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The Swirls

Hashgraph  
Consensus  
Algorithm  
Fair Fast

***A practical,  
informative guide  
to banks' major  
weakness Legal  
Data for Banking  
defines the legal***

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*data domain in the  
context of financial  
institutions, and  
describes how  
banks can leverage  
these assets to  
optimise business  
lines and  
effectively manage  
risk. Legal data is  
at the heart of  
post-2009  
regulatory reform,  
and practitioners*

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*need to deepen  
their grasp of legal  
data management  
in order to remain  
compliant with new  
rules focusing on  
transparency in  
trade and risk  
reporting. This  
book provides  
essential  
information for IT,  
project  
management and*

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*data governance  
leaders, with  
detailed discussion  
of current and best  
practices. Many  
banks are  
experiencing  
recurrent pain  
points related to  
legal data  
management  
issues, so clear  
explanations of the  
required processes,*

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Hashgraph  
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Proof

***systems and  
strategic  
governance provide  
immediately-  
relevant relief. The  
recent financial  
crisis following the  
collapse of major  
banks had roots in  
poor risk data  
management, and  
the regulators'  
unawareness of  
accumulated***

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**systemic risk  
stemming from  
contractual  
obligations  
between firms. To  
avoid repeating  
history, today's  
banks must be  
proactive in legal  
data management;  
this book provides  
the critical  
knowledge  
practitioners need**

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*to put the  
necessary systems  
and practices in  
place. Learn how  
current legal data  
management  
practices are  
hurting banks  
Understand the  
systems, structures  
and strategies  
required to  
manage risk and  
optimise business*

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lines Delve into the  
regulations  
surrounding risk  
aggregation,  
netting, collateral  
enforceability and  
more Gain  
practical insight on  
legal data  
technology,  
systems and  
migration The  
legal contracts  
between firms



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*contain significant obligations that underpin the financial markets; failing to recognise these terms as valuable data assets means increased risk exposure and untapped business lines. Legal Data provides critical*

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*information for the  
banking industry,  
with actionable  
guidance for  
implementation.*

*This book  
discusses  
fundamentals of  
blockchain  
technology, the  
issues in its  
development,  
potential  
applications, and*

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Hashgraph

Consensus

Algorithm Fintech

Fast

***its use in  
cryptocurrency. It  
also covers fintech,  
its status and  
applications, and  
the concepts  
related to a digital  
economy. Because  
this subject is vast  
and quickly  
changing, the book  
serves as a  
comprehensive  
introduction and***

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*background to  
anyone who is  
interested in  
blockchain  
technology and  
cryptocurrency. It  
has numerous  
references for  
anyone who is  
interested in  
further research.*

*Features:*

*Discusses basic  
concepts of*

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**blockchain  
technology, the  
issues in its  
development,  
potential  
applications, and  
its use in  
cryptocurrency  
Covers Bitcoin  
issues, altcoins,  
MDLs, industrial  
applications,  
payment,  
regulations, and**

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Hashgraph  
*more*

***This double  
volumes LNCS  
11229-11230  
constitutes the  
refereed  
proceedings of the  
Confederated  
International  
Conferences:  
Cooperative  
Information  
Systems, CoopIS  
2018, Ontologies,***

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Hashgraph  
Consensus  
Algorithms, Fair

**Databases, and  
Applications of  
Semantics, Fair**

**ODBASE 2018, and  
Cloud and Trusted  
Computing, C&TC,  
held as part of  
OTM 2018 in  
October 2018 in  
Valletta, Malta.**

**The 64 full papers  
presented together  
with 22 short  
papers were**

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*carefully reviewed  
and selected from  
173 submissions.  
The OTM program  
every year covers  
data and Web  
semantics,  
distributed objects,  
Web services,  
databases, informa  
tionsystems,  
enterprise  
workflow and  
collaboration,*



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Hashgraph  
Consensus  
Algorithm Fair  
**ubiquity,  
interoperability,  
mobility, grid and  
high-performance  
computing.**

**Advances in  
artificial  
intelligence,  
sensor computing,  
robotics, and  
mobile systems are  
making  
autonomous  
systems a reality.**

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*At the same time,  
the influence of  
edge computing is  
leading to more  
distributed  
architectures  
incorporating more  
autonomous  
elements. The flow  
of information is  
critical in such  
environments, but  
the real time,  
distributed nature*

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Hashgraph  
Consensus  
Algorithm For  
Pub

***of the system  
components  
complicates the  
data protection  
mechanisms.***

***Policy-based  
management has  
proven useful in  
simplifying the  
complexity of  
management in  
domains like  
networking,  
security, and***

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*storage; it is expected that many of those benefits would carry over to the task of managing big data and autonomous systems. This book aims at providing an overview of recent work and identifying challenges related to the design of*

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Hashgraph  
Consensus  
Algorithm Fair  
Fast  
**policy-based  
approaches for  
managing big data  
and autonomous**

**systems. An  
important new  
direction explored  
in the book is to  
make the major  
elements of the  
system self-  
describing and self-  
managing. This  
would lead to**

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Consensus  
Algorithm Fair

***architectures  
where policy  
mechanisms are  
tightly coupled  
with the system  
elements. In such  
integrated  
architectures, we  
need new models  
for information  
assurance,  
traceability of  
information, and  
better provenance***

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*on information  
flows. In addition  
when dealing with  
devices with  
actuation  
capabilities and,  
thus, being able to  
make changes to  
physical spaces,  
safety is critical.  
With an emphasis  
on policy-based  
mechanisms for  
governance of data*

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Consensus  
Algorithm Fair  
List

***security and  
privacy, and for  
safety assurance,  
the papers in this  
volume follow  
three broad  
themes:***

***foundational  
principles and use-  
cases for the  
autonomous  
generation of  
policies; safe  
autonomy; policies***



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Hashgraph  
Consensus  
Algorithms Fair  
**and autonomy in  
federated  
environments!**

**NASA Formal  
Methods**

**ICIPCN 2021**

**18th International  
Conference, ESWC  
2021, Virtual**

**Event, June 6-10,  
2021, Proceedings  
7th International  
Conference, ICAIS  
2021, Dublin,**

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***Ireland, July 19-23,  
2021, Proceedings,  
Part III***

11th EAI  
International  
Conference,  
WiSATS 2020,  
Nanjing, China,  
September 17-18,  
2020, Proceedings,  
Part II

***Algorithms and  
Architectures for  
Parallel Processing***

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***Proceedings of  
10th Computer  
Science On-line  
Conference 2021,  
Vol. 2***

This book  
presents selected  
papers from the  
Third International  
Workshop on  
Vehicular Ad-hoc  
Networks for

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Smart Cities,  
Paris, 2019.  
Future smart cities  
are well placed to  
profit from  
extraordinary  
mobile  
infrastructures.  
IWVSC'2019  
brings together  
experts from both  
academia and

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industry to discuss  
recent  
developments in  
vehicular  
networking  
technologies and  
their interaction  
with future smart  
cities in order to  
promote further  
research activities  
and challenges.

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As technology  
continues to  
revolutionise  
today's economy,  
Big Data,  
Blockchain and  
Cryptocurrency  
are rapidly  
transforming  
themselves into  
mainstream  
functions within

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the financial  
services industry.  
This book  
examines each  
concept  
individually,  
analysing the  
opportunities and  
challenges they  
bring and  
exploring the  
potential for

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Hashgraph

future

Consensus

development. The

Algorithm Fair

authors further

Fast

evaluate the

fusion of these

three important

products of the

FinTech

revolution,

illustrating their

combined

influence on the



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digital economy.  
Providing a  
comprehensive  
analysis of three  
innovative  
technologies, this  
timely book will  
appeal to scholars  
researching  
innovation in the  
finance industry  
and financial

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Hashgraph  
services  
Consensus  
technology more  
Algorithm Fair  
East  
specifically.

This book  
constitutes the  
refereed  
proceedings of the  
18th International  
Semantic Web  
Conference, ESWC  
2021, held  
virtually in June

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2021. The 41 full papers and 2 short papers presented were carefully reviewed and selected from 167 submissions. The papers were submitted to three tracks: the research track, the resource track

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and the in-use track. These tracks showcase research and development activities, services and applications, and innovative research outcomes making their way into industry. The

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research track  
caters to both  
long-standing and  
emerging  
research topics in  
the form of the  
following  
subtracks:  
ontologies and  
reasoning;  
knowledge graphs  
(understanding,

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creating, and  
exploiting);  
semantic data  
management,  
querying and  
distributed data;  
data dynamics,  
quality, and trust;  
matching,  
integration, and  
fusion; NLP and  
information

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retrieval; machine learning; science data and scholarly communication; and problems to solve before you die.

The two-volume set LNCS 12385 + 12386 constitutes the proceedings of the 15th

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International  
Conference on  
Wireless

Algorithms,  
Systems, and  
Applications,  
WASA 2020, which  
was held during  
September 13-15,  
2020. The  
conference was  
planned to take



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place in Qingdao, China; due to the COVID-19 pandemic it was held virtually. The 67 full and 14 short papers presented in these proceedings were carefully reviewed and selected from 216 submissions.

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The papers focus on data path algorithms; control path algorithms; network protocol design; network security; network services; and cloud computing. Proceedings of the Future

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Technologies  
Consensus  
Conference (FTC)  
Algorithm Fair  
2020, Volume 2  
East  
17th International  
Conference,  
Inscrypt 2021,  
Virtual Event,  
August 12-14,  
2021, Revised  
Selected Papers  
Third International  
Workshop, 2019

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Hashgraph

Critical

Consensus

Infrastructure

Algorithm Fair

Protection XIII

East

The Making of

Virtual Currency

Advances in

Artificial

Intelligence and

Security

Confederated

International

Conferences:

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CoopIS, C&TC, and  
ODBASE 2018,  
Valletta, Malta,  
October 22-26,  
2018,  
Proceedings, Part  
II

**The second volume  
of this edited  
collection offers a  
number of  
contributions from  
leading scholars**

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investigating  
Blockchain and its  
implications for  
business. Focusing  
on the  
transformation of  
the overall value  
chain, the sections  
cover the  
foundations of  
Blockchain and its  
sustainability, social  
and legal  
applications. It

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Hashgraph  
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**features a variety of use cases, from tourism to healthcare. Using a number of theoretical and methodological approaches, this innovative publication aims to further the cause of this ground-breaking technology and its use within**

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information  
technology, supply  
chain and wider  
business  
management  
research.

This thought-  
provoking book  
challenges the way  
we think about  
regulating  
cryptoassets.

Bringing a timely  
new perspective,



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Consensus  
Algorithm Fair  
Proof

**Syren Johnstone  
critiques the  
application of a  
financial regulation  
narrative to  
cryptoassets,  
questioning the  
assumptions on  
which it is based  
and whether  
regulations  
developed in the  
20th century remain  
fit to apply to a**

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Hashgraph  
Consensus  
Algorithm Fair  
technology  
emerging in the  
21st.

**Handbook of  
Research on  
Blockchain  
Technology  
presents the latest  
information on the  
adaptation and  
implementation of  
Blockchain  
technologies in real  
world business,**

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scientific, healthcare  
and biomedical  
applications. The  
book's editors  
present the rapid  
advancements in  
existing business  
models by applying  
Blockchain  
techniques. Novel  
architectural  
solutions in the  
deployment of  
Blockchain

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comprise the core aspects of this book. Several use cases with IoT, biomedical engineering, and smart cities are also incorporated. As Blockchain is a relatively new technology that exploits decentralized networks and is

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Algorithm Fair

**used in many  
sectors for reliable,  
cost-effective and  
rapid business  
transactions, this  
book is a welcomed  
addition on existing  
knowledge.**

**Financial services,  
retail, insurance,  
logistics, supply  
chain, public  
sectors and  
biomedical**

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Proof

**industries are now investing in Blockchain research and technologies for their business growth. Blockchain prevents double spending in financial transactions without the need of a trusted authority or central server. It is a decentralized ledger**

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Algorithm Fair  
Fast

**platform that  
facilitates verifiable  
transactions  
between parties in a  
secure and smart  
way. Presents the  
evolution of  
blockchain, from  
fundamental  
theories, to present  
forms Explains the  
concepts of  
blockchain related  
to cloud/edge**

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Algorithm Fair  
Fact

**computing, smart  
healthcare, smart  
cities and Internet of  
Things (IoT)**

**Provides complete  
coverage of the  
various tools,  
platforms and  
techniques used in  
blockchain Explores  
smart contract tools  
and consensus  
algorithms Covers a  
variety of**



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Consensus  
Algorithm Fair

**applications with  
real world case  
studies in areas  
such as biomedical  
engineering, supply  
chain management,  
and tracking of  
goods and delivery  
Besides love, money  
and health are the  
most valuable  
human yearnings.  
Therefore,  
blockchain**

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Hashgraph  
Consensus  
Algorithm Fair  
Fast

**technology is paramount: a new foundation of confidence for human valuable transactions. Like information sharing was catalyzed on the pre-blockchain internet, transactions are now triggered on the new internet of value. In this second**

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Hashgraph  
Consensus  
Algorithm: Fair  
Fast

**digital inflection  
point, economic  
media encompasses  
value beside  
information, and  
individuals can  
privately transact  
digital assets for the  
first time in history.  
Decentralized but  
structured  
organizations  
running on  
blockchain networks**

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Hashgraph  
Consensus  
Algorithm Fair  
Fast

**reduce transaction costs and are particularly Fair competitive insofar as they guarantee data authenticity, confidentiality, and integrity, providing functional autonomy with disintermediation and smart contracts. Everything changed after user data were**

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Hashgraph  
Consensus  
Algorithm: Fair  
Trust

**made public on the internet and privately traded by big tech companies, and nothing will be the same once that data is made private on the internet and publicly transacted by their rightful owners. While the internet of information reshaped the world,**

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the internet of value  
will reform it, and  
everything will  
depend politically  
on this being done  
freely. Political and  
Economic  
Implications of  
Blockchain  
Technology in  
Business and  
Healthcare provides  
relevant theoretical  
frameworks on the

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Consensus  
Algorithm, Fair  
Fast

**civilizational impact  
of blockchain  
technology, which  
redesigns human  
interactions  
concerning value  
transactions. It  
gives ideas,  
concepts, and  
instruments to  
advance the  
knowledge on  
cryptoeconomics  
and decentralized**

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governance in the  
new distributed trust  
paradigm. The  
chapters explore the  
ethical  
repercussions and  
profound political-  
economic  
consequences to  
society, providing  
insights into  
business  
applications  
focusing on the



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healthcare sector. In  
a blockchain era  
affected by the post-  
COVID-19 new  
normal, which mixes  
politics, economics,  
and health, this  
book is essential for  
students and  
researchers in  
social and life  
sciences;  
professionals and  
policymakers

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working in the fields  
of public and  
business

administration; and  
healthcare workers  
and researchers,  
academicians, and  
students interested  
in blockchain  
technology and its  
political and  
economic impacts in  
the industry and  
society.

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New Prospect

Rethinking the  
Regulation of  
Cryptoassets

Blockchain And  
Smart Contracts:

Design Thinking  
And Programming  
For Fintech

Enabling Blockchain  
Technology for

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Algorithms Fair  
Part

**Secure Networking  
and  
Communications  
15th International  
Conference, WASA  
2020, Qingdao,  
China, September  
13–15, 2020,  
Proceedings, Part II  
Principles,  
Technologies and  
Applications  
15th International  
Conference,**

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Algorithm  
Inscrypt 2019,  
Nanjing, China,  
December 6–8, 2019,  
Revised Selected  
Papers

*The information  
infrastructure –  
comprising  
computers,  
embedded  
devices,  
networks and  
software systems  
– is vital to*

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*operations in  
every sector:  
chemicals, Fair  
commercial  
facilities,  
communications,  
critical  
manufacturing,  
dams, defense  
industrial base,  
emergency  
services,  
energy,  
financial*

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services, food  
and agriculture,  
government  
facilities,  
healthcare and  
public health,  
information  
technology,  
nuclear  
reactors,  
materials and  
waste,  
transportation  
systems, and

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Consensus  
Algorithm  
Past

***water and  
wastewater  
systems. Global  
business and  
industry,  
governments,  
indeed society  
itself, cannot  
function if  
major components  
of the critical  
information  
infrastructure  
are degraded,***



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Hashgraph  
Consensus  
*disabled or  
destroyed.*

*Critical* Fair

*Infrastructure  
Protection XIII*

*describes  
original  
research results  
and innovative  
applications in  
the interdiscipl  
inary field of  
critical  
infrastructure*

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Hashgraph  
Consensus  
protection.

Also, it  
highlights the  
importance of  
weaving science,  
technology and  
policy in  
crafting  
sophisticated,  
yet practical,  
solutions that  
will help secure  
information,  
computer and

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Consensus  
Algorithm Fair  
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**network assets  
in the various  
critical  
infrastructure  
sectors. Areas  
of coverage  
include: Themes  
and Issues;  
Infrastructure  
Protection;  
Vehicle  
Infrastructure  
Security; Teleco  
mmunications**

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**Infrastructure  
Security; Cyber-  
Physical Systems  
Security; and  
Industrial  
Control Systems  
Security. This  
book is the  
thirteenth  
volume in the  
annual series  
produced by the  
International  
Federation for**

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Information  
Processing  
(IFIP) Working  
Group 11.10 on  
Critical  
Infrastructure  
Protection, an  
international  
community of  
scientists,  
engineers,  
practitioners  
and policy  
makers dedicated

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to advancing  
research,  
development and  
implementation  
efforts focused  
on  
infrastructure  
protection. The  
book contains a  
selection of  
sixteen edited  
papers from the  
Thirteenth  
Annual IFIP WG

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Hashgraph  
**11.10**

**Consensus  
Algorithm: Fair  
Fast**  
**International  
Conference on  
Critical  
Infrastructure  
Protection, held  
at SRI  
International,  
Arlington,  
Virginia, USA in  
the spring of  
2019. Critical  
Infrastructure  
Protection XIII**

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Past

***is an important resource for researchers, faculty members and graduate students, as well as for policy makers, practitioners and other individuals with interests in homeland security.***



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*This book  
constitutes  
revised selected  
papers from the  
workshops held  
at the 26th  
International  
Conference on  
Parallel and  
Distributed  
Computing, Euro-  
Par 2020, which  
took place in  
Warsaw, Poland,*

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Consensus  
Algorithm Fair  
Past**

***in August 2020.  
The workshops  
were held  
virtually due to  
the coronavirus  
pandemic. The 27  
full papers  
presented in  
this volume were  
carefully  
reviewed and  
selected from 50  
submissions.  
Euro-Par is an***

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Hashgraph

**annual,**

**international  
consensus  
conference in**

**Europe, covering  
all aspects of  
parallel and  
distributed  
processing.**

**These range from  
theory to  
practice, from  
small to the  
largest parallel  
and distributed**

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Hashgraph  
Consensus  
Algorithm  
FAQ

***systems and  
infrastructures,  
from fundamental  
computational  
problems to full-  
edged  
applications,  
from  
architecture,  
compiler,  
language and  
interface design  
and  
implementation***

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Hashgraph  
Consensus  
Algorithm Fair  
Fast  
to tools,  
support  
infrastructures,  
and application  
performance  
aspects.

This three-  
volume set LNCS  
12452, 12453,  
and 12454  
constitutes the  
proceedings of  
the 20th  
International

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**Conference on  
Algorithms and  
Architectures  
for Parallel  
Processing,  
ICA3PP 2020, in  
New York City,  
NY, USA, in  
October 2020.**

**The total of 142  
full papers and  
5 short papers  
included in this  
proceedings**

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Hashoraph  
Consensus  
Algorithm For  
Past

**volumes was  
carefully  
reviewed and  
selected from  
495 submissions.  
ICA3PP is  
covering the  
many dimensions  
of parallel  
algorithms and  
architectures,  
encompassing  
fundamental  
theoretical**

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*approaches,  
practical  
experimental  
projects, and  
commercial  
components and  
systems. As  
applications of  
computing  
systems have  
permeated in  
every aspects of  
daily life, the  
power of*



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***computing system  
has become  
increasingly  
critical. This  
conference  
provides a forum  
for academics  
and  
practitioners  
from countries  
around the world  
to exchange  
ideas for  
improving the***

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***efficiency,  
performance,  
reliability,  
security and  
interoperability  
of computing  
systems and  
applications.  
ICA3PP 2020  
focus on two  
broad areas of  
parallel and  
distributed  
computing, i.e.***

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*Hashgraph  
Consensus  
Algorithm, Fair  
Proof*  
**architectures,  
algorithms and  
networks, and  
systems and  
applications.  
Present book  
covers new  
paradigms in  
Blockchain, Big  
Data and Machine  
Learning  
concepts  
including  
applications and**

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***case studies. It explains dead fusion in Fair realizing the privacy and security of blockchain based data analytic environment. Recent research of security based on big data, blockchain and machine***

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*Learning has  
been explained  
through actual  
work by  
practitioners  
and researchers,  
including their  
technical  
evaluation and  
comparison with  
existing  
technologies.  
The theoretical  
background and*

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Part

**experimental  
case studies  
related to real-  
time environment  
are covered as  
well. Aimed at  
Senior  
undergraduate  
students,  
researchers and  
professionals in  
computer science  
and engineering  
and electrical**

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Hashgraph  
engineering,  
Consensus  
this book:

**Converges Fair  
Blockchain, Big  
Data and Machine  
learning in one  
volume. Connects  
Blockchain  
technologies  
with the data  
centric  
applications  
such Big data  
and E-Health.**

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***Easy to understand examples on how to create your own blockchain supported by case studies of blockchain in different industries. Covers big data analytics examples using R. Includes***



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Algorithm Fair  
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**illustrative  
examples in  
python for  
blockchain  
creation.**

**Blockchain, Big  
Data and Machine  
Learning**

**ICCWS 2019**

**Fusing Big Data,  
Blockchain and  
Cryptocurrency  
Artificial**

**Intelligence in**

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**Intelligent  
Systems**

Algorithm Fair

**Proceedings of  
10th Computer  
Science On-line  
Conference 2021,  
Vol. 1**

**21st**

**International  
Conference,  
Guimaraes,  
Portugal,  
November 4-6,**

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Hashgraph  
**2020,**  
**Proceedings,**  
**Part I**

This two-volume set  
LNICST 357-358  
constitutes the post-  
conference  
proceedings of the  
11th EAI  
International  
Conference on  
Wireless and  
Satellite Services,

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WiSATS 2020, held  
in Nanjing, China, in  
September 2020.

The 91 full papers  
and workshop  
papers were  
carefully reviewed  
and selected from  
200 submissions.

Part I - LNICST 357  
- details original  
research and results  
of wireless and

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satellite technology  
for a smarter global  
communication  
architecture. The  
theme of WISATS  
2020 is “ Intelligent  
Wireless and  
Satellite  
Communications for  
Beyond 5G ” . Part II  
– LNICST 358 -  
presents 6  
workshop papers:

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High Speed Space  
Communication and  
Space Information  
Networks  
(HSSCSIN);  
Integrated Space  
and Onboard  
Networks (ISON);  
Intelligent Satellite  
Operations,  
Managements, and  
Applications  
(ISOMA); Intelligent

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Satellites in Future  
Space Networked  
System (ISFSNS);  
Satellite  
Communications,  
Networking and  
Applications  
(SCNA); Satellite  
Internet of Things;  
Trusted Data  
Sharing, Secure  
Communication  
(SIOTTDSSC).

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Innovative as it is,  
the blockchain  
technology is getting  
more and more  
attention and an  
increasing number  
of applications have  
emerged. This book  
elaborates on both  
the design thinking  
ideas and technical  
details in blockchain  
and smart contracts



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to help readers delve into the conceptual framework and understand why blockchain is designed as such and how it makes the current system decentralised yet effective. Having this understanding lays the ground for

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further analysis of  
blockchain-based  
solutions and  
innovative fintech  
applications. Topics  
covered in this book  
include blockchain  
structure,  
blockchain  
ecosystem, design  
thinking for  
blockchain, smart  
contract, fintech and

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financial services,  
solution-based  
problem solving,  
fintech valuation,  
and current issues  
faced such as  
privacy protection  
and solution  
selection, with the  
aid of real-life  
examples and  
hands-on  
exercises. Blockchain

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n and Smart  
Contracts serves as  
a valuable guide for  
researchers and  
practitioners who  
have interests in the  
blockchain, smart  
contract, fintech  
innovation and  
applications, design  
thinking, and  
technical details.

This book is  
*Page 108/216*

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Fast

particularly written  
for anyone who has  
no technical  
background and is  
searching for an  
initiation into the  
deep end of  
blockchain. Those  
with business,  
finance and  
economic interests  
will find this  
interesting and easy

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Hashgraph

to digest.

Consensus

Algorithm Fair

Fair

THE MONTH

FROM THE WALL

STREET

JOURNAL: "Nothing

Mr. Gilder says or

writes is ever

delivered at

anything less than

the fullest

philosophical

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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

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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



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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

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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

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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

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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

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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

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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

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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, ”

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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."



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Hashgraph

Consensus  
Algorithm Fair

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This book constitutes the refereed proceedings of the Software Engineering and Algorithms section of the 10th Computer Science On-line Conference 2021 (CSOC 2021), held on-line in April 2021. Software

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Hashgraph  
engineering  
Consensus  
research and its  
Algorithm Fair  
Fast  
applications to  
intelligent algorithms  
take an essential  
role in computer  
science research. In  
this book, modern  
research methods,  
application of  
machine and  
statistical learning in  
the software

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engineering  
Consensus  
research are  
Algorithm Fair  
presented.

Fast  
Proceedings of the  
2021 Future of  
Information and  
Communication  
Conference (FICC),  
Volume 2  
On the Move to  
Meaningful Internet  
Systems. OTM 2018  
Conferences

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Euro-Par 2020  
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International  
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Workshops,  
Warsaw, Poland,

August 24–25,  
2020, Revised  
Selected Papers  
Intelligent Data  
Engineering and  
Automated Learning  
– IDEAL 2020

ICCWS 2019 14th  
International

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Cyber Warfare and  
Security

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40th Annual  
International  
Cryptology  
Conference,  
CRYPTO 2020,  
Santa Barbara, CA,  
USA, August 17–21,  
2020, Proceedings,  
Part III  
Multidisciplinary

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## Hashgraph Consensus Algorithm Fair Fast

### Perspectives on the Design of Blockchains and Distributed Ledgers

This book  
constitutes the  
refereed  
proceedings of the  
artificial intelligence  
in intelligent  
systems section of  
the 10th Computer  
Science Online

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Consensus  
Algorithm: Fast  
Fast

Conference 2021  
(CSOC 2021), held  
online in April 2021.

Artificial intelligence  
in intelligent  
systems topics are  
presented in this  
book. Modern hybrid  
and bio-inspired  
algorithms and their  
application are  
discussed in  
selected papers.

This book includes

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the papers  
presented in 2nd  
International Fair  
Conference on  
Image Processing  
and Capsule  
Networks [ICIPCN  
2021]. In this digital  
era, image  
processing plays a  
significant role in  
wide range of real-  
time applications  
like sensing,



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automation, health care, industries etc. Today, with many technological advances, many state-of-the-art techniques are integrated with image processing domain to enhance its adaptiveness, reliability, accuracy and efficiency. With the advent of

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intelligent

Consensus

technologies like

Algorithm: Fair

machine learning

Fast

especially deep

learning, the

imaging system can

make decisions

more and more

accurately.

Moreover, the

application of deep

learning will also

help to identify the

hidden information

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in volumetric  
images.

Nevertheless, capsule network, a type of deep neural network, is revolutionizing the image processing domain; it is still in a research and development phase. In this perspective, this book includes the state-of-the-art

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Plus

research works that integrate intelligent techniques with image processing models, and also, it reports the recent advancements in image processing techniques. Also, this book includes the novel tools and techniques for deploying real-time image processing

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applications. The chapters will briefly discuss about the intelligent image processing technologies, which leverage an authoritative and detailed representation by delivering an enhanced image and video recognition and adaptive

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processing mechanisms, which may clearly define the image and the family of image processing techniques and applications that are closely related to the humanistic way of thinking.

In recent years, the surge of blockchain technology has

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been rising due to its  
proven reliability in  
ensuring secure and  
effective

transactions, even  
between untrusted  
parties. Its  
application is broad  
and covers public  
and private domains  
varying from  
traditional  
communication  
networks to more

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modern networks like the internet of things and the internet of energy crossing fog and edge computing, among others. As technology matures and its standard use cases are established, there is a need to gather recent research that can shed light on



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several aspects and  
facts on the use of  
blockchain

technology in  
different fields of  
interest. Enabling  
Blockchain  
Technology for  
Secure Networking  
and

Communications  
consolidates the  
recent research  
initiatives directed

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towards exploiting the advantages of blockchain technology for benefiting several areas of applications that vary from security and robustness to scalability and privacy-preserving and more. The chapters explore the current applications

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of blockchain for  
networking and  
communications,  
the future potentials  
of blockchain  
technology, and  
some not-yet-  
prospected areas of  
research and its  
application. This  
book is ideal for  
practitioners,  
stakeholders,  
researchers,

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academicians, and students interested in the concepts of blockchain

technology and the potential and pitfalls of its application in different utilization domains.

Conference on Cryptologic Research, CRYPTO 2020, which was held during August

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17-21, 2020. Crypto  
has traditionally  
been held at UCSB  
every year, but due  
to the COVID-19  
pandemic it will be  
an online event in  
2020. The 85 papers  
presented in the  
proceedings were  
carefully reviewed  
and selected from a  
total of 371  
submissions. They

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Part I:  
were organized in  
topical sections as  
follows: Part I:

Security Models;  
Symmetric and Real  
World  
Cryptography;  
Hardware Security  
and Leakage  
Resilience;  
Outsourced  
encryption;  
Constructions. Part  
II: Public Key

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Cryptanalysis;  
Lattice Algorithms  
and Cryptanalysis;  
Lattice-based and  
Post Quantum  
Cryptography; Multi-  
Party Computation.  
Part III: Multi-Party  
Computation; Secret  
Sharing;  
Cryptanalysis; Delay  
functions; Zero  
Knowledge.

Building

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Decentralized Trust  
The Fall of Big Data  
and the Rise of the  
Blockchain

Economy

14th International  
Symposium, NFM  
2022, Pasadena, CA,  
USA, May 24–27,  
2022, Proceedings

Political and  
Economic  
Implications of  
Blockchain



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Technology in  
Business and  
Healthcare Fair  
Second International  
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Image Processing  
and Capsule  
Networks  
Wireless and  
Satellite Systems  
Business  
Optimisation and  
Regulatory  
Compliance

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This book describes how the rapid advancement in encryption and network computing gave birth to new tools and products that have influenced the local and global economy alike. One recent and notable example is the

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emergence of  
virtual currencies  
(such as Bitcoin)  
also known as  
cryptocurrencies.  
Virtual currencies  
introduced a  
fundamental  
transformation that  
affected the way  
goods, services and  
assets are  
exchanged. As a

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result of its  
distributed ledgers  
based on  
blockchain,  
cryptocurrencies  
not only offer some  
unique advantages  
to the economy,  
investors, and  
consumers, but also  
pose considerable  
risks to users and  
challenges for

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regulators when fitting the new technology into the old legal framework. The core of this proposed book is to present and discuss the evidence on financial asset capabilities of virtual currencies. The contributors of

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this volume analyze  
several interesting  
and timely issues  
such as the  
particularities of  
virtual currencies  
and their statistical  
characteristics; the  
diversification  
benefits of virtual  
currencies; the  
behavior and  
dependence

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structure between  
virtual currencies  
and the financial  
markets; the  
economic  
implications of  
virtual currencies,  
their effects, their  
price risk, and  
contagion spillovers  
in a unified and  
comprehensive  
framework; the

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future of virtual  
currencies and their  
distributed ledgers  
technology.

This book  
constitutes the  
proceedings of the  
13th International  
Conference on  
Network and  
System Security,  
NSS 2019, held in  
Sapporo, Japan, in



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December 2019.

Consensus

The 36 full papers

Algorithm Fair

and 7 short papers

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presented together

with 4 invited

papers in this book

were carefully

reviewed and

selected from 89

initial submissions.

The papers cover a

wide range of

topics in the field,

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including  
authentication,  
access control,  
availability,  
integrity, privacy,  
confidentiality,  
dependability and  
sustainability of  
computer networks  
and systems.

The 3-volume set  
CCIS 1422, CCIS  
1423 and CCIS 1424

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constitutes the  
refereed  
proceedings of the  
7th International  
Conference on  
Artificial  
Intelligence and  
Security, ICAIS  
2021, which was  
held in Dublin,  
Ireland, in July  
2021. The total of  
131 full papers and

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52 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1013 submissions. The papers were organized in topical sections as follows:  
Part I: artificial intelligence; Part II: artificial

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intelligence; big  
data; cloud  
computing and  
security; Part III:  
cloud computing  
and security;  
encryption and  
cybersecurity;  
information hiding;  
IoT security.

This book  
constitutes the  
proceedings of the

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14th International  
Symposium on  
NASA Formal  
Methods, NFM  
2022, held in  
Pasadena, USA,  
during May 24-27,  
2022. The 33 full  
and 6 short papers  
presented in this  
volume were  
carefully reviewed  
and selected from

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118 submissions. The volume also contains 6 invited papers. The papers deal with advances in formal methods, formal methods techniques, and formal methods in practice. The focus on topics such as interactive and automated

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theorem proving;  
SMT and SAT  
solving; model  
checking; use of  
machine learning  
and probabilistic  
reasoning in formal  
methods; formal  
methods and  
graphical modeling  
languages such as  
SysML or UML;  
usability of formal



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method tools and  
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application in  
Algorithm Fair  
industry, etc.

Handbook of  
Research on  
Blockchain  
Technology  
Information  
Security  
Technologies in the  
Decentralized  
Distributed  
Networks

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through Blockchain  
Wireless Blockchain  
Security in  
Autonomous  
Driving  
Their Individual and  
Combined  
Importance in the  
Digital Economy  
Applications and  
trends in fintech I

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governance, AI, and  
blockchain design  
thinking

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

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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

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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

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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.

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Autonomous driving is an emerging field.

Vehicles are equipped with different systems such as radar, lidar, GPS etc. that enable the vehicle to make decisions and navigate without user's input, but there are still concerns regarding safety and security.

This book analyses the

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security needs and solutions which are beneficial to autonomous driving.

This volume brings together a multidisciplinary group of scholars from diverse fields including computer science, engineering, archival science, law, business, psychology,



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economics, medicine  
and more to discuss the  
trade-offs between  
different “ layers ” in  
designing the use of  
blockchain/Distributed  
Ledger Technology  
(DLT) for social trust,  
trust in data and  
records, and trust in  
systems. Blockchain  
technology has  
emerged as a solution

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to the problem of trust  
in data and records, as  
well as trust in social,  
political and economic  
institutions, due to its  
profound potential as a  
digital trust  
infrastructure.

Blockchain is a DLT in  
which confirmed and  
validated sets of  
transactions are stored  
in blocks that are

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chained together to make tampering more difficult and render records immutable.

This book is dedicated to exploring and disseminating the latest findings on the relationships between socio-political and economic data, record-keeping, and technical aspects of blockchain.

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academic  
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students from all  
over the world.  
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papers covered a  
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including but not  
limited to  
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electronics,  
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intelligence,  
robotics, security  
and  
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and their  
applications to the  
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210 submissions  
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group of  
technology  
geniuses in one  
venue to not only  
present  
breakthrough  
research in future  
technologies, but  
also to promote  
discussions and  
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