

## *Board on Human Systems Integration (BOHSI)*

### *Spring 2023 Webinar*

## Multidisciplinary Collaboration and Technology: How Diverse Groups Work Together

The seminar will focus on aspects of collaboration and technology, with the aim of identifying ways to increase multidisciplinary collaboration and best practices when engaging with diverse communities. The keynote will be given by Dr. Ingrid Nembhard, University of Pennsylvania, with additional speakers including Dr. Eden King, Rice University, Dr. Arvind Karunakaran, Stanford University, Dr. Judy Olson, University of California - Irvine, and Dr. Nathan McNeese, Clemson University. The seminar will be held Tuesday, March 21 from 1 pm to 4 pm Eastern.



**Arvind Karunakaran** is an assistant professor of management science & engineering at Stanford University. His research examines technological change and its consequences for work, organizations, and cross-disciplinary collaboration. He specializes in ethnographic and field-based methods, examining the empirical and theoretical puzzles discovered during fieldwork that existing research cannot fully explain. He complements these methods with comparative-historical analysis of primary archival data and computational analysis of large-corpus of textual data. He is a member of the Center for Work, Technology, and Organization (WTO), the

Stanford Technology Ventures Program (STVP), and a faculty affiliate of the Institute for Human-Centered Artificial Intelligence (HAI). His research is published or forthcoming in *Administrative Science Quarterly*, *Academy of Management Journal*, *Organization Science*, *Research Policy*, and *Journal of the Association for Information Science and Technology*, and recognized with awards from professional associations, including the American Sociological Association, Academy of Management, Association for Information Systems, Industry Studies Association, and Institute for Operations Research and the Management Sciences (INFORMS). He received his Ph.D. from MIT Sloan School of Management.



**Eden King** is the Lynette S. Autrey Professor of Industrial-Organizational (I-O) Psychology at Rice University. Dr. King is pursuing a program of research that seeks to guide the equitable and effective management of diverse organizations. This research— which has yielded over 100 scholarly products and has been featured in outlets such as the *New York Times*, *Good Morning America*, and *Harvard Business Review*— addresses three primary themes: 1) current manifestations of discrimination and barriers to work-life balance in organizations, 2) consequences of such challenges for its targets and their workplaces, and 3) individual and

organizational strategies for reducing discrimination and increasing support for families. In addition to her scholarship, Dr. King has partnered with organizations to improve diversity climate, increase fairness in selection systems, and design and implement diversity training programs. She has served as President of the Society for I-O Psychology and is currently co-Editor of the *Journal of Business and Psychology*. Dr. King received a B.A. in Psychology and an M.A. and Ph.D. in I-O Psychology from Rice University.



**Nathan J. McNeese** is an Assistant Professor and Director of the Team Research Analytics in Computational Environments (TRACE) Research Group within the division of Human-Centered Computing in the School of Computing at Clemson University. Dr. McNeese is also the Director of the university-wide Clemson University Data (Science) Lab. He also holds a secondary appointment in Clemson's Human Factors Institute, is a Faculty Scholar in Clemson's School of Health Research, and is a Watt Family Faculty Fellow. For over 15 years, Dr. McNeese has conducted research mainly focused on teamwork, artificial intelligence (AI), and collaborative technology within a variety of different contexts (command & control, emergency crisis management, and healthcare). His current research interests span human-AI

teaming, human-centered AI, and the development/design of human-centered collaborative tools and systems. He currently serves on multiple international/societal programs and technical committees, in addition to multiple editorial boards including Human Factors. He is a previous Member of the National Academies of Science Panel on Human Factors Science, and a previous member of the Army Research Lab HERD Technical Advisory Board. Dr. McNeese received a Ph.D. in Information Sciences & Technology from The Pennsylvania State University.



**Ingrid M. Nembhard** is the Fishman Family President’s Distinguished Professor, Professor of Health Care Management, and Professor of Management, focusing on Organizational Behavior at The Wharton School of the University of Pennsylvania. Professor Nembhard’s research focuses on how the characteristics of healthcare organizations, their leaders, and staff contribute to their ability to implement new practices, engage in continuous organizational learning, and ultimately improve the quality of care. She uses qualitative and quantitative research methods to examine healthcare delivery from the provider and patient perspectives, and to evaluate organizational performance. She is currently studying leadership and psychological safety in teams, organizational learning from different types of experiences, the use of patient feedback via narratives to drive quality improvement by clinicians and administrators, the contributors to high performance in challenging work environments, and the implementation of care coordination in primary care groups, including the effects on patients and clinicians. Professor Nembhard received her B.A. in Ethics, Politics and Economics, and in Psychology from Yale University, her M.S. in Health Policy and Management from Harvard University School of Public Health, and her Ph.D. in Health Policy and Management, with a concentration in Organizational Behavior from Harvard University through a joint program between Harvard Business School and the Graduate School of Arts and Sciences.



**Judith Olson** is the Bren Professor of Information and Computer Sciences in the Informatics Department at the University of California - Irvine, with courtesy appointments in the School of Social Ecology and the Merage School of Business. Her current work focuses on the details of collaborative writing: visualizing the development of a collaboratively written document, showing who wrote what, and, eventually, detecting when the “voice” changes because of authorship change. For over 20 years, she has researched teams whose members are not collocated, summaries of which are found in her most cited paper, “Distance Matters,” (Olson & Olson, 2000), and in her key theoretical contribution to the book *Scientific Collaboration on the Internet* (Olson, Zimmerman, and Bos, Eds., 2008). Her latest book on this topic is *Working Together Apart* (Olson & Olson, 2014). She is a Fellow of the Association for Computing Machinery and with her husband and colleague, Gary Olson, holds the Lifetime Achievement award from the Special Interest Group in Computer Human Interaction. In 2011, she was awarded the ACM-W Athena Lecture, the equivalent of the Woman of the Year in Computer Science. She received her Ph.D. from the University of Michigan.