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[Back to List](#)

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[Direct Link to this Page](#)

Professor Louis D. Braidà is a principal investigator in the Research Laboratory of Electronics (RLE) at the Massachusetts Institute of Technology (MIT). He received the B.E.E from The Cooper Union in 1964, and the S.M. and Ph.D in electrical engineering from MIT in 1965 and 1969 respectively.

Professor Braidà is internationally known for his research in the areas of intensity perception, the characterization of hearing impairments, and aids for the deaf. Using modern communication theory and computer-based techniques, he studies auditory behavior transcending sensory levels of traditional psychoacoustics. He has quantitatively analyzed such issues as the functional attributes of short-and long-term auditory memory and its relation to speech reception. Professor Braidà has developed a theoretical model that describes auditory and visual cues so that when a speaker's voice is heard and their face can be seen. This model has applications of intermodal integration: for example, the design can be used to improve hearing aids.

Keywords

speech and hearing sciences, hearing aid research, sensorineural hearing impairment, speech production, speech reception capacity, hearing aid device development

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