**15 RESEARCH PAPERS**

* **DETECTING SOUND:**

1. <https://github.com/spatialaudio/python-sounddevice/issues/93>
2. <https://stackoverflow.com/questions/24974032/reading-realtime-audio-data-into-numpy-array/24985016>

* **FEATURES OF SOUND:**

1) <https://www.toppr.com/guides/physics/sound/characteristics-of-sound/>

2) <https://en.wikipedia.org/wiki/Sound>

* **STORING SOUND:**

1. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0144610>

* **REMAINING PAPERS:**

1. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0087176>

**A general purpose dataflow digital signal processing environment for education using python:**

1. <https://ieeexplore.ieee.org/abstract/document/6978175/>
2. <http://docs.neu.edu.tr/library/6681752346.pdf>

(Using PyAudio and doing noise removal too)

1. <https://www.researchgate.net/profile/Joao_Sanches2/publication/266497577_Mobile_Robot_Control_with_the_Electrooculogram_Signal/links/55a51ec108ae81aec91339ff.pdf>

(Voice or speech detection actually build for low cost robotics)

1. <https://www.eurasip.org/Proceedings/Eusipco/Eusipco2017/wpapers/ML2.pdf>

(Music rhythm training using it detects nodes and try to perform it on a instrument) -> will help us in detection and voice enhancement

1. <https://pdfs.semanticscholar.org/7343/413b1963be7733cd61e13dece2355e59ccec.pdf>

(The proposed system will initialize speech driver and then user input will be taken with the help of microphone. This speech input will be converted into text. Lexical analyzer will take the text input and convert it into tokens which will be stored in symbol table. Parser takes the tokens as input and generates parse tree)

1. <https://www.irjet.net/archives/V5/i4/IRJET-V5I4748.pdf>

(system to follow a human voice in real time, using low cost electronics and processors)

1. <https://www.eurasip.org/Proceedings/Eusipco/Eusipco2017/wpapers/ML2.pdf>