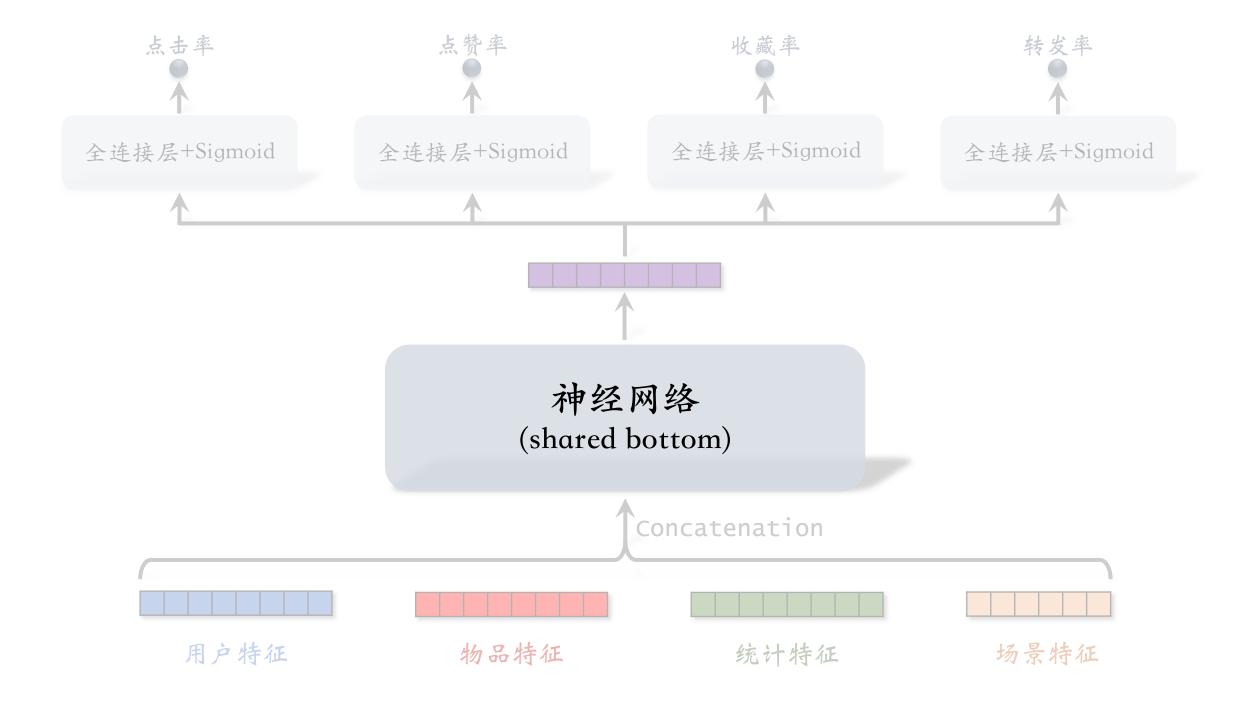
# LHUC网络结构

王树森





#### Learning Hidden Unit Contributions (LHUC)

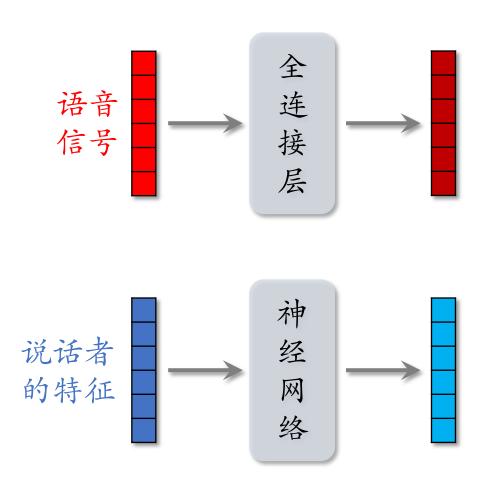
- LHUC 起源于语音识别 [1]。
- •快手将LHUC应用在推荐精排[2],称作PPNet。

#### 参考文献:

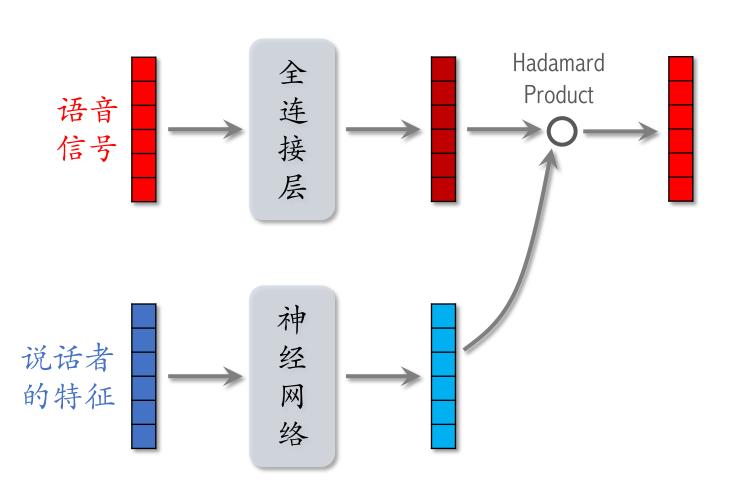
- 1. Pawel Swietojanski, Jinyu Li, & Steve Renals. Learning hidden unit contributions for unsupervised acoustic model adaptation. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 2016.
- 2. 快手落地万亿参数推荐精排模型,2021。链接: https://ai.51cto.com/art/202102/644214.html

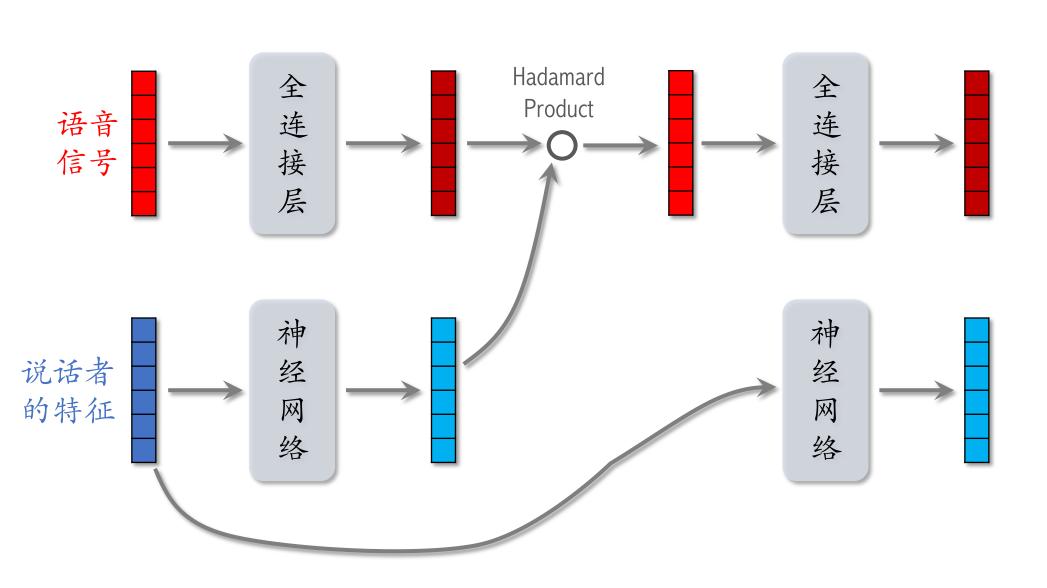
语音 信号

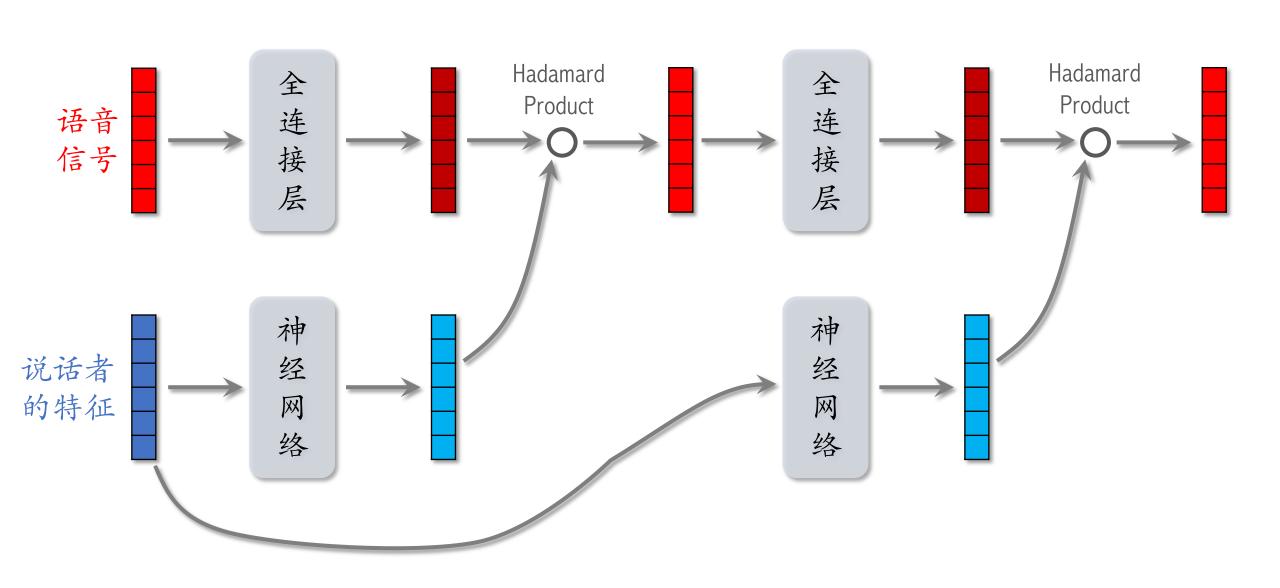
说话者 的特征

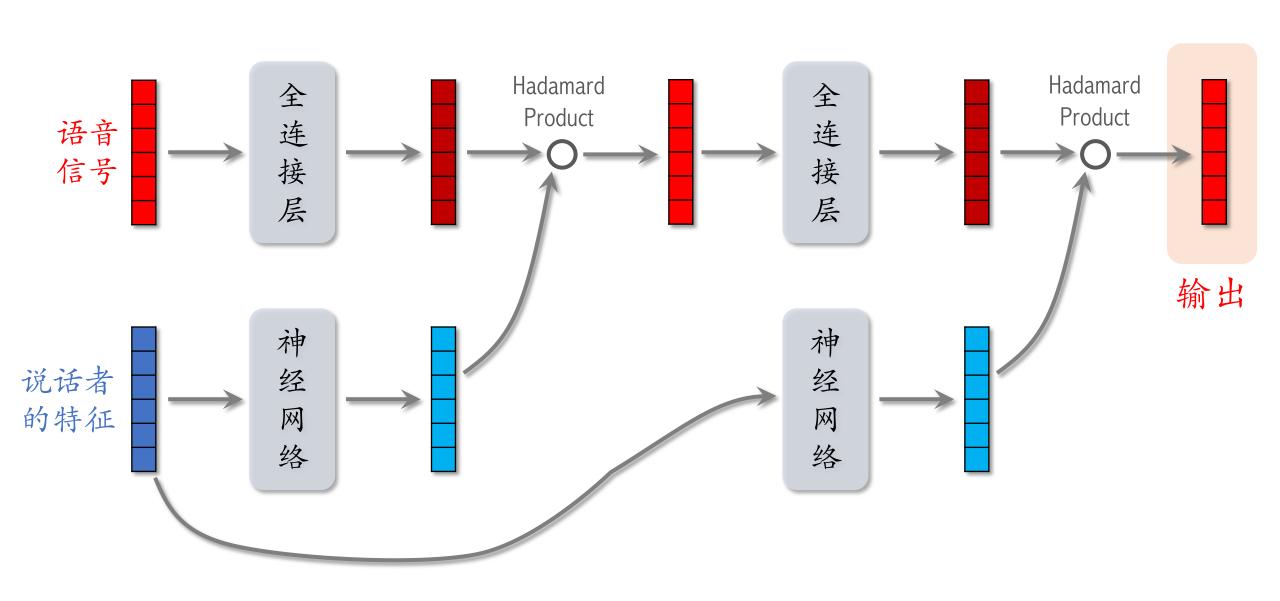


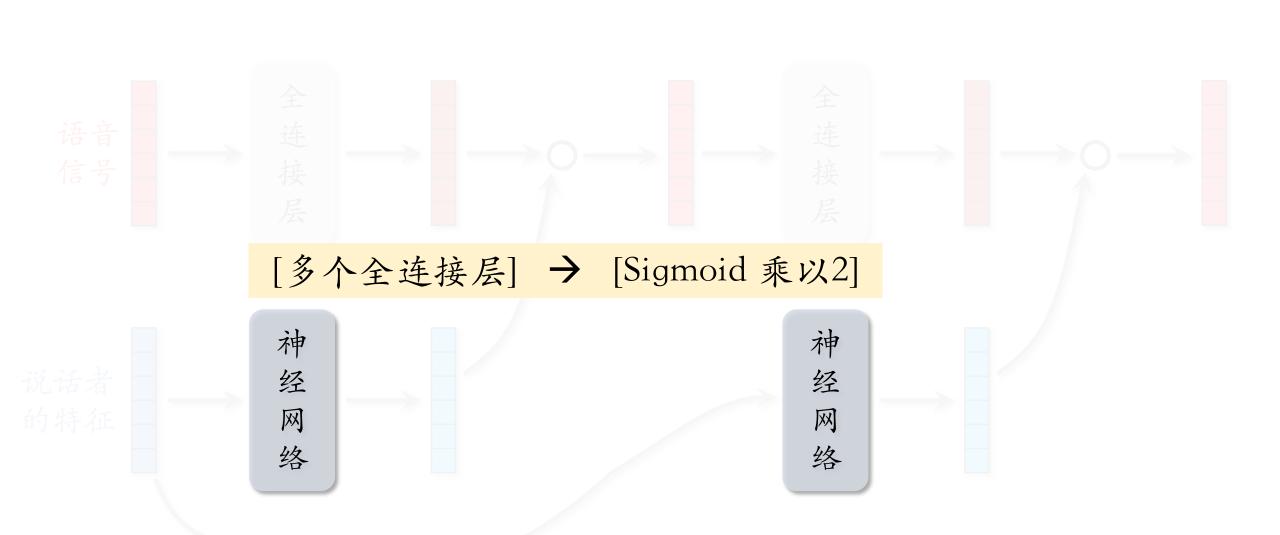
[多个全连接层]→[Sigmoid 乘以2]

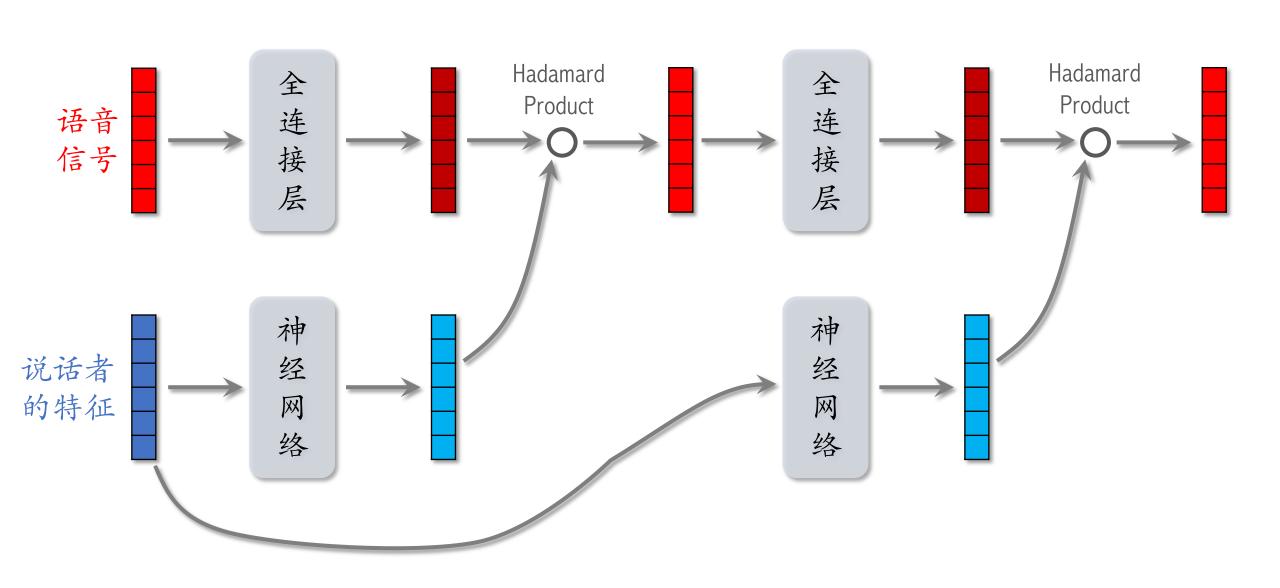




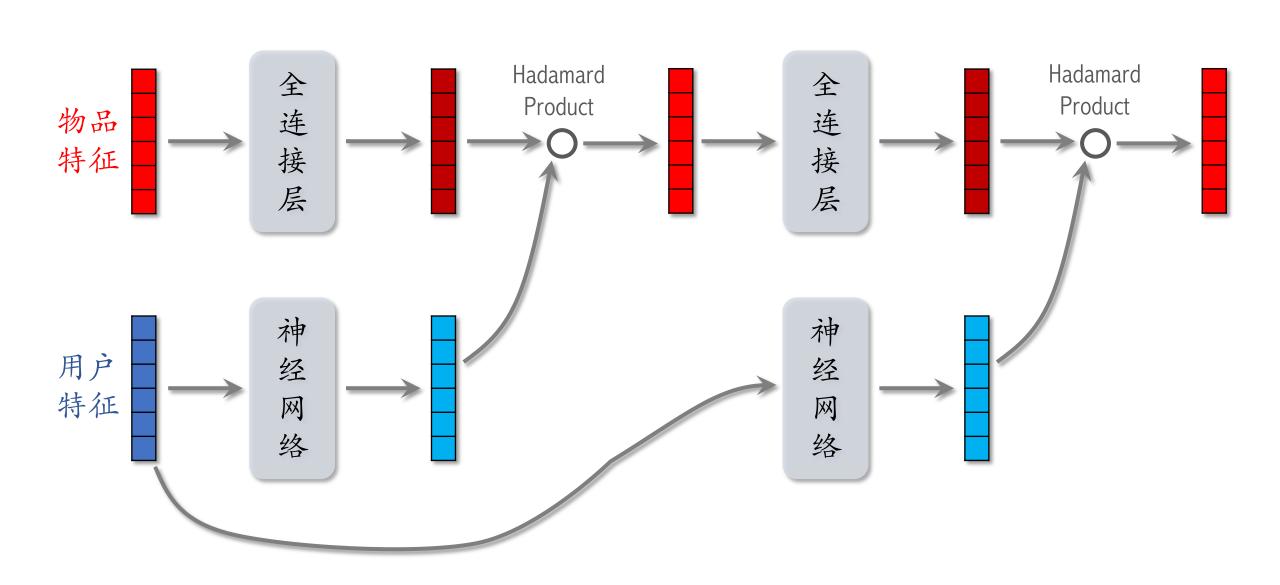








### 推荐系统排序模型中的 LHUC



#### Thank You!