The University of Michigan Regents Communication

Request for Action

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

Scott A. Mahlke, Ph.D., Claude E. Shannon Professor of Engineering Science and professor of electrical engineering and computer science in the College of Engineering, retired from active faculty status on August 24, 2026.

Professor Mahlke received his B.S. (1988) in computer engineering and his M.S. (1991) and Ph.D. (1997) in electrical and computer engineering from the University of Illinois at Urbana-Champaign. He joined Hewlett-Packard Laboratories as a research scientist in 1995. Professor Mahlke joined the University of Michigan faculty as an assistant professor in 2001, and was promoted to associate professor in 2006, and professor in 2011.

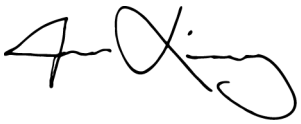
Professor Mahlke's research has focused on the development of compilers, application-specific processors, computer microarchitecture, and embedded systems with a focus on overcoming challenges in performance, power consumption, and reliability. He chaired or co-chaired the dissertation of 34 Ph.D. students. In 2015, Professor Mahlke co-founded and served as chief science officer of Parabricks, acquired by NVIDIA in 2020, to apply graphics processing units to the problem of genomic analysis.

Professor Mahlke served as director of the Advanced Computer Architecture Laboratory from 2011–2014, as associate chair of the computer science and engineering division from 2014–2017, and as director of the Computer Engineering Laboratory from 2018–2024.

Professor Mahlke coauthored over 200 conference and journal papers, and is named on over 20 patents. In 2014, he earned a Micro Test of Time award for his groundbreaking 1992 paper on the Hyperblock, a compiler structure for managing predicated execution in high-performance processors. He received an NSF CAREER Award in 2004 and was recognized by the IEEE Computer Society for his career contributions with the B. Ramakrishna Rau Award in 2022. Professor Mahlke is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the Association for Computing Machinery (ACM).

The Regents now salute this distinguished faculty member by naming **Scott A. Mahlke, Claude E. Shannon Professor Emeritus of Engineering Science and professor emeritus of electrical engineering and computer science.**

Respectfully submitted:



Jon Kinsey
Vice President and Secretary of the University

November 2026