

Computer Science and Telecommunications Board

Committee

Laura M. Haas

Chair

Laura Haas joined the University of Massachusetts Amherst in August 2017 as Dean of the College of Information and Computer Sciences, after a long career at IBM, where she was accorded the title IBM Fellow in recognition of her impact. At the time of her retirement from IBM, she was Director of IBM Research's Accelerated Discovery Lab (2011-2017), after serving as Director of Computer Science at IBM's Almaden Research Center from 2005 to 2011. She had worldwide responsibility for IBM Research's exploratory science program from 2009 through 2013. From 2001-2005, she led the Information Integration Solutions architecture and development teams in IBM's Software Group. Previously, Dr. Haas was a research staff member and manager at Almaden. She is best known for her work on the Starburst query processor, from which DB2 LUW was developed, on Garlic, a system which allowed integration of heterogeneous data sources, and on Clio, the first semi-automatic tool for heterogeneous schema mapping. She has received several IBM awards for Outstanding Innovation and Technical Achievement, an IBM Corporate Award for information integration technology, the Anita Borg Institute Technical Leadership Award, the IEEE Computer Society Computer Pioneer Award, and the ACM SIGMOD Edgar F. Codd Innovation Award. Dr. Haas was Vice President of the VLDB Endowment Board of Trustees from 2004-2009 and served on the board of the Computing Research Association from 2007-2016 (vice chair 2009-2015); she currently serves as chair of the National Academies Computer Science and Telecommunications Board (2013-2020). She is an ACM Fellow, a member of the National Academy of Engineering, and a Fellow of the American Academy of Arts and Sciences.

David Danks

Member

David Danks is Professor of Data Science & Philosophy and affiliate faculty in Computer Science & Engineering at University of California, San Diego. Danks has examined the ethical, psychological, and policy issues around AI and robotics in transportation, healthcare, privacy, and security. He has also done significant research in computational cognitive science, and developed multiple novel causal discovery algorithms for complex types of observational and experimental data. Danks is the recipient of a James S. McDonnell Foundation Scholar Award, as well as an Andrew Carnegie Fellowship. He currently serves on multiple advisory boards, including the National AI Advisory Committee. He received an A.B. in Philosophy from Princeton University, and a Ph.D. in Philosophy from University of California, San Diego.

Charles Isbell

Member

Charles Isbell currently serves as Provost at the University of Wisconsin–Madison. Previously, he was the John P. Imlay Dean of the College of Computing at Georgia Tech University. Dr. Isbell has played a prominent role in educational initiatives, holding leadership positions at both Georgia Tech's College of Computing, where he was Senior Associate Dean for Academic Affairs, and on a national scale, co-chairing the Subcommittee on Education for the Computing Research Association. At Georgia Tech, Dr. Isbell was one of the co-leaders of the Threads reform of the undergraduate computing curriculum. Threads was a successful, comprehensive restructuring of the computing curriculum that provided a cohesive, coordinated set of contexts - or threads - for teaching and learning computing skills. The goal of the redesign was to make computing more inclusive, relevant and exciting for a much broader student audience. Dr. Isbell has won numerous teaching awards. Dr. Isbell served on the Georgia Tech Human Resources Diversity Council Steering Committee, the Advisory Board for the Alliance for the Advancement of African American Researchers in Computing and the Executive Committee of the Coalition to Diversify Computing (sponsored by the Computing Research Association, the Association for Computing Machinery and the Association of Computer and Information Science and Engineering Departments at Minority Institutions). He has been a member of the Governing Board of the Institute for African American e-Culture, a panelist for the NSF Workshop on Increasing the Participation of Minorities in the Computing Disciplines and a speaker at the Richard Tapia Celebration of Diversity in Computing. Dr. Charles Isbell received his bachelor's in information and computer science from Georgia Tech, and his MSc and PhD at MIT's AI Lab.

Ece Kamar

Member

Ece Kamar is a Partner Research Area Manager at Microsoft Research Redmond overseeing the research on Human-centered AI. She is also an affiliate faculty at the University of Washington. Her research investigates research problems at the intersection of AI systems, people and our society; exploring how limitations of AI systems lead to concerns around biases, reliability and safety problems, investigating novel ways for AI systems to support people, and finally developing frameworks for human-AI teamwork for complementarity. Ece also serves as the Technical Advisor of Microsoft's company-wide committee on AI, Ethics and Effects in Engineering and Research (AETHER). In her advisory role, she consults product teams at Microsoft on issues around Responsible AI, helps to develop best practices, tools and guidance to support the development of responsible, unbiased and reliable AI systems for the open-world. She has over 60 peer-reviewed publications at the top AI and HCI venues and served in the first Study Panel of Stanford's 100 Year Study of AI (AI100). Dr. Kamar received her PhD in Computer Science from Harvard University.

James F. Kurose

Member

Jim Kurose (NAE) is a Distinguished University Professor in the College of Information and Computer Sciences at the University of Massachusetts Amherst. He has held a number of visiting scientist positions in the US and abroad, including IBM Research, INRIA, and Sorbonne University in France. From 2015 - 2019, Kurose served as Assistant Director at the US National Science Foundation, where he led the Directorate of Computer and Information Science and Engineering (CISE). With an annual budget of nearly \$1B, CISE's mission is to uphold the nation's leadership in scientific discovery and engineering innovation through its support of fundamental research in computer and information science and engineering and transformative advances in cyberinfrastructure. Recently, Jim also served as the Assistant Director for Artificial Intelligence in the US White House Office of Science and Technology Policy (OSTP). Dr. Kurose received his BA in physics from Wesleyan University and his PhD in computer science from Columbia University.

David Luebke

Member

David Luebke is a Vice President of Graphics Research at NVIDIA. Dr. Luebke helped found NVIDIA Research in 2006 after eight years on the faculty of the University of Virginia. Luebke runs a research group focused on computer graphics, generative neural networks, and virtual reality. Luebke is a Fellow of the IEEE and a recent inductee into the IEEE VR Academy; other honors include the NVIDIA Distinguished Inventor award, the IEEE VR Technical Achievement Award, and the ACM Symposium on Interactive 3D Graphics "Test of Time Award". Together with his colleagues, Dr. Luebke has authored a book, created a major museum exhibit, and written over two hundred papers, articles, chapters, and patents. Dr. Luebke received his Ph.D. under Frederick P. Brooks, Jr. at the University of North Carolina in 1998.

Dawn C. Meyerriecks

Member

Dawn Meyerriecks is currently a senior visiting fellow at the MITRE Corporation. She was the former deputy director of the CIA for Science and Technology. As an independent director and board member, and government and commercial technical powerhouse leader, Dawn brings more than 40 years of experience pioneering new products and services and leading transformation for iconic brands around the world, including CIA, AOL, and DoD. She is a recognized expert in delivering entrepreneurial technical capabilities and processes to international markets, leveraging unparalleled stakeholder acumen into strategy, development, integration, and operations. Ms. Meyerriecks received her MS in Computer Science from Loyola Marymount University.

William L. Scherlis

Member

William L. Scherlis is a Professor of Computer Science at Carnegie Mellon University and Special Advisor to the Software Engineering Institute, a DoD FFRDC at CMU. He recently served as director of DARPA's Information Innovation Office (I2O) leading program managers in the development of programs in cybersecurity, artificial intelligence, secure software, and information operations. At Carnegie Mellon (CMU) he served for more than a decade as head of the Software and Societal Systems Department, which hosts research and educational programs related to software development, security and privacy, IoT and mobility, AI engineering, social network analysis, and related topics. He founded the CMU PhD program in Software Engineering and led it for its first decade. His research relates to software assurance, cybersecurity, software analysis, and assured safe concurrency. He has led several large research projects including the CMU National Security Agency Science of Security Lablet and the CMU/NASA High Dependability Computing Project. He served as program chair for technical conferences including ACM Foundations of Software Engineering (FSE) and ACM Partial Evaluation and Program Manipulation (PEPM). Scherlis has led multiple national studies including the National Academies study that in 2010 produced the report Critical Code: Software Producibility for Defense. He has testified before Congress on the federal AI workforce, on federal software sustainment, on computing technology and innovation, and on roles for a Federal CIO. He is a Life Fellow of the IEEE and a Lifetime National Associate of the National Academy of Sciences. Dr. Scherlis received an AB magna cum laude from Harvard University in applied mathematics and a PhD in computer science from Stanford University, with an intervening year in the Department of Artificial Intelligence at the University of Edinburgh as a John Knox Fellow.

Henning Schulzrinne

Member

Henning Schulzrinne holds the Levi Professorship in Computer Science at Columbia University. Prior to his current position, he had a distinguished career, including roles at AT&T Bell Laboratories and GMD-Fokus in Berlin. He subsequently joined the faculty at Columbia University, where he served as the Chair of the Department of Computer Science. He also held significant roles at the US Federal Communications Commission (FCC) from 2010 to 2017, where he was an Engineering Fellow, Technology Advisor, and Chief Technology Officer. In 2019-2020, he served as a Technology Fellow in the US Senate, and in 2022, he became a Broadband Advisor at NTIA. Dr. Schulzrinne is highly recognized in his field, being a Fellow of both ACM and IEEE. He has received several prestigious awards and honors, including the New York City Mayor's Award for Excellence in Science and Technology, the VON Pioneer Award, TCCC service award, IEEE Internet Award, IEEE Region 1 William Terry Award for Lifetime Distinguished Service to IEEE, and the UMass Computer Science Outstanding Alumni recognition. Additionally, he is a member of the Internet Hall of Fame and has been granted an honorary doctorate from the University of Oulu. He has also received the ACM SIGCOMM Award. Dr. Schulzrinne earned his PhD from the University of Massachusetts in Amherst.

Nambirajan Seshadri

Member

Nambirajan Seshadri (NAE) is a professor of practice at the Department of Electrical and Computer Engineering, Jacobs School of Engineering, University of California, San Diego. After completing his Ph.D. degree, Seshadri worked at AT&T Bell Laboratories as a member of technical staff and as head of communications research at AT&T Shannon Labs for more than 13 years. After that, he worked in Broadcom for 16 years. In Broadcom, he served as the chief technology officer (CTO) of mobile and wireless business from 1999 to 2014 and senior vice president and CTO of Broadband and Connectivity Group from 2015 to 2016. He is a fellow of IEEE, member of the National Academy of Engineering, foreign member of the Indian National Academy of Engineering, distinguished alumnus of National Institute of Technology, Tiruchirappalli and holds about 200 patents, he is a co-recipient of the 1999 IEEE Information Theory Best Paper Award. In 2018, he was awarded the IEEE Alexander Graham Bell Medal. Seshadri completed his bachelor of engineering (B.E.) degree in electronics and communication engineering from Regional Engineering College, Tiruchirappalli (now called as National Institute of Technology, Tiruchirappalli), India, in 1982. He obtained his M.Sc. and Ph.D. in computer and systems engineering from the Rensselaer Polytechnic Institute in 1984.

Kenneth E. Washington

Member

Kenneth Washington (NAE) is Senior Vice President and Chief Technology and Innovation Officer at Medtronic. Dr. Washington joined Medtronic in 2023 and brought with him deep expertise in leading technology development and execution across industries including robotics, consumer products, automotive, and space. Ken inspires teams and pushes them even further in their ability to invent, innovate and create positive market disruptions. He partners closely with teams and leaders around Medtronic to ensure our products and therapies continue to advance the Mission to better serve patients and customers. Prior to joining Medtronic, Ken was Vice President and General Manager of Consumer Robotics at Amazon. Prior to that, he was Chief Technology Officer at Ford Motor Company, overseeing development of the company's technology strategy including next-generation vehicle architectures, controls and automated systems. He also spent seven years at Lockheed Martin in various leadership roles including Chief Technology Officer, Chief Privacy Officer and Vice President, Advanced Technology Center, Lockheed Martin Space Systems Company. Ken is an internationally recognized thought leader on technology and innovation. He was inducted into the National Academy of Engineering in 2020 and was inducted into the Black Engineer Hall of Fame in 2023. Dr. Washington earned a Bachelor of Science, a Master of Science, and a PhD in nuclear engineering from Texas A&M University.

John L. Manferdelli

Ex Officio Member

John Manferdelli, chair of the forum on cyber resilience is an independent consultant. Before that, he was, most recently, Confidential Computing, Incubation Project Leader in the Office of the CTO at VMware. Previously, he was Professor of the Practice and executive director of the Cybersecurity and Privacy Institute at Northeastern University. Immediately prior, Manferdelli was Engineering Director for Production Security Development at Google. Prior to Google, he was a senior principal engineer at Intel Corporation and co-PI (with David Wagner) for the Intel Science and Technology Center for Secure Computing at the University of California at Berkeley. He was also a member of the Information Science and Technology advisory group at DARPA and is a member of the Defense Science Board. Prior to Intel, J Manferdelli was a distinguished engineer at Microsoft and was an affiliate faculty member in computer science at the University of Washington. He was responsible for computer security, cryptography, and systems research, as well as research in quantum computing. At Microsoft, John also worked as a senior researcher, software architect, product unit manager, general manager at Microsoft and was responsible the development of the next-generation secure computing base technologies and the rights management capabilities currently integrated into Windows, for which he was the original architect. He joined Microsoft in February 1995 when it acquired his company, Natural Language Inc., based in Berkeley, California. At Natural Language, Manferdelli was the founder and, at various times, vice president of research and development and CEO. Other positions he has held include staff engineer at TRW Inc., computer scientist and mathematician at Lawrence Livermore National Laboratory, and principal investigator at Bell Labs. He was also an adjunct associate professor at Stevens Institute of Technology. Manferdelli's professional interests include cryptography and cryptographic mathematics, combinatorial mathematics, operating systems, and computer security. He is also a licensed Radio Amateur (AI6IT). Manferdelli has a bachelor's degree in physics from Cooper Union for the Advancement of Science and Art and a PhD in mathematics from the University of California, Berkeley.