Modeling, Measuring, and Mitigating Privacy Risks in Large Biomedical Datasets

A FREE webinar of the ASA Privacy and Confidentiality Committee

Brad Malin

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Register here

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Moderator: Yong Chen, Perelman School of Medicine, University of Pennsylvania

Abstract:

Malin will review how re-identification occurs in large biomedical data sets, how to formalize such threats, and design sociotechnical approaches for mitigation. This talk will draw upon examples from large NIH programs, including the Electronic Medical Records and Genomics Network (eMERGE) and the All of Us Research Program.

Brad Malin is the Accenture Professor of Biomedical Informatics, Biostatistics, and Computer Science at Vanderbilt University and Vice Chair of the Department of Biomedical Informatics at Vanderbilt University Medical Center, where he founded and directs the Health Data Science Center. In 2016, he founded GetPreCiSe, one of the NIH Centers of Excellence on Ethical, Legal, and Social Implications Research. In 2021, he became one of the PIs of the NIH's AIM-AHEAD initiative and in 2022 he became the lead PI for the Ethics and Trustworthy AI core of the NIH-sponsored Bridge2AI Center. He has served as co-chair of the Committee on Access, Privacy, and Security (CAPS) for the All of Us Research Program since its inception and is an appointed member of the Board of Scientific Counselors of the National Center for Health Statistics of the Centers for Disease Control and Prevention (CDC). Among various honors, he is an elected fellow of the National Academy of Medicine and was a recipient of the Presidential Early Career Award for Scientists and Engineers (PECASE) from the White House. He received his Ph.D. in computer science from Carnegie Mellon University.

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