

IACIS 2026 Computer Educator of the Year

Dr. Stuart E. Madnick



Dr. Stuart E. Madnick is the John Norris Maguire (1960) Professor of Information Technology, Emeritus, in the MIT Sloan School of Management; Professor of Engineering Systems, in the MIT School of Engineering; and the Founding Director of *Cybersecurity at MIT Sloan: the Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity*. His involvement in cybersecurity research goes back to 1979 when he co-authored the book *Computer Security*, one of the first books on this subject. Madnick holds a BS degree in Electrical Engineering, an MBA in

Management, and a PhD in Computer Science from MIT and has been a faculty member at the MIT Sloan School of Management since 1972. In addition to cybersecurity, he has broad expertise in software engineering, database technology, data quality, software project management, and the strategic use of information technology, and their applications to business, as reflected in more than 8 books, 130 referred journal papers and 180 referred conference papers. These have led to over 15,000 Citations, h-index of 56 and i10-index of 210. He has received multiple awards. A recent one was for "The Importance of Board Member Actions for Cybersecurity Governance and Risk Management" as one of the five Best Information Systems Publications for the year, awarded by the Association for Information Systems in December 2024. In addition to his research work in academia, he has had extensive experience in the development of information systems for industry, such as a key designer and developer of projects including IBM's VM/370, IBM's Script/370, and Lockheed's DIALOG. He has also co-founded five high-tech firms. He has devoted much of his energy to being an educator. Besides teaching generations of MIT students, he has been a visiting professor at 13 other universities, as well as teaching in multiple open enrollment Executive Education programs. He has also been a mentor to many PhD students who went on to become successful faculty. He served as the head of MIT's Information Technology faculty Group for more than 25 years, during which time it was consistently rated #1 in the nation. Probably his biggest impact on education has been through his pedagogy that has been widely adopted by other educators. He developed the Little Man Computer (LMC)¹ model to teach basic computer concepts in 1965. His book on *Operating Systems* was the most widely used for almost a decade. He and his colleagues helped develop the field of data quality and defined the Chief Data Officer (CDO) profession via papers such as, "A Cubic Framework for the Chief Data Officer: Succeeding in a World of Big Data"² Most recently he has developed extensive educational materials about the managerial aspects of cybersecurity, both for students as well as executives. As an example, the papers, "A Systematic Study of the Control Failures in the Equifax Cybersecurity Incident"³ and "A systematic Analysis of the Capital One Data Breach: Critical Lessons Learned"⁴ (the latter paper has been downloaded over 130,000 times so far) are very popular and insightful case studies.

¹ https://en.wikipedia.org/wiki/Little_Man_Computer

² <https://aisel.aisnet.org/misqe/vol13/iss1/6/>

³ <https://aisel.aisnet.org/misqe/vol20/iss2/4/>

⁴ <https://dl.acm.org/doi/10.1145/3546068?ref=justindustrious.com>