

Shorter Biosketch

Alfred O. Hero III received the B.S. (summa cum laude) from Boston University (1980) and the Ph.D from Princeton University (1984), both in Electrical Engineering. Since 1984 he has been with the University of Michigan, Ann Arbor, where he is the John H. Holland Distinguished University Professor of Electrical Engineering and Computer Science and the R. Jamison and Betty Williams Professor of Engineering. His primary appointment is in the Department of Electrical Engineering and Computer Science and he also has appointments, by courtesy, in the Department of Biomedical Engineering and the Department of Statistics. He is a Section Editor of the SIAM Journal on Mathematics of Data Science and a Senior Editor of the IEEE Journal on Selected Topics in Signal Processing. He is on the editorial board of the Harvard Data Science Review (HDSR) and serves as moderator for the Electrical Engineering and Systems Science category of the arXiv. He was co-General Chair of the 2019 IEEE International Symposium on Information Theory (ISIT) and the 1995 IEEE International Conference on Acoustics, Speech and Signal Processing.

He was founding Co-Director of the University's Michigan Institute for Data Science (MIDAS) (2015-2018). From 2008-2013 he held the Digiteo Chaire d'Excellence at the Ecole Supérieure d'Electricité, Gif-sur-Yvette, France. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the Society for Industrial and Applied Mathematics (SIAM). Several of his research articles have received best paper awards. Alfred Hero was awarded the University of Michigan Distinguished Faculty Achievement Award (2011), the Stephen S. Attwood Excellence in Engineering Award (2017), and the H. Scott Fogler Award for Professional Leadership and Service (2018). He received the IEEE Signal Processing Society Meritorious Service Award (1998), the IEEE Third Millennium Medal (2000), the IEEE Signal Processing Society Technical Achievement Award (2014), the Society Award from the IEEE Signal Processing Society (2015) and the Fourier Award from the IEEE (2020). Alfred Hero was President of the IEEE Signal Processing Society (2006-2008) and was on the IEEE Board of Directors (2009-2011) where he served as Director of Division IX (Signals and Applications). From 2011 to 2020 he was a member and Chair (2017-2020) of the Committee on Applied and Theoretical Statistics (CATS) of the US National Academies of Science.

Alfred Hero's recent research interests are in high dimensional spatio-temporal data, multi-modal data integration, statistical signal processing, and machine learning. Of particular interest are applications to social networks, network security and forensics, computer vision, and personalized health.