Proposal

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One subject that we are interested in doing more research into is that of wavelets. We find them interesting, because they represent a different method from the Fourier series that can approximate functions. The other benefits of wavelets is that they allow different accuracy for different segments of the functions. They are also useful tool in a wide variety of fields, including computer science, mathematics, and physics. It seems through some initial research, that wavelets can be applied in many of the same situations as Fourier series, and it interests us to know of this alternate options from the Fourier series.

1 Links

Here are some relevant links from primary research:

Note A specific portion of wavelet theory needs to be determined, as the entire topic is far too broad. But we need to do some more research to be able to determine the topic of wavelets, that we are able to comprehend and interpret best.

- https://www.eecis.udel.edu/~amer/CISC651/IEEEwavelet.pdf
- http://www.hpl.hp.com/hpjournal/94dec/dec94a6.pdf
- http://web.iitd.ac.in/~sumeet/WaveletTutorial.pdf