443, issued 8/8/06.

“Multiple Clock Domain Microprocessor,” D.H. Albonesi, G. Semeraro, G. Magklis, M.L. Scott, R. Balasubramonian, and S. Dwarkadas, U.S. Patent 7,739,537, issued 3/27/06.

“Memory Hierarchy Reconfiguration for Energy and Performance in General-Purpose Processor Architectures,” R. Balasubramonian, D.H. Albonesi, A. Buyuktosunoglu, and S. Dwarkadas, U.S. Patent 6,834,328, issued 12/21/04.

“Dynamically Reconfigurable Memory Hierarchy,” R. Balasubramonian, D.H. Albonesi, A. Buyuktosunoglu, and S. Dwarkadas, U.S. Patent 6,684,298, issued 1/27/04.

“Mechanism for Dynamically Adapting the Complexity of a Microprocessor,” D.H. Albonesi, U.S. Patent 6,205,537, issued 3/20/01.

“Electric Cable Connection Error-Detect Method and Apparatus,” D.H. Albonesi, U.S. Patent 5,170,113, issued 12/8/92.

“Memory Board Selection Method and Apparatus,” D.H. Albonesi, U.S. Patent 5,119,486, issued 6/2/92.

“System Bus for Multiprocessor Computer System,” D.H. Albonesi, B.K. Langendorf, J. Chang, J.G. Faase, and M.J. Homberg, U.S. Patent 5,113,514, issued 5/12/92.

“Memory Error Correction System,” D.H. Albonesi, U.S. Patent 4,920,539, issued 4/24/90.

Graduated PhD Students

Tayyar Rzayev, “Architectures for Intelligent Interactive Systems,” School of Electrical and Computer Engineering, Cornell University, May 2019. First employment: Xilinx Incorporated.

Abhinandan Majumdar, “Proactive Energy Management for Smart Building and Compute Server Architectures,” School of Electrical and Computer Engineering, Cornell University, December 2017. First employment: Intel Corporation.

Paula Petrica, “Modular Architectures and Optimization Techniques for Power and Reliability in Future Many Core Microprocessors,” School of Electrical and Computer Engineering, Cornell University, January 2012. First employment: Intel Corporation.

Mark Cianchetti, “Nanophotonic Interconnect Architectures for Many-core Microprocessors,” School of Electrical and Computer Engineering, Cornell University, January 2012. First employment: Intel Corporation.

Matt Watkins, “Reconfigurable Architectures for Chip Multiprocessors,” School of Electrical and Computer Engineering, Cornell University, August 2010. First employment: Harvey Mudd College.

Jonathan Winter, “Adaptive Thread Management for Power, Performance, and Reliability in Future Microprocessors,” Department of Computer Science, Cornell University, February 2010. First employment: Google.

Sonia Lopez Alarcon, “Adaptive Cache Memories for SMT Processors,” Department of Computer Architecture, Universidad Complutense de Madrid, March 2009 (co-advisor

with Oscar Garnica and Juan Lanchares). First employment: Rochester Institute of Technology.

Yongkang Zhu, “Hardware and Software Optimizations for Multiple Clock Domain Microprocessors,” Department of Electrical and Computer Engineering, University of Rochester, September 2005. First employment: Microsoft Corporation.

Ali El-Moursy, “Highly Efficient Multithreaded Architecture,” Department of Electrical and Computer Engineering, University of Rochester, August 2005 (unofficial co-advisor: Sandhya Dwarkadas). First employment: Intel Corporation.

Wael El-Essawy, “Architectural Level Analysis and Mitigation of Inductive Noise in Simultaneous Multi-Threaded Processors,” Department of Electrical and Computer Engineering, University of Rochester, October 2004. First employment: IBM Austin Research Laboratory.

Lei Chen, “Dynamic Data Dependence Tracking and its Applications,” Department of Electrical and Computer Engineering, University of Rochester, October 2004. First employment: IBM Austin Research Laboratory.

Greg Semeraro, “Multiple Clock Domain Microarchitecture Design and Analysis,” Department of Electrical and Computer Engineering, University of Rochester, October 2003. First employment: Rochester Institute of Technology.

Rajeev Balasubramonian, “Dynamic Management of Microprocessor Resources in Future Microprocessors,” Department of Computer Science, University of Rochester, August 2003 (unofficial co-advisor; advisor: Sandhya Dwarkadas). First employment: University of Utah.

Alper Buyuktosunoglu, “Power-Efficient Issue Queue Design,” Department of Electrical and Computer Engineering, University of Rochester, June 2003. First employment: IBM T.J. Watson Research Center.

Current PhD Students

Neeraj Kulkarni (co-advised with Christina Delimitrou), School of Electrical and Computer Engineering, Cornell University.

Nitish Srivastava (co-advised with Zhiru Zhang), School of Electrical and Computer Engineering, Cornell University.

Postdoctoral Researchers

Dr. Steven Dropsho, Department of Computer Science, University of Rochester, 9/2001-10/2003. First employment: EPFL.

Graduated MS Students

Haotian Pan, “HVAC Energy and Occupant Comfort Optimization Using Neural Network-Based Temperature Prediction,” School of Electrical and Computer Engineering, Cornell University, August 2015. First employment: Facebook.

Keith Kraft, “Trace Cache Hierarchies,” Department of Electrical and Computer Engineering, University of Rochester, May 2003. First employment: Intel Corporation.

Undergraduate Research Students

Ben Roberge (2017-18), Adam Wojciechowski (2017-18), Jason Setter (2013-15), Vasu Mannar (2014), Wei Geng (2014), Scott McKenzie (2014), Vitchyr Pong (2013), Adam Izraelevitz (2011-13), Alvin Wijaya (2012), Ari Karo (2012), Jee Ho Ryoo (2010-11), Joseph Kerekes (2009-10), Greg Briggs (2005), Alvin Law (2002), Jethro Law (2000), John Strasser (1999).

PhD Dissertation Committees

Filipp Akopyan, Major Bhadauria, David Biermann, Tao Chen, Justin Dobbs, David Fang, Bye-sah Gantsog, Saugata Ghose, Benjamin Hill, Raymond Huang, Engin Ipek, Sandra Jackson, Hanchen Jin, Meyrem Kirman, Chris LaFrieda, Jian Li, Derek Lockhart, Janani Mukundan, Paruj Ratanaworabhan, Basit Shiekh, Karan Singh, Peter Szwed, Jonathan Tse, Xiaodong Wang, Vince Weaver, Yuan Zhou (Cornell); Victor Adler, Magdy El-Moursy, Galen Hunt, Ivan Kourtev, Volkan Kursun, Grigoris Magklis, Andrey Meshiba, Umit Rencuzogullari, Tolga Soyata, Robert Stets, Kevin Tang, Dimitrios Velenis, Yutao Zhong (University of Rochester); Anne Bracy (University of Pennsylvania); Jaume Abella (Universitat Politecnica de Catalunya [UPC]).

MS Thesis Committees

Major Bhadauria, Ramazan Bitirgen, Julia Karl, Nevin Kirman, Catherine Trammell (Cornell); Michael Wieckowski (University of Rochester).

Teaching and Curriculum Development

The Computing Technology Inside Your Smartphone

Online edX course. Developed and taught Spring'15. Taught Summer'16.

Digital Logic and Computer Organization

Undergraduate course in digital logic design and computer architecture. Revamped Spring'10. Taught Spring'06, Spring'07, Spring'10, Fall'13, Fall'16, Fall'17, Fall'18, and Fall'19.

The Computing Technology Inside Your Smartphone

Freshman course in computer systems. Developed and taught Fall'10. Taught Fall'11, Fall'12, Spring'17, Spring'18, Spring'19, and Spring'20.

Memory Systems

Graduate course covering advanced topics in caches, main memory, and storage systems. Developed and taught Spring'09. Taught Spring'11 and Spring'14.

Resilient Computer Systems

Graduate course covering fault tolerant computer systems, including resilience in commodity systems. Developed and taught Fall'08. Taught Spring'12.

Parallel Computer Architecture

Graduate course on the architecture of parallel systems. Taught Fall'09.

Contemporary Issues in Computer Architecture

Graduate course covering research in high performance microarchitecture, with an emphasis on power and reliability. Developed and taught Spring'05. Taught Fall'05 and Fall'06.

Engineering Seminar

Introductory one-credit course for Engineering freshman. Taught Fall'05, Fall'09, Fall'13, and Fall'17.

Power- and Reliability-Aware Microarchitecture

International Summer School on Advanced Computer Architecture and Compilation for Embedded Systems (ACACES). Sponsored by the European HiPEAC organization. Developed and taught Summer'09.

Computer Organization

Undergraduate level computer organization. Developed and taught Fall'01. Taught Fall'02 and Fall'03.

Advanced Computer Architecture

Senior/graduate level computer architecture. Developed and taught Spring'98. Taught Spring'99, Spring'00, and Spring'01.

Computer Design Project

Undergraduate design project course for students concentrating in computer engineering. Taught Spring'01, Spring'02, Spring'03, and Spring'04.

High Performance Microprocessor-Based Systems

Graduate course covering advanced research topics in high performance microarchitecture, and the microarchitecture of current industry designs. Developed and taught Fall'96. Taught Fall'97, Fall'98, Fall'99, Fall'00, and Fall'02.

Reconfigurable Microprocessor Design

Graduate research-oriented course in reconfigurable systems. Taught Spring'97.

Professional Activities

Advisory Board Member: IEEE Micro (2011-present)

Editor-In-Chief: IEEE Micro (2007-2010)

Associate Editor: IEEE Micro (2004-2006)

Associate Editor: IEEE Computer (2012-present)

Associate Editor: ACM Transactions on Architecture and Code Optimization (2005-2014)

Associate Editor: Journal of Circuits, Systems, and Computers (1999-2008)

Special Issue Guest Editor (with P. Bose and D. Marculescu): *Power and Complexity Aware Design*, IEEE Micro, September/October, 2003

Workshop Co-organizer: *Workshop on Emerging Technologies for Interconnects*, Sponsored by the National Science Foundation (2012)

Workshop Co-organizer: *Workshop on the Interaction Between Nanophotonics and Systems*, held at the International Symposium on Microarchitecture (2010)

Workshop Co-organizer: *Workshop on Quality-Aware Design*, held at the International Symposium on Computer Architecture (2008)

Workshop Co-organizer: *Workshop on Complexity-Effective Design*, held at the International Symposium on Computer Architecture (2000-2006)

Tutorial Co-organizer: *Tutorial on Partially Asynchronous Microprocessors*, held at the International Symposium on Computer Architecture (2003) and the International Symposium on Microarchitecture (2002)

Tutorial Co-organizer: *Tutorial on Minimally Clocked Microprocessor Design*, held at the International Conference on Supercomputing (2002)

IEEE Computer Society Fellows Evaluation Committee (2012)

IEEE Harry S. Goode Award Committee (2016-present)

IEEE/ACM Eckert-Mauchly Award Committee (2010-2012)

ACM SIGARCH/IEEE CS TCCA Outstanding Dissertation Award Committee (2020-present)

Executive Committee: IEEE Technical Committee on Computer Architecture (2015-2017)

Steering Committee: International Symposium on High Performance Computer Architecture (2015-2017)

Steering Committee: International Symposium on Microarchitecture (2010-2018)

Steering Committee: International Symposium on Performance Analysis of Systems and Software (2008-2018)

General co-Chair: International Symposium on Microarchitecture (2009)

General Chair: International Symposium on Performance Analysis of Systems and Software (2007)

Program Committee Chair: International Symposium on Computer Architecture (2015)

Program Committee Chair: International Symposium on Performance Analysis of Systems and Software (2006)

Program Committee Chair: IEEE Micro Top Picks from Microarchitecture Conferences (2004)

Program Committee: IEEE Micro Top Picks from Computer Architecture Conferences (2019, 2018, 2013, 2007, 2006, 2005)

Program Committee: International Symposium on Computer Architecture (2018, 2014, 2012, 2010, 2007, 2006, 2005, 2004)

Program Committee: International Symposium on High Performance Computer Architecture (2016, 2013, 2011, 2009, 2005, 2004)

Program Committee: International Symposium on Microarchitecture (2012, 2008, 2006, 2004)

Program Committee: Workshop on the Intersection of Computer Architecture and Reconfigurable Logic (2012, 2010)

Program Committee: International Conference on Computer Design (2011, 2010)

Program Committee: International Conference on Green Computing (2011)

Program Committee: Workshop on Energy-efficient Computing for a Sustainable World (2011)

Program Committee: Workshop on Optimizations for DSP and Embedded Systems (2011)

Program Committee: Workshop on Chip Multiprocessor Memory Systems and Interconnects (2010, 2008)

Program Committee: International Conference on High Performance and Embedded Architectures and Compilers (2009)

Program Committee: Workshop on Biomedicine in Computing: Systems, Architectures, and Circuits (2009)

Program Committee: International Forum on Next-Generation Multicore/Manycore Technologies (2008)

Program Committee: Reconfigurable and Adaptive Architecture Workshop (2006)

Program Committee: Workshop on Architectures for Gigascale Integration (2006)

Program Committee: International Workshop on Advanced Low Power Systems (2006)

Program Committee: International Symposium on High Performance Computer Architecture, Special Session on Industrial Perspectives on Challenges for Next-Generation Computer Systems (2005)

Program Committee: International Symposium on Parallel Architectures and Compilation Techniques (2005, 1997)

Program Committee: International Symposium on Low Power Electronics and Design (2005)

Program Committee: International Symposium on Performance Analysis of Systems and Software (2005, 2003, 2001)

Program Committee: Workshop on Power-Aware Computing Systems (2004, 2003, 2002, 2000)

Program Committee: Workshop on Power Management for Real-Time and Embedded Systems (2001)

Program Committee: Workshop on Performance Analysis and its Impact on Design (1998)

Proposal Review Panelist: National Science Foundation CAREER, Computer Systems Architecture, Computer Systems Research, Exploiting Parallelism and Scalability, and Embedded and Hybrid Systems programs

Proposal Reviewer: National Science Foundation Design Automation and Experimental Systems programs

Proposal Reviewer: California MICRO program

Reviewer of numerous journal and conference papers each year

Research group generated problem sets for the 3rd edition of *Computer Organization and Design: The Hardware/Software Interface* by D. Patterson and J. Hennessy

Research group generated the Chapter 2 Alpha instruction set statistics for the 3rd edition of *Computer Architecture: A Quantitative Approach* by J. Hennessy and D. Patterson

University/Departmental Service (Cornell)

- 2019-20 Associate Director
 - Robotics Faculty Recruiting Committee
 - Faculty Advisor (Class of '21)
 - Faculty Mentor
- 2018-19 ECE ABET Coordinator
 - Chair, Policy Committee
 - Curriculum and Standards Committee
 - Computer Engineering Faculty Recruiting Committee
 - Faculty Advisor (Class of '21)
 - Faculty Mentor
- 2017-18 ECE ABET Coordinator
 - Chair, Policy Committee
 - Chair, Director Search Committee
 - Computer Engineering Faculty Recruiting Committee
 - Faculty Advisor (Class of '21)
 - Faculty Mentor
- 2016-17 ECE ABET Coordinator
 - Policy Committee
 - Computer Engineering Faculty Recruiting Committee
 - Faculty Advisor (Class of '17)
 - Faculty Mentor
- 2015-16 Associate Director
 - ECE ABET Coordinator
 - Computer Engineering Faculty Recruiting Committee
 - College Curriculum Governing Board

Teaching Excellence Institute Faculty Advisory Council
Faculty Advisor (Class of '17)
Faculty Mentor

2014-15 Associate Director
College Curriculum Governing Board
Teaching Excellence Institute Faculty Advisory Council
Faculty Recruiting Committee
Faculty Advisor (Class of '17)
Faculty Mentor

2013-14 Associate Director
College Curriculum Governing Board
Teaching Excellence Institute Faculty Advisory Council
Faculty Advisor (Class of '17)
Faculty Mentor

2012-13 Chair, Policy Committee
Teaching Excellence Institute Faculty Advisory Council
Faculty Advisor (Class of '13)
Faculty Mentor

2011-12 Faculty Advisory Board on Information Technology
Teaching Excellence Institute Faculty Advisory Council
Chair, Policy Committee
Faculty Advisor (Class of '13)
Faculty Mentor

2010-11 Faculty Advisory Board on Information Technology
Teaching Excellence Institute Faculty Advisory Council
Policy Committee (Chair Spring'11)
Faculty Advisor (Class of '13)
Faculty Mentor

2009-10 Faculty Advisory Board on Information Technology
Teaching Excellence Institute Faculty Advisory Council
Curriculum and Standards Committee
Master's of Engineering Committee
Faculty Advisor (Class of '13)
Faculty Mentor

2008-09 Faculty Advisory Board on Information Technology
Teaching Excellence Institute Faculty Advisory Council
Computer Engineering and Circuits Recruiting Committee
Curriculum and Standards Committee
Faculty Advisor (Class of '09)

- Faculty Mentor
- 2007-08 Faculty Advisory Board on Information Technology
Teaching Excellence Institute Faculty Advisory Council
Building Committee
Faculty Advisor (Class of '09)
Faculty Mentor
- 2006-07 Chair, Computer Engineering and Circuits Recruiting Committee
Graduate Committee
Nominating Committee
Faculty Advisor (Class of '09)
Faculty Mentor
- 2005-06 Chair, Computer Engineering and Circuits Recruiting Committee
Graduate Committee
Nominating Committee
Faculty Advisor (Class of '09)
Faculty Mentor
Co-organizer of the ECE colloquium

University/Departmental Service (Rochester)

- 2003-04 Chair, Graduate Admissions Committee
Faculty Recruiting Committee
Department Resource Committee
Advisor, Class of '06
Faculty Mentor
- 2002-03 Chair, Graduate Admissions Committee
Department Resource Committee
Advisor, Class of '06
Faculty Mentor
- 2001-02 Faculty Senate Research Policy Committee
Chair, Graduate Admissions Committee
Undergraduate Committee
Faculty Recruiting Committee
Advisor, Class of '06
Faculty Mentor
- 2000-01 Faculty Senate Research Policy Committee
Graduate Admissions Committee
Undergraduate Committee
Faculty Recruiting Committee
ECE Webmaster

Advisor, Class of '01

1999-2000 Undergraduate Committee
Faculty Recruiting Committee
ECE Faculty Secretary
ECE Webmaster
Advisor, Class of '01
Orientation Program Reviewer

1998-99 Undergraduate Committee
Faculty Recruiting Committee
ECE Faculty Secretary
ECE Webmaster
Advisor, Class of '01

1997-98 Graduate Admissions Committee
ECE Faculty Secretary
ECE Webmaster
Advisor, Class of '01
Orientation Program Reviewer

1996-97 Graduate Admissions Committee
ECE Faculty Secretary