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영문 강연제목: Constructing an Auscultation Database using Deep Learning

Abstract

Auscultation sounds, especially respiratory sounds, provide crucial insights into various health conditions. However, accurate interpretation requires seasoned expertise. With the advent of artificial intelligence, there is growing interest in leveraging deep learning for comprehensive analysis and automatic detection of anomalies in auscultation data. One major impediment is the limited availability of well-labeled public datasets for AI training. The establishment of a comprehensive auscultation database can significantly contribute to AI model development. This presentation will discuss preliminary efforts towards building such a database, with an emphasis on the automatic detection of respiratory cycles.

Brief Biosketch

- (2011.08) Ph.D. Industrial Engineering (Mathematical Optimization & Operations Research Lab), Korea University, Seoul, Korea
- (2012.03~2015.01) Postdoctoral Researcher, Bioinformatics Institute (Bio & Health Informatics Lab), Seoul National University, Seoul, Korea
- (2015.02 ~ 2020.07) Research Professor, Division of Clinical Bioinformatics, Biomedical Research Institute, Seoul National University Hospital, Seoul, Korea
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