

List of useful links

Information theory

- D.Mackay book: <http://www.inference.org.uk/itprnn/book.pdf>
- D. Mackay lecture series: <https://www.youtube.com/watch?v=BCiZc0n6COY&list=PLruBu5BI5n4aFpG32iMbdWoRVAA-Vcso6>
- The amazing video that sparked my interest in all of this (entropy, cross-entropy and KL-divergence): <https://youtu.be/ErfnhcEV1O8>
- If you are interested in the link between machine learning and information theory (not as directly relevant to the project):
 - Y. Bengio talk: <https://www.youtube.com/watch?v=-BjJMs8DS-8>
 - D. Mackay talk: <https://youtu.be/Z1pcTxvCOgw>
- 3D imaging from multipath information: <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.126.174301>

Diffuse imaging

- Previous work of which simulations are based on: <https://www.nature.com/articles/s41566-019-0439-x>
- Derivation of the equation used for time-dependent solution to the diffusion approximation: <https://www.osapublishing.org/ao/fulltext.cfm?uri=ao-28-12-2331&id=32504>
- Good modern textbook on diffuse imaging: “Deep Imaging in Tissue and Biomedical Materials”. Available to read online with GUID: <https://tinyurl.com/yf7f3oxc>
- Textbook specific to diffuse light: “Principles of diffuse light propagation”. Available to read online with GUID: <https://tinyurl.com/yggsb64r>

Plenoptic information

- <http://www.plenoptic.info/>
- https://en.wikipedia.org/wiki/Light_field
- https://en.wikipedia.org/wiki/Light-field_camera
- Lytro camera we have in the lab and how it works: <https://youtu.be/rEMP3XEgnws>
- Photon density wave interference (The best starting place for making a model): <https://aip.scitation.org/doi/abs/10.1063/1.117024?journalCode=apl>