

# Comparison of consensus algorithms for blockchain applications

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# PhD Track

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# Technical Report

March 2022

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# **1 Abstract**

In this report, we will try to do a comparison between different consensus algorithms for blockchain applications. Overviews of those algorithms already exist in the literature. However, we will both try to present new or not well known algorithms as well as try to measure the differences by conducting experiments with code.

# **2 Acknowledgement**

Special thanks to the supervisors of this PhD Track project, namely:

- Lionel Brunie
- Omar Hasan

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## **3 Introduction**

Since the introduction of the Bitcoin protocol and its “Proof of Work” [1], consensus algorithms have seen a rapid development and diversification.

### **3.1 Consensus Algorithms**

### **3.2 Blockchain types and impact**

## **4**

## **5 Conclusion**

## **6 Appendices**

## 7 Bibliography and References

### 7.1 References

#### References

- [1] Satoshi Nakamoto. *Bitcoin: A Peer-to-Peer Electronic Cash System*. Tech. rep. Jan. 2009.

### 7.2 Bibliography