

# Sophia University

## 音声コミュニケーション講演会

# We Speak in Order to Be Heard

Speaker: Dr. Hynek Hermansky

Visiting Faculty at Google Research Japan

Julian S. Smith Professor Emeritus at the Johns Hopkins University

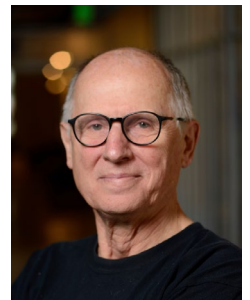
Date: Dec. 12<sup>th</sup>, 2022 (Mon.) / Time: 15:30–17:00

Place: Sophia University, Room: 3-347

Language: English

※要事前申し込み

**Profile:** Dr. Hynek Hermansky received the Dr. Eng. Degree from the University of Tokyo, and Dipl. Ing. Degree from Brno University of Technology, Czech Republic. He is now a Visiting Faculty at Google Research Japan. He is also the Julian S. Smith Professor Emeritus of Electrical Engineering. From 2012 until 2022 he was the Director of the Center for Language and Speech Processing at the Johns Hopkins University in Baltimore, Maryland and a Research Professor at the Brno University of Technology, Czech Republic. He is a Life Fellow of the Institute of Electrical and Electronic Engineers (IEEE) IEEE, and a Fellow of the International Speech Communication Association (ISCA), was twice an elected Member of the Board of ISCA, a Distinguished Lecturer for ISCA and for IEEE, is the recipient of the 2013 ISCA Medal for Scientific Achievement and the 2020 IEEE James L. Flanagan Speech and Audio Engineering Award.



**Abstract:** We argue that human speech evolved over millennia to effectively use properties of evolutionary much older hearing. Some relevant perceptual experiments from a literature supports this notion. Further, the use of speech for deriving data-guided features yield algorithms, which are consistent with human hearing. Finally, new generation of automatic speech recognition techniques is shown to be following the proposed scheme.

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