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A History of Binaural Interaction Modeling - Walks with Jens Blauert

H Steven Colburn, Suzanne Carr and Rui Wan
44 Cummington St., Boston, MA 02215, USA

Jens Blauert has been cut an impressively wide path through diverse areas of binaural and spatial hearing. He has consistently integrated viewpoints based on empirical results, intuitive interpretations, and mathematical and computational models of binaural interaction and spatial hearing. This talk focuses on the development of ideas about binaural interaction as represented in quantitative models and the strong influence that Blauert exerted on these models. These influences start with simple models of the extraction and use of interaural time and level differences, include mechanisms that incorporate complex interactions of these differences, and lead to models that are appropriate for the interpretation of complex acoustic scenes. Finally, some current modeling activities will be outlined and related to these historical developments. [Work supported by the US National Institutes of Health DC00100.]