

# Overview of Swirlds Hashgraph

Swirlds Hashgraph  
swirlds.hashgraph.com  
May 27, 2019

The hashgraph data structure and double consensus algorithm provide unique benefits for distributed consensus. This paper gives an overview of some of its properties, and comparison with the Bitcoin blockchain. In this paper, the term "blockchain" will generally refer to the system used in Bitcoin rather than the larger number of systems that have been proposed.

The goal of a distributed consensus algorithm is to allow a community of users to come to an agreement on the order in which some of their operations **transactions**, **contracts**, **blocks**, **messages** are to be treated by everyone. In this sense, it is a solution for coordinating work, where transactions are not always made each other. The Swirlds hashgraph system achieves this along with being **fair**, **fast**, **scalable**,  **Byzantine-fault-tolerant**, **efficient**, **immutable**, **distributed**, **self-organizing** and **efficiently non-governable**. This is summarized below.

The hashgraph is fair because no individual can manipulate the order of the transactions. For example, imagine a stock market where Alice and Bob both try to buy the last available shares of a stock at the same moment for the same price. In blockchain, it does not get both their transactions in a single block, and some complete transactions to show what each does next. Or the order might change to who comes first in the network, and then Bob's to come later next. In the hashgraph, there is no way for any individual to affect the consensus order of those transactions. The order Alice can see is treated as a better ordered consensus that her transactions receive everyone knows first. That's the fair way to compare. Alice can't see this to show she tried to give her an unfair advantage, because that is an illegal action responsible for the order.

The hashgraph is fast, able to provide very fast time to individual new operations from entering the system or immediately if complete. In block-chain, a transaction can be delayed by one or two weeks, or more, if many of the nodes are refusing to include it. In alternatives to blockchain based on blocks, this delay can be extremely long, with the next change of block. Even the hashgraph, structures cannot stop a message from recording by transaction to any one other than cutting off their internet access.

The hashgraph is fast and efficient only by the bandwidth, but it costs more than through bandwidth. An estimated 4,000 transactions per second, that is to say make the system use bandwidth. That would likely require a lot more per second, which is a typical home broadband connection, and it would be fast enough to handle about the operations of the entire USA and internet, worldwide. The Bitcoin limit of 7 transactions per second can likely be improved by various means. Through some means of improving it, such as a system that can, could possibly make the demands of the system less intense.

# 2016 05 31 Overview Of Swirlds Hashgraph

**Javier Prieto,Rafael Pastor  
Vargas,Oscar Lage,José Manuel  
Machado,Molnár Bálint**



## **2016 05 31 Overview Of Swirls Hashgraph:**

*Life After Google* George Gilder, 2018-07-17 A FINANCIAL TIMES BOOK OF THE MONTH FROM THE WALL STREET JOURNAL Nothing Mr Gilder says or writes is ever delivered at anything less than the fullest philosophical decibel Mr Gilder sounds less like a tech guru than a poet and his words tumble out in a romantic cascade Google's algorithms assume the world's future is nothing more than the next moment in a random process George Gilder shows how deep this assumption goes what motivates people to make it and why it's wrong the future depends on human action Peter Thiel founder of PayPal and Palantir Technologies and author of *Zero to One Notes on Startups or How to Build the Future* The Age of Google built on big data and machine intelligence has been an awesome era But it's coming to an end In *Life after Google* George Gilder the peerless visionary of technology and culture explains why Silicon Valley is suffering a nervous breakdown and what to expect as the post Google age dawns Google's astonishing ability to search and sort attracts the entire world to its search engine and countless other goodies videos maps email calendars And everything it offers is free or so it seems Instead of paying directly users submit to advertising The system of aggregate and advertise works for a while if you control an empire of data centers but a market without prices strangles entrepreneurship and turns the Internet into a wasteland of ads The crisis is not just economic Even as advances in artificial intelligence induce delusions of omnipotence and transcendence Silicon Valley has pretty much given up on security The Internet firewalls supposedly protecting all those passwords and personal information have proved hopelessly permeable The crisis cannot be solved within the current computer and network architecture The future lies with the cryptocosm the new architecture of the blockchain and its derivatives Enabling cryptocurrencies such as bitcoin and ether NEO and Hashgraph it will provide the Internet a secure global payments system ending the aggregate and advertise Age of Google Silicon Valley long dominated by a few giants faces a great unbundling which will disperse computer power and commerce and transform the economy and the Internet *Life after Google* is almost here For fans of *Wealth and Poverty Knowledge and Power and The Scandal of Money*      **Information Security**

**Technologies in the Decentralized Distributed Networks** Roman Oliynykov, Oleksandr Kuznetsov, Oleksandr Lemeshko, Tamara Radivilova, 2022-04-03 The authors explore various aspects of information processing for the design of service systems efficient management secure storage and transmission In addition the subtitle provides knowledge and practice in decentralized ICT technologies including those based on blockchain The aim of this book is to analyze and develop methods of building decentralized private databases without the presence of a trusted party methods of data processing in encrypted form to ensure the confidentiality of information and accessibility of the corresponding fragment of the original or transformed data In this book it is also relevant to research methods and protocols routing in infocommunication networks which provides load balancing in the network and analysis of intrusion detection methods based on analysis of signatures and anomalies in network behavior state changes based on machine learning and fractal analysis methods      **Dynamic Logic.**

**New Trends and Applications** Manuel A. Martins,Igor Sedlár,2020-12-21 This book constitutes the proceedings of the Third International Workshop on Dynamic Logic DaL 2019 held in Prague Czech Republic in October 2020 Due to COVID 19 the workshop has been held online The 17 full papers presented together with 6 short papers were carefully reviewed and selected from 31 submissions The theoretical relevance and practical potential of dynamic logic is a topic of interest in a number of scientific venues from wide scope software engineering conferences to modal logic specific events The DaL 2020 workshop is exclusively dedicated to Dynamic logic and aims at filling this gap and creating a heterogeneous community of colleagues from Academia to Industry from Mathematics to Computer Science

**Blockchain and Applications, 6th International Congress** Javier Prieto,Rafael Pastor Vargas,Oscar Lage,José Manuel Machado,Molnár Bálint,2025-03-03 This book compiles the proceedings of 6th International Congress on Blockchain and Applications 2024 BLOCKCHAIN 24 held in Salamanca Spain in June 2024 The book includes 31 full papers presented in the main track that were selected among 51 submissions highlighting theoretical advances and practical implementation of blockchain and distributed ledger technologies DLTs In addition it contains 9 papers from the associated workshops and doctoral consortium that cover topics such as cybersecurity legal aspects and climate action Blockchain and DLTs have revolutionized the scientific community by enabling breakthroughs in secure decentralized data management fostering transparency and collaboration Researchers are boosting innovation in areas like smart contracts consensus algorithms and governance models In combination with cutting edge technologies such as AI metaverse or quantum computing blockchain and DLTs are shaping the future of digital trust and innovation

Financial Cryptography and Data Security Ittay Eyal,Juan Garay,2022-10-21 This book constitutes revised selected papers from the proceedings of the 26th International Conference on Financial Cryptography and Data Security FC 2022 which was held in Grenada during May 2022 The 32 full papers and 4 short papers included in this book were carefully reviewed and selected from 159 submissions They were organized in topical sections as follows tokenomics MPC mostly privacy ZKP old school consensus mostly payment networks incentives not proof of work performance measurements

## Decoding **2016 05 31 Overview Of Swirls Hashgraph**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**2016 05 31 Overview Of Swirls Hashgraph**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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