Workshop Structure for Hands-on Speaker Extraction in HRI - SPRING Project Edition

1. **Introduction to HRI and Speech Processing (10 minutes)**
    - Brief overview of HRI and its relevance to robotics within the context of the SPRING project of HORIZON 2020.
    - Introduction to speech processing in HRI and the importance of speaker extraction.
    - Overview of the hands-on activity: recording speech samples and extracting voices on participants' laptops.
2. **Basics of Speaker Extraction (10 minutes)**
    - Explanation of key concepts in speaker extraction.
    - Overview of common techniques and algorithms used.
    - Introduction to the process of recording speech samples on laptops.
3. **Hands-on Session: Recording Speech Samples (20 minutes)**
    - Provide instructions for participants to record their own speech samples on their laptops.
    - Allow time for participants to record their speech samples.
4. **Hands-on Session: Extracting Voices (30 minutes)**
    - Provide participants with sample code or tools for voice extraction on their laptops.
    - Guide participants through the process of extracting voices from their recorded speech samples using the provided model.
5. **Evaluation and Discussion (10 minutes)**
    - Encourage participants to evaluate the effectiveness of their voice extraction.
    - Facilitate a discussion on challenges encountered and potential contributions to the SPRING project's objectives.
    - Discuss potential applications of voice extraction in HRI research.
6. **Conclusion (10 minutes)**
    - Summarize key takeaways from the workshop, emphasizing their relevance to the SPRING project and its goals.
    - Provide additional resources for further learning.