



“Challenges in Recognition of Broadcast Media”

(放送メディア認識におけるチャレンジ)

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NITech Frontier Research Institute for Information Science

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場所: 4号館2階会議室3

対象: 一般、大学生、教員



The University Of Sheffield.



Abstract:

Speech classification technologies such as speech recognition are often purpose built for a specific task. This approach allowed to make significant progress in tasks such as recognition of broadcast news or telephone conversation, driving error rates down to practically useful levels. However, often these recognition systems do not perform well on other tasks - generalisation is poor. Broadcast media recognition is an example where many different attributes appear, with news alongside drama or sports content. We illustrate the challenges on a range of tasks: diarisation, alignment and transcription and present an approach to build an unsupervised taxonomy of media data and present methods and systems that can adapt acoustic and language models to the diverse data.

About Speaker:

Thomas Hain is Professor for Speech and Audio Technology at the University of Sheffield, UK, and a member of the Speech and Hearing and Machine Learning research groups. He holds a 'Dipl.-Ing' in Electrical and Communication Engineering from the University of Technology, Vienna, and a PhD in Information Engineering from Cambridge University. He joined Philips Speech Processing in 1994, where he left as Senior Technologist. He moved to the Cambridge University Engineering Department in 1997 and was then appointed to Lecturer(2001). Follow-on stages were a move to Sheffield University (2004), Lead of Machine Intelligence for Natural Interfaces group (2009), Professor (2013), Head of Speech and Hearing Research group (2016) and Head of the Voicebase Centre for Speech and Language Technology (2018). Prof. Hain is active in several editorial and chairmanship roles, including Technical Chair of Interspeech 2019, and has lead more than 20 research projects. His research interests are machine learning methods that can operate with real world data, with emphasis on recognition processes.

本講演は博士前期・博士後期「特別演習」認定講義となりますので、出席の上、必要な条件を満たした場合は、以下の科目の認定要件に加算されます。【学生証持参】

- ・材料・エネルギー特別演習1, 材料・エネルギー特別演習2
- ・情報・社会特別演習1, 情報・社会特別演習2
- ・材料・エネルギー先進特別演習1, 材料・エネルギー先進特別演習2
- ・情報・社会先進特別演習1, 情報・社会先進特別演習2