

All Hands Meeting Summary, 4th Dec, at Stirling

- Specific actions from the meeting, from the morning's discussions, the consensus was that:

- i) we should initially focus on data that is visually clean but acoustically noisy
- ii) that we should be careful in considering a scenario we're trying to address before collecting data -
- for this we need to find a setting which is likely to benefit most from visual input (perhaps speech in speech backgrounds?);
- iii) we shouldn't initially be overly concerned with 'real time' issues that can be solved by optimisation and h/w implementation, on the other hand, we should distinguish between systems that are causal from those that need to see into the future. In relation to the latter there was some discussion about broader 'off-line' application domains: e.g. offline AV enhancement of broadcast signals. Use of Skype video conversations/environment is another interesting possibility (kindly proposed by Peter), with significantly more lenient latency requirements. (Andrew/Ricardo to follow up)

- Recording data. Another important point that Peter made was that hearing aid microphone placement is quite specific (i.e. on the head and behind the ear) so we may need to give this consideration in data collection. There may be impulse response recordings that have been measured for hearing devices that we may be able to use in order to simulate noisy signals, i.e. by remixing. Or maybe it is possible to record data directly through devices with Phonak's cooperation? This is probably something we need to discuss further with Peter. (Ricardo//Andrew to follow up)

- Hearing aid challenge. Bill suggested that the hearing aid evaluation challenge is something that IHR have been discussing with Simon King at Edinburgh. Their plan was for standard audio-only evaluation. If we want to make an AV challenge it would be a good idea to join forces. e.g. it could be a separate challenge track. We probably need to discuss this with Bill/Simon at an early stage before their plans develop too far. (Andrew/Ricardo to follow up through Bill)

- Stirling will continue their audiovisual features investigation, and will also look at implementing the gabor barcode features from Roger's demo. (Andrew/Amir to follow up with Roger)

- Sheffield will continue to develop their audiovisual resynthesis approach (Ricardo/Jon to follow up)

Sheffield Visit (by Andrew) Summary:

-The first day of the visit focused on talking through Sheffield's resynthesis technique, discussing the previous work that took place in Sheffield, and the challenges involved with Sheffield's current and immediate future work. The immediate objective at Sheffield is to get a baseline demo of an AV extension of their existing system up and running on Grid data. This will take time to fully restore and test in its audio mode, and then develop and audiovisual version. This should take place over the next 1-2 months. (Ricardo to follow-up, through a subsequent visit to Stirling in January - monthly reciprocal exchange of visits (by Andrew and Ricardo) are required, as the original proposal)

- The second day focused on practical software implementation, Andrew and Ricardo shared their

software configurations and determined what programming languages, tools, interfaces etc. they used. Future work will focus on setting up a shared repository for code. We also discussed the software used (Andrew/Ricardo to follow-up in next meeting at Stirling)

Next project Meeting:

- Stirling propose that the next meeting could take place over two days, either 4-5 or 11-12 of February (and that this follows Ricardo's visit to Stirling sometime in the 3rd/4th week of January).
- Can all partners confirm availability? (Bill and Peter could attend via Skype if convenient)