Module 5 further readings

Consensus without synchrony (partially synchronous consensus)

Castro, M., & Liskov, B. (2002). Practical Byzantine fault tolerance and proactive recovery. *ACM Transactions on Computer Systems (TOCS)*, *20*(4), 398-461. doi:10.1145/571637.571640

Leveraging bandwidth

Doudou, A., & Schiper, A. (1998, June). Le consensus vectoriel: une nouvelle spécification du problème du consensus dans un modèle Byzantin [RENPAR'10 - 10e Rencontres Francophones du Parallelisme, 1998]. Retrieved from **https://infoscience.epfl.ch/record/50023/files/**

Doudou, A., & Schiper, A. (1998). Muteness detectors for consensus with Byzantine processes. *Proceedings of the Seventeenth Annual ACM Symposium on Principles of Distributed Computing*, 315. https://doi.org/10.1145/277697.277772

Pease, M., Shostak, R., & Lamport, L. (1980). Reaching agreement in the presence of faults. *Journal of the ACM (JACM)*, *27*(2), 228-234. doi:10.1145/322186.322188

Democratic Byzantine Fault Tolerance

Bracha, G. (1987). Asynchronous Byzantine agreement protocols. *Information and Computation*, *75*(2), 130–143. **https://doi.org/10.1016/0890-5401(87)90054-X**

Crain, T., Gramoli, V., Larrea, M., & Raynal, M. (2018). DBFT: Efficient Byzantine consensus with a weak coordinator and its application to consortium blockchains. Retrieved October 1, 2019, from **https://arxiv.org/abs/1702.03068**

Crain, T., Gramoli, V., Larrea, M., & Raynal, M. (2018, November 1-3). *DBFT: Efficient leaderless Byzantine consensus and its application to blockchains*. Paper presented at the 2018 IEEE 17th International Symposium on Network Computing and Applications (NCA). doi:**10.1109/NCA.2018.8548057**

Mostéfaoui, A., Moumen, H., & Raynal, M. (2015). Signature-free asynchronous binary byzantine consensus with $t < n/3$, O(n2) messages, and O(1) expected time. *Journal of the ACM (JACM)*, *62*(4), 31:1–31:21. **https://doi.org/10.1145/2785953**

The Red Belly Blockchain

Crain, T., Natoli, C., & Gramoli, V. (2018). Evaluating the Red Belly Blockchain. Retrieved October 1, 2019, from **https://arxiv.org/abs/1812.11747**

Vizier, G., & Gramoli, V. (2018, July). *ComChain: Bridging the Gap Between Public and Consortium Blockchains*. Paper presented at the 2018 IEEE International Conference on Blockchain (Blockchain 2018), Halifax, Canada.

Yin, M., Malkhi, D., Reiter, M. K., Gueta, G. G., & Abraham, I. (2019). HotStuff: BFT consensus in the lens of blockchain. Retrieved October 1, 2019, from **https://arxiv.org/abs/1803.05069**

*Wherever possible we have provided you with an open access/ free version of the readings in this MOOC. In some cases however, we have not been able to find a free version so we have provided the full title of the reading for you to search on **WorldCat** or **Amazon.**