A Bibliography of Publications about Bitcoin and Digital Cash Systems

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/
27 April 2019
Version 1.40

Title word cross-reference

$1.2M$ [McM13]. $10$ [Pop17a]. 100× [CEN14]. $145$ [Cim19]. $190$ [McK19].
$1m$ [Sou13]. $2$ [Goo18]. $28.5$ [Gre13].
$3.3$ [Cim18a]. $37$ [Lee13]. $400$ [Nak18].
$400M$ [Gal18]. $530$

[YWW+18, YWS+18]. $62m$ [Nic17]. $735$
[Osb18b]. $\delta$ [LL17b, LL17c]. $PCS$
[KLR+17a]. $N$ [ZGR17].

- Bitcoin- [BS17a]. - privacy [LL17b, LL17c].

1 [BH15]. 150 [Woo14]. 16th [Ker12]. '17
[ACM17c]. 17th [Sad13]. 18-Month [De18].

2.0 [AMLH18, SI16, Six17b, SALY17, Uli16].

2014 [Uni14]. 20th [GP17b].

34th [OF15]. 3rd [ACM17d].

'83 [CRS83]. 8th [Jue04].

Ability [SGF+17]. Abstract
[BLMR14, DNSY14, Hill14, Hul17]. Abu
[ACM17a, ACM17b, ACM17d]. Abuse
[VBC+17]. Academic [LHZ17, NC17b].
Accelerating [GADO17, SZ13].
acceleration [Dev14]. Access
[DMR17b, HHK18, ISM17, OEO16, OEO17,
Cim19, DSN17, SI16]. Account [ZWQ+16].
Accountability
[GP17a, HM16, KAR+15, NSNF17].
Accountable
[BNM+14, VR15, vdHEM+17]. Accounts
Accumulator-Based [SALY17].

Accumulator-Based ACIDRain, acéphale [TFG17].

ACIDRain [WB17]. ACM [ACM17a, ACM17b, ACM17d]. ACNS [IKY05]. Acquire [RS14].

Across [BGPW16, GCL16]. Act [Pec15]. Active [Goo18]. Activities [ME17]. Activity [BLMR14, RMR18, YNS16].

Activity-Based [YNS16]. Ad [CGFH16, LMH16]. Ad-hoc [CGFH16, LMH16]. Adaptable [LX17]. Added [WLSZ17]. Adding [DGHK17, Drec17z]. Address [EPY17, FPKH17, HM16, NH17, WLY17, Goo18].

Addresses [Cha81, GCL16]. Addressing [DNP17]. Adhocracies [Ul16]. Adjusting [KJ17, KJ18]. Admin [Cim19].

administration [AR15]. Adoption [BBB15, Böhl13, Mei18, SVL17, Str18, WCX16]. Advances [CRS83, OF15].

Advancing [BLBS17]. Advantage [PR16]. Adversaries [KDF13]. Advice [Far18b].


Against [JLG+14, ZP17b, Bee16, EBG18, YSLH17].

Age [Tay13, Fin17b, VC15a]. Agenda [GK14, CRDK16]. AI [BT18a, DT18]. Air [Ro13]. Akteuell [Six17a]. Algorithm [DLL97, Pop16a, SYB14, Ste17, Che18, DLL00, HZLH19]. Algorithmic [BT18a, LN15, GS15a]. Algorithms [Bik16, vM18, Fin17b]. Alle [GH17].

Alleged [Gre13]. Almost [Coe08, IM16]. Along [Mei18]. Alternative [Bhe17a, BLNN17b, But13a, GCD16, Grie11, Hil14, Kel15, KH17]. Among [AABB17].

Am [AABB17]. Amplification [ABF+16]. Analysis [AS14, AC17, BRS17, BP17a, BP14, Chr13, DNP17, EKK+17, FNP17, HQ15, HBBJ14, JLG+14, JCG17, KKM14, KKS+17a, KFTS17, KKS+17b, LJG15, LBS+15, LKL+14, LSH13, MMR16, MC13, NAH16, Ort16, PSS17, Pop16a, RH11, RH13, RS13, Ros11, SIDV14, SL18, TSL+17, TOM17, VTM14, ZZ16, ZDL17a, dBHC17, ALMLS16, Cap15, DMR17a, DMR18, GKL15, GC08, Li14, LZDA16, MM17, NAH15, ML16, ZDL17b].

Analytical [KK17a, KK17b]. Analytics [BLPB17, BS17a, VMMA17, XAZY17, XAZY18]. Analyzing [DY17, SW14, GDP+17, KLM17, LSO+15, ZP17a].

Ancient [Bra17]. andere [Six17a]. Andrew [Ano16b, SM16].

Android [Chi13, Duc13, Seg18]. Announcement [SPB17]. Annual [OF15]. Anomaly [Bog17].

Anonymity [BLSD17, BNM+14, HJ15, JMM14, KKM14, OKH13, RH11, RH13, SM14, VFF17a, VFV17b, WLY17].

Anonymization [WBK+17].

Anonymizing [DS15, WLS+16].

Anonymous [BSCG+14, BK17c, Chr13, GM17, HBG16, MGGR13, ML14, Muf16, SCG+14, MY11, ZMH+17, ZMH+18].

Answers [Pav18]. Anti [Bra13].

Anti-Theft [Bra13]. Anwendung [WLS17].

Anwendungsfall [FRSU17]. apologizes [Gal18].

App [BCM16]. apparent [Osb18a].

Appetite [Pop18a]. Application [Bik16, But13b, CDD17, DXR+17, GGN16, HG15, OOF+17, DNM+17, GL16, ACW17, WLS17].

Applications [BLNN17a, BLNN17b, CM16, GH05, HLC+17a, Kat16, MGM+17, OF15, VMMA17, WDS17, WB17, CK16, CXLC18, DMH18b, ES16, GKL15, Pill16, WDL+18, XLL+19, ZZ16].

Applied [IKY05]. Apply [Int14]. Approach [CSX+17, DH17, HRF17, KK17a, LSH13, MM11+6b, NSNF17, RAH+15, RRM+18, SCYP17, SOA17, XL+19, Bar17, FOA17].

approaches [JO13]. Appropriation [KD16]. Approval [AH12]. Approximate
Basic [Gar17, Lei16, Ber13]. Basics [Dre17b, BP17b]. Basis [HQ15, Six17e, RBM17]. Batching [SS12, SS13]. Batters [Chi13]. Bayesian [DH17, JL17, SZ14]. BC [DKJ19]. BCC'17 [ACM17b]. Be [Kan18, KKS+17c, Bon14b, CEN14, Fai17]. beast [Fai17]. beat [Pec16]. become [CRdK16]. before [Far18a, Uni14]. befuddled [Bar14]. beginner [BDP17a, Pro13, Pro14]. Beginners [Ale18, KRL17]. Behavior [HLC+17b]. behaviours [DMR17a]. Behold [DMH18a]. being [Far18a, Lew15]. Belief [Abr16]. Bell [BW17]. Benchmarks [vM18]. Beneфit [FS16, HB14]. benefits [Uni14]. Bespoke [Tay13]. Betfunding [JCHSR16]. Better [BBSU12, Spo17, WM18]. Between [LJG15, Nis16b, KCS+14]. Beware [MC13]. Beyond [Bec18, GCD16, HS16b, HS16a, Øhn16, Trol15a, TS16, Uli16, BGPW16, BT18b, CV18, Und16]. BET [MXC+16, Vuk16]. BGP [XWW17]. BGPCoin [XWW17]. Big [Drei7q, Ito18, Liu16, Pav18, TSTC18, Wol18, XWL+19, Cha85, Kel15, Lee15, LP17b, LP17c, LP18b, Tun18]. billions [Gei16]. Binary [KJ17, KJ18]. Biomedical [MGDEK17, MGDEK18]. Biometrics [KFN+17]. BIPS [Sou13]. Birthday [BK17b, Lar13]. bis [MG16]. Bit [Sza08]. BitBeat [Vig15]. BITCOIN [BCJR15, CSN14, CMR+16, JRB+17, Ano18a, BS17a, BBMS14, Cin18a, Dus14, ES18, MG16, Six17f, Hol18, Aro12, CSG+18, CRdK16, ALP15, ACM15, Ali15, AMLH15, AMLH18, AS14, AF16, ALMLS16, ALPBT17, And14, AKR+13, AK14, ADM14a, ADM14b, ADMM14, ADMM15, ADMM16, AM15, Ano13b, Ano14a, Ano14b, Ano17b, Ano17a, Ano17c, Ano17d, Ano18b, Ano18g, Ant16, Ant15, AZV17, Ast16, AMVA17, ACC+17, BDOZ11, BDOZ12, BMTZ17, BS16, BRS17, BDW14, BHMW16, BBSU12, Bar17, BHI+14, BH15, Bar14, BP17a, BZ17, BLP17, BS16, BDP+15, BBB15, Bec18, BBH+13, Bec16, BS15, BSCG+14, BK14, BLMR14, Ber15, Ber13, Bik16, BKP14, BP15, BOLL14, BMS17, Bla18, BP14, Bö13, BCEM15, BB14, BR16, Bon16a, Bon14a, BNM+14, Bon14b, BMC+15, BC16a, Br15a, Bra13]. Bitcoin [Bra15b, Bra17, BOS15, BC16b, BDW17, BW17, BT18b, Cae15, CV18, CC16, Cap12, Cap15, CKWN16, Car15, Cas12, CK16, CF15, CJW17, CSDL17, Chi13, CP17a, Cha15, CE12, CM14, CP17b, CEN14, CGN14, CEW15, Cou16, CSEC16, Cou13, CS15, Cus14a, Cus14b, DBB+15, DSM+17, DNP17, De18, DW13, DW14, DW15, DGSW15, DS16, DVM16, DSPHJ18, Dev14, DMH18i, DMR17a, DMR18, DS17b, Dim17, Dix17, DS17n, DNS14, DNY17, DSPHJ14, DS15, Duc13, EDS15, Ed14, Edw15, EBHBL16, EPY17, EBSC15, ECHL16, Eva14, ES14a, ES14b, FOA16, FOA17, Fai17, Far18a, Far18b, FNP17, FSW14, FPKH17, Fin17a, Fox17, Fra14, FB17a, FMR+16, Fri14, FS16, G.17, GHMO17, GCL16, GKI15, GKI17, GS15a, Gei16, GGN16, GMS17, Ger16, GKC14, GCRK15, Gve16]. Bitcoin [GK14, Gia15, GCR16, GCR18, Gim16, GAK17, GZH+14, GK17, God15, GGK+14, Gon16, GDT17, Gri11, GS15b, HQ15, HS16b, HS16a, HWDD17, HLC+17a, HC12, Hea13, HBG16, HG15, HBJB14, HJ15, HJPS16, Hili14, Hili15, Hob13, HM18, Hou14a, Hou14b, Hou16, HCW+18, HB14, Hur16, IM16, JL17, JKKX16, JMM14, JZLL17, JLG+14, JSK+17, K.13, KAČ12, KAR+15, KA16, Kar16, Kat17, KBS17, KK17a, Kay17, KRL17, Kel15, Ker14, KCD17, KSCD16, Kha15, KH17, KT15, KKS14, KH16, KCS+14, KKM14, KKS+17a, KD16, KL17, KDF13, KJGW17, Kru13, ...
KB14, KMB15, Kün16, KK17b, KKS+17c, LB18, LMLA17, LJG15, Lee13, Lee15, LW16, LD17, LBS+15, Li14, LZDA16, LKL+14, LT17, LZC+17, LLZ+17, LSH13, LN15, Lut17, LSP+15, CFvdPS15, MMR16, MG16, ML15, ML17]. Bitcoin [Mat13, Mat14, MLM15, MLM16, MHH+16, MSC15, MMHS16, MSH17, MO15, Mic16, Mic14, MGMR13, ML14, MKKS14, MSJ+14, MKKS15, Mil15, MB17, MM17, MK15, Mö13, MM16b, MMT16a, MC13, MBB13b, MB14, MB15, MES16, MBB13a, Mul14a, Mul14c, Mul14b, Mul14e, Mul14d, Mul14f, Mul14g, Mul14h, NC17a, Nak08a, Nak08b, NBF+16, NC17b, NHM16, NAH15, NAH16, NH17, Nic17, Nis16a, Nis16b, OM14, OKH13, Öln16, Ort16, Peo13, Pav18, Pec13, Pec15, Pec16, P’16, PS16, PR16, Pla13, Pop15, Pop16b, Pop17a, Pop17b, Pop18a, Pop18b, PHD+17, Pro13, Pro14, RAH+15, RJK+17, Ras13, RH11, RH13, RR18, Riz16, Ro13, RS13, RS14, Ros11, Roh17, RMSG14, RMS14, SCYP17, SOA17, SI16, San14b, San14a, SSZ17, SK14, SK15, SK17, SCG+14, SMD14, Sch13, SBBR17, SBSR16].

Bitcoin [SZ14, Sha17, SGF+17, Sh16, Sid14, SCA13, Sir16a, Sir16b, Six17a, Six17b, Six17d, Six17c, Six17h, Six17f, Six17i, Six17j, SLY15, SPB17, SZ15, SZ15, SZ17, Son14, SKG12, SKG13, Son13, SMZ14, Ste17, Swa15a, TFG17, TTI16, TTC16, Tay13, Tay17, TD17b, TOM17, TS16, Uni14, Und16, UJ16, Url17, Urrq17, VR15, VG17, Van14a, VCL17, Van14b, VGJ15, VTM14, VMI5, VBC+17, Vel16, VTL17, VFV17a, VFV17b, VC15a, Vg15, VC15b, VDK16, VD17, VX17, VSM+19, Vra17, WL15, WLY17, WHJ17, WQHX17, WLS+16, Wij16, WA15, Wb14, Wör16, WQZ+17, YK15, Yeo15, YV17, YSLH17, YSZ+19, ZW15, ZP17a, ZP17b, ZG15, ZC16, ZWQ+16, ZGTT16, ZDL17a, ZMH+17, ZMH+18, Zoh15, ZGR17, dBC17, drc14, Ano16b, SM-16]. Bitcoin-Based [Van14b, HCW+18]. Bitcoin-Exchange [MC13]. Bitcoin-Handbuch [MG16]. Bitcoin-like [VG15]. bitcoin-mining [Hol18]. Bitcoin-Netzwerke [Six17b]. Bitcoin-Ökosphäre [Six17a]. Bitcoin-Related [KCD17]. Bitcoin-Systems [Six17i, Six17j]. Bitcoin/USD [HG15]. Bitcoins [DL17, ZDL17b, AF16, AFMD14, BDE+13, Brüt17, Cap15, ES16, Gre13, Hol15, MY11, Mcl13, Mc13, MPJ+13, MPJ+16, RKS15, Six17e, ZGH+15]. BitConeView [BDP+15]. BitExTract [YSZ+19]. BitIodine [SMZ14]. bitstrings [HS97]. Bitter [BBSU12]. BIX [Muf16]. Blockchain [vdHEM+17]. Blind [Cha83, WZQ+17]. Blindcoin [VR15]. Blinded [VR15]. Blindly [HBG16]. Block [BS16, BRS17, CKWN16, OAB+17, SPB17, TSL+17, ZP17a, GK17, Ler14a, PB17]. block-chains [Ler14a]. Block-Withholding [SPB17]. BLOCKBENCH [DWC+17]. Blockchain [ACM17b, AK17, ABR17, AKP17, AKP18, ACW17, ARBK17, Ale8, AvM18, ABL18, Ano18c, ATD17, AMVA17, ACC+17, AC17, BABD17, BT18a, BLPB17, BART17, Bec18, BR17, BDP17a, Ber17, BLS17, BSV17, BK17a, BK18, Bhe17a, Blo18, BCM16, BKM+17, BC16a, BO17, Brüt17, BFS17, BFS18, BLNN17a, BLNN17b, Ca15, CDD17, CCMN17, CG16, CR17, CBWF17, CJ17, CXS+17, CQAL8, Cob17, Dani17a, DNP17, DW18, DMH18b, DMH18c, DMH18d, DMH18h, DMH18k, DMR17b, Di 17, DT18, Dre17b, Dre17m, Dre17p, Dre17x, DF17b, DXR+17, DP18, DF17a, ET17, EZ17, EZ18, Eya17, Fai17, FNP17, Fot17, FRSU17, Gar17, GANAHHJ17, GBPDPW17, GBSSA17, Ger16, GR17, GCD16, God15, GL16, Hal18, bAHRAK17, bAHRAK18, HL16, HBG16, HHK18, HJP16, HS17b, HS17a, HS17c, HS17d]. Blockchain [HSB18d, HSB18f, HSB18e, HSB18g, HSB18h, HSB18l, HP17, HP18, HTCW17, HTCW18, HLC17c, Hul17, Hur16, HRF17, IPS17,

Cloud-Based [HS16c]. Clouds [KZVT17, MKGT16a, MKGT16b].
Clustering [EZ17, EZ18, EPY17, FOA16, NH17, HLC +17, Urq17]. Co [Blo18, GR17, BBBB15].
Coalitions [MKKS14, MKKS15]. Code [FB17b, SCAA13, DW18, Ger16, NH17, HLC +17b, Urq17]. Co [Blo18, GR17, BBBB15].
Coinbase [KRL17, Far18b, GCD16]. Coincheck [YWS +18, Gal18, Nak18, WREK18, WSZN18, YWW +18]. CoinDash [Osb18a].
CoinDesk [Sup16, Vig15]. CoinParty [ZGH +15]. Coins [Ros12, RKS15].
Coinsecure [Cim18a]. CoinShuffle [RMSK14]. CoinTerra [BH15, BHI +14].
Collaboration [NOT15]. Collaborative [RBL +17]. Collapse [K.13, Sch14b].
Commercial [Ger16]. Commissioning [HS16c]. CommitCoin [CE12].
Commitment [CS15]. Commitments [CE12]. Common [DDX17].
Communication [BLS17, FDT17, FF17, WCL17, vdHEM +17, AR15].
Communications [ACM17a, Bra13].
Community [Kee16, RRM18, VGJ15, BB14]. Compact [SBR16, SALY17]. Comparative [SL18, DSM +17].
Comparison [SCAA13, Kat17]. Compatibility [SBBR17, ZGR17]. Compatible [ZP17b].
Complete [Wil13]. Complex [VA15].
Complexity [Bhe17b]. Compliance [ECdO17, Lyn14]. Components [SD16a].
Composable [BMTZ17, JKXK16].
compraventa [HA15]. Comprehensive [RMS17, NBF +16]. Computation [CGJ +17, ET17, EL14, KB16, KVV16, LSP +15].
computational [Li14].
Computations [ADM14a, ADMM14, KB14, vdHKZ14, ADMM16, Bee16, HCW +18].
Compute [But13a]. Computer [ACM17a, LTKS15, Son16, Wor16].
computers [Goo18, Hol18]. Computing [DMH18g, Her17, LSH13, Wei18, Fin17b, Her19]. concentration [LP18c]. Concept [HSB17a, HSB18c, SDK +17].
concepts [BGW16]. concerned [Far18b]. Concluding [Gev16]. Conclusion [HSB17b, HSB18f, Mor17g].
Concurrence [DGHK17, MMSK +17, WB17].
Concurrency-Related [WB17].
Concurrent [OR17, RLT17]. Condensed [JW16a]. Conference [ACM17a, ACM17c, GP17b, Ker12, OF15, Sad13, IKY05, Jue04].
Confidence [MG17]. Confidential [CZJ +17, NT16, CMS17]. Confidentiality [OR17]. Configurations [RC16].
Confirmation [KK17a, ZGTT16]. Conflict [NOT15]. Conflict-Resolution [NOT15].
Conflicts [LMLA17]. Congestion [KJ17, KJ18]. Congressional [Dus14].
CONIKS [Bon16b, MBB +15].
Connections [HBJB14]. Connectivity [CGFH16]. conscience [Osb18a].
Consensus [BLP17, JXK +17, Kao14, LTKS15, ML14, MHWK16, PS18, Poe14, SYB14, XLM +17, ZP17a, vM18, KKS +17a, Kra15, Kra16a].
considerations [Dus14]. Consistency [DSW16, Sir16a]. consistent [RST11].
consortium [HCLH19]. Constant [BZ17, Coe08]. Constant-Deposit [BZ17].
Constant-Effort [Coe08]. Constrained [HS16c, vHMM +17]. constructing [Gim16].
consumer [Blo18]. Consumers [Ed14].
Consumption [Bon14a]. Contained [Pia16].
Content
9

[KT15, MHH+16, XJR+17]. Contest
[Dim17]. Context [KLL+15]. Contingent
[CGGN17]. continue [Ker18b]. continuous
[DB16]. Contract [AB17, ABBS18, BCM16,
But13b, HLC17c, Pia16, ROH16, Swa16,
THF17, XJY17, XSC+17, THF17].
Contract-based [AB17]. Contracts
[ACM17b, ADM14b, ABC17, BMNH17,
BDF+16, BK17, Blo18, BS17b, BS18,
DGK17, EMERHI17, HBG16, IGRS16,
JKS16, KUEE17, KUEE18, Kön16, LCO+16,
Mor17j, NMin16, NPS+17, PP16, RBL+17,
SW17, VTL17, ZCC+16, Gia15, Lev17].
contribute [SYZ16]. Control
[BLBS17, DM17b, McL13, MC17, OEO16,
OEO17, YWJ+16, Ker18b, Kra15, Kra16a].
Controllable [ZWGC19]. Controlled
[CR17]. Controls [Smo18]. Conventional
[Mer88]. Cooperative [LBS+15].
coordinator [VB08]. Core
[Dre17f, VCLK17]. CORFU [MBD+12].
Corporate [Yer17]. Correct [KB14].
correlation [VX17]. Cost
[Ast16, Bac02b, LD17]. Cost-Functions
[Bac02b]. Could [CEN14, DFR+17, NH17,
FS16, KH16, LP18c, Tun18]. counter
[Bac02a]. Countermeasures
[AAG17, LKL+14]. Counting [Fin17a].
Countries [Ano18d, OA17, AR15]. Coup
[MK15]. Course [JW16a, JW16b].
Covenants [CP17b, MES16]. Cracking
[VSM+19]. Crash [JW16a, JW16b, Edw15].
Created [Pav18]. creates [Ole18]. creation
[VG17]. Credentials [CDD17]. Credit
[Kat16]. Crier [ZCE+16]. crime
[Far18a, UJ16]. Crimes [KCD17]. Criminal
[JKS16, Hol18, Tun18]. Cryptovalute
[Cap15]. Critical [PF18, dCdCM14]. Cross
[OOF+17, WCL17]. Cross-Chain [WCL17].
Crowd [BLNN17b, SVL17]. Crowd-Based
[BLNN17b]. Crowdfunding
[BO17, JCHSR16, Z16]. CRYPTO
[CRS83, Ale18, CXS+17, Cou14, GCR18,
Gom16, Kan18, Ker18a, KN12, Lin15,
McK19, WSZN18, BHI+14, Cae15, RSW96].
crypto-currencies [Cae15].
Crypto-Currency
[Ker18a, KN12, CXS+17, BHI+14].
Cryptoassets [BT18b]. cryptocoins
[Tun18]. Cryptocurrencies
[ACM17b, AS14, AZV17, BMNH17, BBBBB15,
BCA+15, CR16, Dz15, GANAHI17, GCR18,
HQ15, JB17a, JSK+17, NMH16,
RC16, Zoh17, Ana13a, Ana18a, CV18,
Cro18, G.17, Kug18, Rot17, Cap15].
Cryptocurrency
[Abr16, Ana16b, Ana17e, Ana18e, Ana18j, BHI+18,
BBM+18, CCNM17, Eya17, Ker18b, Kin13, LH17,
SLS14, Osb18a, RM19, Roo18, SM+16, SL17,
SAY17, VCL15, WREK18, YNS16,
YWW+18, YWS+18, Abe18, Bar18, Cim19,
Gal18, Goo18, It18, NBF+16, Ole18,
Osb18b, Pal18, VCL15a, Abr18].
Cryptocurrency-Executive [WREK18].
Cryptocurrency-stealing [LS14].
cryptoeconomics [BDP17a].
Cryptographic [GADO17, GCR16, GP17a,
GG17, JW16a, JW16b, Mun16, OF15].
Cryptography [CSN14, DH76, Fra14,
JRB+17, Ker12, Sad13, BM14, BCR15,
CMR+16, GP17b, I050, Jue04, WH17].
cryptojacking [Ker18b]. CryptoLocker
[LZDA16]. Cryptology [CRS83, OF15].
cryptomining [Seg18]. cryptosystems
[Mer80]. Crystallization [KL17]. Cuckoo
[Tro14a, Tro15b, Tro14b]. Cultural [KD16].
Cure [JZS+17]. Currencies
[Ano18d, Cou14, GK14, GM17, Hil14,
JW16a, JW16b, Mor17a, Pas15, Spr13,
TS16, Ale18, Cae15, Crr16, HS16a, Kel15,
Lau11a, Lyn14, WLS17]. Currency
[ACM15, Ali15, Ana12, Ana18b, Ana19,
BBSU12, BBI+13, Car15, EL14, Eva14,
G05, GKK14, GZH+14, Grl11, Int14,
Ker18a, KN12, Lau11b, LCL17, LSH13,
MY11, Mul14b, Pav18, Swa15a, VG15,
VM15, AF16, BHI+14, Bra15a, BOS15,
CX+17, CRdK16, Dus14, FB17a, Hol15,

[AGGM16]. Detection
[Bog17, DH17, LZC+17, MMT16b, RRM18, CEW15, LW16, MMT16a, VD17].
detections [CZ16]. Determining [KRL17].
Deterministic [DCK17, GS15b]. Deterring
[KT15]. developed [AR15]. Developer
[Ano17b]. developers [Lee13]. Developing
[Lim18, FRSU17]. Development [AKP17,
AKP18, DSN17, HS16d, Lei16, Bra15a].
Developments [DMH18k]. Devices
[HS16c, LMWL17, ÖY17, HCW+18, LL16,
LL17a]. dezentrал [Six17e]. Dhabi
[ACM17a, ACM17b, ACM17d]. diced
[Nic17]. Did [RS14]. Dies [McK19].
Difference [Nis16b]. Differences [Mul14c].
Difficulty [GKL17, Kra15, Kra16a, MCJ17].
Digital [AKP18, ACV17, BBM+18, Cha81,
EL14, Gev16, GK14, Gni11, KT15, KKS14,
LPSZ18, Mer88, MK15, Mor17h, OZ16,
Pav18, Pop15, Pop16b, Smo18, Spr13, TS16,
Vel16, Zel16, Bar18, BHS93, BGPW16,
CJW17, CrdK16, Goo18, HS91, HS16a,
Ker14, KH16, Lee15, Pan96, RBM17, TF16,
Uri17, VC15a, VC15b, AKP17]. digitalen
[Ker14]. digitaler [RBM17]. Dilemma
[Eya15]. Dilemmas [KKS+17c].
dimensions [Hal18]. Diplomacy [Ber17].
Directed [RJK+17]. Directions
[DH76, HHK18, PPMT17, Son16]. Diritto
[MS15]. Disambiguating [Dre17c].
Discontinuity [TSCT18]. Discouragement
[MKKS14, MKKS15]. Discovering
[Dre17f, EZ17, EZ18, TSCT18]. Discovery
[ACW17]. Discuss [FF17]. Discussion
[Ali15, HSBI7c, HSB18g]. Disincentivize
[ES14a]. Disk [GL00]. Dispute [BT18a].
Disputes [ABL18]. Disruption [BBB15].
Disruptive [DT18, FRSU17, GR17].
disruptive [FRSU17], Distributed
[ALPBT17, AKGN18, AABM17, Brü17,
CZJ+17, EGB18, ECDO17, EG17, HL16,
HLC+17a, Her17, Hui17, JCHSR16,
KMOD17, KYV19, LDWS17, Laut11b, LS17,
LLW17, LSP+15, MGM+17, Mei18,
MGGR13, NST+17, Poe14, RLT17, SD16b,
Str18, TD17a, Wat17, Wei18, ZWQ+16,
BS15, CK16, Her19, PLSS17, ZWH18].
Distributing [Dre17g]. Distribution
[Ye15]. diversification [BOS15]. Divide
[Bra13]. Divisors [DDX17]. DL’17 [Spo17].
DLoc [ECDO17]. DLT [Lim18].
DLT/Blockchain [Lim18]. Do
[SIDV14, Kug18]. Docker [XJR+17].
doctoral [HA15]. doctrinarias [HA15].
document [HS91]. Documentation
[Ano17b]. Documenting [Dre17h]. Does
[HSB17c, HSB18g, SFG+17, Ste17, Ano17d,
Fai17, RE18]. Domain [JB18, RBS17].
Dominant [AC17]. Don’t
[MHH+16, Pal18]. doors [LZDA16].
Doppelganger [KKS+17b]. DoS-resistant
[Vo11]. Double [DNY17, KAC12, KAR+15,
LZC+17, aNOE17, PR16, DB16, YSLH17].
Double-Financing [aNOE17].
Double-spend [PR16]. Double-Spender
[DNY17]. Double-Spending
[KAR+15, LZC+17, KAC12, YSLH17].
Down [Son14, Vig15, Zet13, Sha17]. DPM
[GANAHHJ17]. DPS [FF17]. DPS-Discuss
[FF17]. Drain [VBC+17]. Draw
[Ano18j, Ole18]. Dread [RS14]. Dreamers
[DMHI18a]. Dreams [Eya17]. Drive
[BS17a, BK18, Seg18]. Drive-by [Seg18].
Driven [HSB17b, HSB17a, HSB17d,
HSB18f, HSB18e, HSB18h, DMR18].
Drones [SYK17]. Drug [Zet13, Geo16]. Dry
[LJG15]. DSA [GGN16, GGK+14].
DSA/ECDSA [GGN16, GGK+14].
Dubious [Roo18]. Due [Ami16, McL13].
dumber [Ito18]. dummies [Ant16]. d’une
[San14b]. Duplex [DW15]. Duplication
[KKS+17b]. during [Osbi18a]. Dutch
PdWWS16. dwelved [UJ16]. dynamic
[Bar17, DB16, KUE17]. Dynamically
[KJ17, KJ18]. Dynamics
[EDS15, Bha18, GKH17].
E-Cash [MGGR13, BB15, Nak08b].
EUROCRYPT [OF15]. Europe [Ker18b].
European [Gim16, LD17]. EV [HZLH19].
Evaluating [AKR+13]. Evaluation [ACW17, DCK17, FOA16, IGRS16]. Even [Ler14a, VM15]. Event [Hul17].
Even-based [Hul17]. eventual [Sir16a]. ever [Cim19, Fail17]. Everyone [GH17].
Everything [Kar18a]. Evidence [DVRM16].
Evil [Kru13]. Evolution [FPKH17, KBS17, Kiin16, Smo18, Tay17, WL15, OC16].
Examining [KCD17, VBC17, Uni14]. Exchange [CC16, HG15, JMM14, MSCH15, McK19, MC13, RJK+17, YSZ+19, Abe18, Cim19, WHJ17, Cim18a].
Exchange [BBZ+15, DGSW15, Son14, WSZN18, K.13].
Exchanging [WvB14]. Exclusive [WREK18].
Executing [SCA13]. Execution [EMEHR17, GBP17, SCA13, WXR+16].
Executive [WREK18]. Expected [Sid14].
Experience [Riz16]. Experiences [KJGW17].
Explaining [BWZ17]. exploited [Fir18].
Exploiting [MHH+16, DMR18].
Exploration [LC17, SK17, BB14].
Exploratory [BO17, LW16]. explorer [KK17b].
Exploring [CXLC18, KSC16, OOF+17, SK15, WL15, Gom16]. Extended [BLMR14, Hul17].
Extending [BLMR14, FYK+17, Wij16]. extension [Bak09]. External [WBK+17]. Extracting [SMZ14, YSZ+19].
Extremism [Lut17].
Fabric [BSV17, Vuk16]. Facebook [ds17a].
Facilitate [NH17]. Facilitative [KCD17].
Factor [ML15, ML17]. Factors [KCD17, ZDL17a, ZDL17b]. Facts [EDS15].
Fair [ADM14a, Ast16, BK14, BC16a, CGJ+17, HLC17c, JMM14, MBC+17b, PS17, Pia16, YSLH17, Bee16, HCW+18].
Fair-Exchange [JMM14]. Fairness [CGJ+17, GDTP17]. Full [Son14]. falls [Lee13].
Fambit [HRE17]. far [Goo18].
Farming [PTPR17, PTPR18]. Fast [DW15, KAČ12, Lin17, LZC+17, SCA13, SZJ17, SZ13, Uiri17, VB08].
faster [CEN14, Ler14a]. Fault [BSV17].
Fault-tolerant [BSV17]. FAW [KKS+17c].
FBI [Gre13]. FC [BBMS14, BCJR15, CSN14, CMR+16, GP17b, JRB+17, Yue04, Ker12, Sad13].
Fears [HM18]. Feasibility [JCG17, SL18]. Features [Bog17, Cou16].
February [CMR+16, GP17b, Yue04, Ker12].
Federal [Int14].
Feds [Zet13].
Fee [GCD16].
Feed [KBS17].
Feeding [Fai17]. Feel [SID14].
Fees [MB15]. Felten [Ano16b, SM-16].
ferenda [Kü16]. Fi [SI16]. fiat [G.17].
Fiction [Lin15]. fights [Tun18]. Filters [GCK14].
Finance [Bhe17d, Edw15, Eya17, HSB17b, HSB17a, HSB17c, HSB17d, HSB18a, HSB18b, HSB18f, HSB18e, HSB18g, HSB18h, HSB18i, TBY17].
Financial [Ami16, DMM18, EMEHR17, HRF17, JB17a, JMK17, TSTC18, K.13, Lee15, Lew15, LMR17, LP18c, Six17d, VX17, BBMS14, BCJR15, CSN14, CMR+16, GP17b, JRB+17, Yue04, Ker12, Sad13].
Financing [Anne17]. Finanzindustrie [Six17d]. Findel [BKT17]. finding [Lar13].
Findings [BBBB15]. finds [Aro12, Edw15].
Firmware [LMLW17, LL16, LL17a].
First [BH15, BP14, DPA18, Pal18, PL16, Sf17, Ano17a, BHI+14, EBSC15, Ker18b, SKG12, YV17].
First-Generation [BH15].
Fishes [ZW+17]. Fistful [MPJ+13, MPJ+16]. fix [Lec13]. FL [Jue04].
flame [Cae15]. flash [MBD+12].
flash-speed [MBD+12]. flaw [Duc13, Fir18].
flaws [FB17a]. flexible [DKJ19]. Flow [BS17a, YK15]. flows [BDP+15].
Fluctuations [EDS15]. Focus [TKW15].
fog [HCW+18]. folly [Sch14b]. footprint [OM14].
Forecasting [YK15]. Forensics [NHM16].
Foreseeable [ATD17]. Forging [Pop16a].
Fork [KLM17, KKS+17c]. forkable [WDL+18].
Forkbase [WDL+18].
Forks [LK17]. Formal [BDLF+16, Son16].
Formalized [CXS*17, LN17]. Formalizing [AKGN18, Wel18]. Fortune [Pop17b].
Found [Kec16, Pop17b, YWJ+16].
Foundations [DMH18b, Gom16, HMS17].
Founder [McK19]. Founding [EL14].
FowlerNollVo [VFN91]. FPGA [SNM17].
Fractal [DVRM16]. fractality [LB18].
Fragen [BP17b]. Fragmentation [Bhe17d].
Framework [AvM18, BLPB17, DWC+17, HL16, Las17, aNOE17, PTPR17, PTPR18, RS17, SK15, Gim16, JAK19, VCS03].
Fraud [CZ16, CBWF17, HRF17, Kru18, MMT16b, RRCL17, Kra18, MMT16a, VD17].
fraudulent [LW16]. Free [SPB17, VM15, Six17f]. FreeBSD [Ano18b].
freedom [TF16]. Frees [Hou14b]. Freicoin [TF16]. French [San14b, TFG17].
Frequency [Via16]. Friends [AMVA17]. frozen [Cim19]. FruitChains [PS17].
Fuel [Car15]. Fulfillment [Nis16b]. Full [Ano18b, HSB17c, MMR16, RS13].
Function [Bac03, Mer88, VFN91].
Functional [OOF*17]. functionality [Wij16]. Functioning [Ker14]. Functions [Bac02b, Ler13, SBBR17, Per09].
fund [Pan96]. fundamental [CF15]. Funding [BDW17, LHZ17]. funds [Cim19].
funktioniert [RE18]. Funktionsweise [Ker14, RE18, Six17h]. Further [Dre17u].
Future [BBB15, BK17a, BK18, Car15, EGB18, Her17, JKS16, MDAP16, MAP16, PP16, Son16, Fri14, SKG13]. fuzzy [Chel8, WZQ*17].
Gamble [Roo18]. Gambling [MCH17, MMH17]. Game
[Hou14a, Hou16, JLG+14, Kra16b, LJJG15, LBS*15, Ort16]. Game-Theoretic
[JLG+14, LGJ15]. Games
Gateways [YWJ+16]. Gave [Pav18].
geautomatisiert [PdWWS16]. Geld
[Möl13, Cap12]. Geldwährungen [WLS17].
Geleit [LPW17a, LPW18, LPW17b].
General [BLPB17, Int14, SV16, DB16].
Generalized [BK17b], Generals [LSP82].
generated [Goo18]. Generating
[BBM+18]. Generation [AMLH15, BH15, But13b, OA17, AMLH16, BHI+14]. genius
[Ge16]. Genomic [KPK17]. Geospatial
[FHS+17]. German
[ABR17, Ale18, Ano16a, Blo18, BP17b, Capi2, Dix17, DF17b, FRSU17, GH17, HP17, Ker14, KFR17, LPW17b, MG16, Mö13, PB17, Plaa13, RE18, RBM17, San14a, Six17a, Six17d, Six17c, Six17h, Six17f, Six17i, Six17j, SKG12, SKG13, Stoa17, WLS17].
Geschäftsmodelle [RBM17]. Get
[WM18, Cim19, Pec15]. GHash.io [Mat14].
GHOST [KKS*17a], Gibbard [Ano18b].
Gifted [Ro13], giuridica [Cap15]. Giving
[Ano19]. Glimpse [LMLA17, Pav18].
glitch [Lec13]. Global
[ACM15, Ali15, MMR16b, Mul14b, Yeo15, CV18, CRDK16, VC15a, VC15b]. Go
[BS17a, Fai17]. Goals [AKP17, AKP18].
Going [Dre17u, GCD16]. Gold
[BBB+18, DMM18i, Cap12, Nis16a, Pop15, Pop16b, Sza08]. Goldfeder
[Ano16b, SM-16]. Goldstrike
[BHI+14, BH15]. Columbium [Lut17]. gone
[Nic17]. Good [AKP17, AKP18, BP15, WA15, Bon14b, Ito18, Plaa13]. Got [Ro13].
Govern [RRD17]. Governance
[ACM17c, BCEM15, Mor17b, QFLM17, ROH16, Yer17, CV18]. Governed
[LDH17, NOT15]. Government
[OA17, Ohn16, OJ17]. Grand
[Far18a, Ort16]. Graph
[DHES16, FPKH17, MMR16, OKH13, RS13, ZG15, BD*15, DMR17a, DMR18, Tro15b].
Graph-Based [ZG15]. graph-theoretic
[Tro15b]. Graphene [OAB*17]. Graphics
[Ze16]. Gratis [Six17f].
Gratis-Bitcoin-Ökosphäre [Six17f].
Great [WA15]. Green
Grid

High-Rate [SZ15]. High-Throughput [MPSP17, SS12, XLM+17]. Highlights [Sup16]. Highly

Highly-Efficient [JKXX16]. highway [Gal18]. Hijacking [AZV17]. History [AMVA17, D13, Hill14, Abe18]. Hit

Ker18b, Lee13. hitchhiker [Wal19]. hoc [CFGH16, LMH16]. HOL [ABB18]. Hole

hopes [Pal18]. hoping [Hol18]. hopping [CK16]. Host [Ro13]. Hosts [SD16a].

Hours [Cim18b]. House [PTPR17, PTPR18]. Hub [BK+17]. huge [Hol18]. Human [PHD+17, Har17].

Hundred [Uni14]. hybrid [HZLB19]. Hype [Per17]. Hypergraph [RJK+17].

Hyperledger [BSV17, DMB18]. Hyperpubsub [ZZJ17].

I.R.S. [HM18]. I/O [Dry14]. IBM [MDN+18]. Iceland

[Ano18g, Far18a, Hol18]. Icelandic [Far18a].

ICO [It18, Osb18a]. Idea [BP15, Nis16b].

Identification [TM17, Cha85]. Identifying [Dre17]. Identities

[ACC+17, Smo18]. Identity

[AK17, AB17, AABM17, DP18, FR16, Hall17, LN17, LLW17]. Identity-Based [LLW17].

IEEE [ALP15]. if [Fai17, Far18b, LP18c]. II

[HSB18c, OF15]. III [HSB18d]. im [ABR17]. Images [Vial16, XJR+17]. Imaginaries

[KL17]. imagination [Fin17b].

Immediately [Ro13]. Immune

[LZC+17, Xu16]. Immutability [EN17].

Impact [ATD17, Blo18, LG15, SGF+17, Smo18, MLM15]. Implants [Mic16].

Implement [PL16]. Implementation

[FDNP17, Bac97]. Implementing

[AKGN18, CC16, Wel18, YNS16, vS02]. implicated [Duc13]. Implications

[TSL+17, dDeCM14, MGM+17]. imported
16

[XLL+19]. Impossibility [GG17]. Impossible [Poe14, Lau11a]. Improve [FOA16, Riz16, FOA17], improvement [ALMLS16, HC12]. Improvements [KVV16]. Improving
[BHS93, CWL17, BR17]. In-Browser [Abr18]. Incentive
[HLC+17a, SBBR17, ZGR17]. Incentives [JMK17, LTKS15, SZ17, SZ18]. Incentivize [KB14]. Incentivizing [LK17]. Incontestable [ZGGT16]. inconvenience [Gal18]. Increased [GK17, LP18c]. Increasing [SMD14]. Independent
[LHZ17]. Index [Hil15]. Indexing [TD17a]. Industrial [LSFK17, Ker18b]. industrialise [BDP17b]. Industry
[BR17c]. Innovation
[RRD17]. institutional [BDP17a]. Institutions [DdFP18, BGW16]. instruments [Lee15]. insurance
[VMM17]. Integer [DDX17]. Integrating [ÖY17]. Integration [DT18, Bit09]. integration/staging [Bit09]. Integrity
[BBH+13, Dre17, EBHBL16]. Intellectual
[Ze16]. Intelligence
[SMZ14, YWJ+16, YSZ+19]. intelligent
[SK18]. Intensive [SDT17]. Intent
[KLL+15]. Intentions [GZH+14]. Inter
[SYK17]. Inter-Service [SYK17]. Interaction [Fot17]. Interactions
[Kra16b, OR17]. Interactive
[Hir17, YSZ+19, ZGGT16]. Interconnectivity [HQ15]. Intermediation [KET+17]. International
[ACM17c, ACM17d, CMR+16, GANAHHJ17, GP17b, JB+17, Ker12, OF15, Sad13, BCJR15, IKY05, Jue04]. Internet
[Böhm13, CV17, DGP17, HL16, Ksh17a, Ksh17b, LL16, LL17a, McM13, Mic14, PP16, QFLM17, Sve17, XAZY17, XAZY18, ZW17]. Internship [HMS17]. Interoperability [CWL17]. Interoperable [Lim18]. interplay [KCS+14]. Intricate [Bhe17c]. introduced [Ano17a]. Introducing
[Dan17b, JB18]. Introduction
[Dzi15, HSB17d, HSB18h, JSK+17, Kat16, MY11, NBF+16, ZFY16, ZFY17]. Inverse
[EDS15]. Investigating [JKS16, RC16]. Investigation
[VCLK17, WRB15, ZG15, CF15, KK17b]. Investment
[Ano18j, Pop17a, Sup16, TOM17, KH17]. investor [BT18b]. investors [Lew15]. Invitation [BK17c]. Invitation-Based [BK17c]. Invited [Gar17, Zoh17]. IoT
[ACM17d, ADA17, BLNN17a, DKJ17, KS18, LDWS17, LSM17, MBC+17b, OEO16, OEO17, ÖY17, SD16a, SBHD17, WDLS17, ZW15, ZW17]. IoT-based [LDWS17]. IoTPTS’17 [ACM17d]. IP
[AGGM16, Gia15]. IPFS [ADA17]. Irrefutable [FDT17]. Irregularities
[RDDL17]. IRS [Far18b, int14]. Isabelle
[ABBS18, Kam17]. Isabelle/HOL
[ABBS18]. isn’t [BP15, Ito18, SK14]. Issue
[Ano18h, Mat14, WSZN18, ZFY16, ZFY17].
Issues [Bon16a, bAHRAK17, bAHRAK18, VGJ15, BB15, DSM+17, Lyn14]. Italian [AF16, Cap15]. Ivy [Gei16].


Kademlia [MCD15]. KARMA [VC03, GH05]. Keep [WM18]. Kernel [WRB15]. Kernel-Level [WRB15]. Key [Bon16b, GS15b, Jue04, Kee16, MSCH15, CSC16, DSPJ11A18, EBSC15, MBB+15, Mer80, Per09].

Keyless [EN17]. Keynote [HM16, Spo17].

Know [AN16b, SM-16].

Kodak [Ano18b, Bue18, Roi18]. KodakCoin [Bue18]. konnen [KFR18, KFR17].

Kralendijk [Ker12].

Kryptowahrungen [Ale18]. Kudos [SD16b]. kurz [Pla13].

Labeling [NPS+17]. landscape [LS14].

Language [Coh17, HBBD14, O'C17, Wo18].

Large [Ch13, ESI4a, SIDV14, SJ17, WLX17, vdHZ14, DCLK19].

Large-scale [SIDV14, SJ17, WLX17].

Last [Bue18, ZGR17]. Last-Gasp [Bue18].

Lattice [ES16]. lattice-based [ES16].

launch [Fir18, Osh18b].

Launching [Wo18].

Laundry [DBHC17]. law [Ano16a, DW18, Lev17, EDS15].

Lawful [WBK+17]. Laws [GP17a, McL13, Mic14].

Layer [LZY+17]. Layers [Dre17v].

LD [Spo17].

LD-DL’17 [Spo17].

lead [Hol18].

League [Gei16]. Leakage [GS15b]. Leaks [LL17b, LL17c]. Learn [HBS17b, HSB18f].
KJ17, KJ18, Kwo14, KKS+17b, LJG15, LBS+15, LL17b, LL17c, LSP+15, Mat14, MKKS14, MKKS15, Mul14e, RJK+17, Ros11, SCYP17, SSZ17, SBBR17, VTL17, ZWI+17, ZP17a, ZP17b, ZGR17, BHI+14, CEW15, Dev14, ES18, Goo18, Hol18, KDF13, OM14, Ole18, Tro15a, VDK16, Nic17.


Non-Repudiation [FT17]. Non-Users

Password-Protected [JKKK16]. Path [LCL17, Mei18]. Pattern [RJK+17, TOM17, HLC+17b]. Patterns [EZ17, EZ18]. PAXOS [DLL00, DLL97, GL00, HMS17, Lam01, MBD+12, MSP17, PLSS17, RST11, Ros03, SS12, SS13, VA15, VB08]. PaxosStore [ZLX+17]. Pay [Ede14, HSBl7d, HSBl8h, ZGR17, BDE+13]. Paying [Dre17]. Payload [Kan18].

Payment [AH12, CGFH16, DW15, EKK+17, GM17, KG17, Lei16, LZC+17, MMSK+17, MSSH16, MSH17, RLT17, Sch98, Sou13, CJSW17, Kha15, ZWX+19].

Payment-Channel [MMSK+17]. Payments [AM15, BSCG+14, Bon16a, CGGN17, Cha83, DNSY14, DNY17, Gev16, Gom16, KAC12, MPJ+13, SCG+14, Bar18, Gimp16, HCW+18, MPJ+16]. PayWord [AH12, RS96a, RS96b]. PCS [KLR+17b].

Pedigree [NC17b]. Peer [Ano17a, CVM17, CS15, GH05, KN12, NAH16, SOA17, SZJ17, FOA17, Nak08a, NAH15, TF16, VCS03]. Peers [Dre17].

Peer-to-Peer [Ano17a, KN12, NAH16, SOA17, CS15, GH05, SZJ17, FOA17, Nak08a, NAH15, TF16, VCS03]. Peers [Dre17]. Penalizing [KKS15]. Penalties [KB16, KV16]. People [BSB16].

Peppercoin [Riv04]. Perceptions [GCL16].


Permissioned [EN17, HS16c, Vuk17, ZZJ17]. Personal [LN17]. perspectivas [HA15]. Perspective [FSW14, Kün16, LD17, Mor17, Mor17g, Sir16b, Sve17, CZ16, Her19, KFR17].


Planning [Dre17m]. Plans [Ano17e]. Plastic [AM15]. Platform [ARBK17, BSV17, BO17, But13b, JCHSR16, KMOD17, SV16, SVL17, WDLS17, Osh18a, Wij16].


poorer [Ano13b]. Popularity [VM15].


Practices [Mor17d, BGPW16]. Pre [KLL+15].

Pre-Search [KLL+15]. Predictable [MLM16]. Predicting [KLL+15].

Prediction [JL17, NTK17]. Predictions [MDAP16, MAP16]. predictor [MLM15].

Preemption [RRCL17]. Preface
[LPW17b]. **Preferences** [NTKS17].

**Prescribed** [ZP17a]. **Presence** [GCR16, KDF13]. **Preservation** [MJS⁺14].

**Preserving** [ARBK17, ACV17, DCK17, DDX17, KLR⁺17a, KLR⁺17b, KMMW17, KUEE17, KUEE18, LS17, LL17b, LL17c, OEO16, OEO17, SVL17, WQH17, DBB⁺15, KUE17].

**Pretty** [WA15, Ito18, Sha17]. prevent [Lew15].

Preventing [aNOE17]. **Prevention** [CBWF17, Peo13, SPB17, Kha15].

**Price** [Bla18, EDS15, GHMO17, Urq17, Edw15, K.13, Lee13, ZDL17a, ZDL17b]. Prices [JL17].

**Prices** [DN93, YNS16].

Prime [Kin13]. **Primecoin** [Kin13]. primer [BC16b].

**Primitives** [GCR16, GCR18].

**Principles** [ALP15, Pil16]. **Privacy** [ACM17d, ARBK17, ADA17, AKR⁺13, ACV17, CBWF17, CVM17, DBB⁺15, DCK17, GANAHHJ17, GCCKG14, Hal17, HHK18, HJPS16, KLR⁺17a, KLR⁺17b, KC18, KMMW17, Kat16, KUE17, KUEE17, KUEE18, KJGW17, LDWS17, LST⁺17, MMSK⁺17, MO15, NTKS17, OEO16, OEO17, PS16, RMS17, SDT17, SVL17, SS17b, WBK⁺17, XSC⁺17, YWJ⁺16, A⁺13, Hea13, LL17b, LL17c, Pec16, WQHX17, WLL⁺13, PB17].

**Privacy-Enhancing** [MO15, Hea13].

**Privacy-Preserving** [DCK17, KLR⁺17a, KLR⁺17b, KMMW17, KUEE17, KUEE18, OEO16, OEO17, DBB⁺15, KUE17].

**Private** [DWC⁺17, ISM17, LSFK17, DSPSHJNA18, Ler14b].

**Privately** [ZC16]. **Probabilistic** [Pop16a].

probably [Lau11a]. **Problem** [BK17b, Dre17f, KJ17, KJ18, LSP82, Bra17, Lee13].

**Problems** [vS02]. **Proceedings** [ACM17c, CRS83, OF15, ACM17a, ACM17d, GANAHHJ17, IKY05].

**Process** [CWL17, MWV⁺18, VCLK17, WX⁺16, KFR17, KK17b].

**Processes** [GBPDPW17, KL17].

**Processing** [DN93, Hul17, PP16, SZ15, SZ13].

**Processor** [BH15, Sou13, BHI⁺14, WLL⁺13]. **Product** [LD17, LX17, KFR17, XLL⁺19].

**products** [SV16]. **Produkt** [KFR17, KFR18].

**Produkt-Sicht** [KFR17, KFR18].

**Professional** [BT18a]. **Profit** [SCYP17].

**Profitable** [SVL17]. **Profits** [VM15].

**Programmed** [Cob17]. **Programming** [CB17].

**Programs** [TOM17]. progress [Ö17]. **Project** [DMH18j]. Projects [BO17, OOF⁺17]. Promise [Fot17].

**Promises** [Rou18]. **Promising** [HRE17]. promptly [Far18b]. **Proof** [Abr16, Ast16, Bac03, BL17, BBH⁺13, BLMR14, BK17b, Coe08, DFKP13, GKW⁺16, Kam17, KN12, Lar13, LABK17, MHWK16, Pco14, SL15, SDA⁺17, Tre15a, Vo11, Vuk16, Dry14, KRD017, Kin13, Shi16, Tro14a, Tro14b, Tro15b, WHJ17, LC04].

**Proof-of-Belief** [Abr16]. **Proof-of-Work** [Bra03, BBH⁺13, BK17b, Coe08, Lar13, SL15, Tre15a, Vuk16, Kin13, Shi16, Tro14a, Tro14b, Tro15b, LC04].

**Proofs** [DBB⁺15, SBR16]. **Propagation** [FAO16, OAB⁺17, SOA17, DW13, FOA17].

**Properties** [Gar17, YK15, DMR18].

**Property** [Int14, Zei16]. proportion [VY17]. **Proposal** [GP17a, SI16, HC12].

**Proposals** [Bra13, EBHBL16, ALMLS16].

**Prospect** [SCYP17]. Prospects [Hil14].

**Protect** [JKKX16, RS14]. Protected [JFKX16].

**Protecting** [Dre17k, Dre17n, WLL⁺13]. protection [BP17b, HWDD17].

**Protocol** [BLP17, Böh13, Coe08, GL17, HLC17c, KKS14, LN17, Ler14b, LL17, LNZ⁺16, ML15, MSH17, MHWK16, OAB⁺17, PSS17, SYB14, SAL17, WCL17, ZP17a, BB15, GKL15, Hea13, KRD017, Ler14a, CFvdPS15, ML17, VG17, ZW15].

**Protocols** [BK14, LABK17, Mer80, MXC⁺16, KKS⁺17a, PLSS17, P⁺16, ZWH18].

**Provable** [SDT17]. Provably [Pia16, KRD017]. **ProvChain** [LST⁺17].


XWW17, MDN+18. Solution-Verification
[Coelho08]. Solutions [bAHR+17, bAHR+18, HJPS+16, PS16, KS18].
Solvency [DBB+15]. Solving
[KJ17, KJ18, Six17]. Some
[Ber13, CG16, Sha17, someone [Ito18].
Source [Cap12, TNM17, Hol15, dCdCM14].
sovereign [LCL17]. Spanish [HA15].
sparks [Lee13]. special [ZFY16, ZFY17].
Specializing [MKGT16a, MKGT16b].
Specifiability [Swa16]. Specification
[Wil13]. Specifications [LN17].
Spectra [DVRM16]. Speculative [CF15, Bla18].
Speculators [Ito18]. Speed
[CSC16, MBD+12]. spend [PR16]. Spender
[DNY17]. Spending [Dre17s, KAR+15, LZZ+17, KAC12, YSLH17]. Splitting
[LSP+15, KKS+17a]. Sporny [Spo17].
spotlight [ABR17]. spurs [Far18a]. Square
[EDS15]. St [ACM17c]. Stage [KD16].
staging [Bou10], Stake [BLP17, BLMR14, KN12, LABK17, Poe14, KRDO17]. stamp
[HS91]. stamping [BHS93]. Standards
[Lim18]. startup [Far18b]. stash [Hol18].
State [Sup16, WRB15, Sir16b]. Stateless
[RRCL17]. statt [Bli18]. Stay [SF+17].
steal [Hol18, Pal18]. stealing [LS14].
steals [Bar18]. Steven [Ano18b]. super
[Cim18a, Ro13, Sou13, WREK18, HDM+14, Osh18a]. stop [LP18c]. Stops
[Cim18b].
Storage
[SBHD17, SV16, XAYZ17, XAYZ18, YW18, WDL+18, YCX18, ZLX+17]. Store
[Dre17g, Dre17a, Dre17y, MHH+16, McMI3].
Storing [Dre17]. story
[Pop15, Pop16b, Rot17]. Strategic [EGB18].
Strategies [SSZ17]. strategy
[Cus14b, LLZ+17]. street [Lev17].
street-smart [Lev17]. Strengthen
[Ksh17a, Ksh17b]. Stress [BHM16].
Stressing [BHM16]. Strict [Ler13].
Strong [DSW16, Sir16a]. Stronger [Per09].
Structure
[LMLA17, Mor17c, OKH13, KCS+14].
Structured [SS17a, KMM17]. Studies
[KPK17]. Study [BO17, ISM17, J17, KAR+15, LXX17, MB15, WLX17, YNS16, YW18, CSLD17, DSM+17, UJ16, XLL+19].
Stylized [EDS15]. Subchains
[BLP17, Riz16]. Subscribe [ZZJ17].
Success [MCHM17, MHM17]. Succinct
[DFKP13]. Summarizing [Dre17u].
Summer [HMS17]. Super [LCL17].
Super-sovereign [LCL17]. supervised
[V17]. supervision [CJW17]. Supply
[HSB17b, HSB17a, HSB17c, HSB17d, HSB18a, HSB18b, HSB18c, HSB18g, HSB18h, HSB18i, DB16]. Support
[HRE17, Las17, ME17, OJ17, WLL+13].
Supporting [CXS+17, XLM+17]. Surface
[ZWW+17]. surge [Hol18]. surrounding
[FB17a]. Survey [Ami16, ABC17, TS16].
SURVIVOR [JAK19]. Suspected
[Cim18a, Ano18g]. sustain [Fai17, KH16].
Sustainability [Vra17, LMC18].
Sustainable [AKP17, AKP18, MNB+17].
Swimming [ZWW+17]. Swindle [Ito18].
SWOT [MM17]. SXSW [Vig15]. Sybil
[OLL14, FB15, FF17]. Sybil-Resistant
[OLL14, FB15, FF17]. Syntax [LS17].
System
[AB17, Ano17a, ACC+17, BK17c, CBWF17, CXS+17, DFKP13, JMK17, LZY+17, Liu16, LSH13, MY11, Mor17e, RH11, RH13, Sch98, SD16b, SL15, Van14b, WLSZ17, XAYZ17, XAYZ18, YW18, BMS17, CJW17, DSN17, JZLL17, LW16, Nak08a, SIX17], Tro14a, Tro14b, WJ16, ZWX+19]. SystemC
[CSDL17]. Systems
[AVM18, BART17, GKI14, GCD16, HTCW17, HTCW18, IGRS16, LDWS17, LX17, MCJ17, Mor17a, Mor17i, OR17, Ros11, SS17a, Sve17, WLX17, Cha85, GC08, Ker18b, Kra15, Kra16a, SIX17, SIX17, SIX17].
T [Che18]. T-S [Che18]. Takeover
[BBM+18]. tale [dS17a]. Talk
[Gar17, Spo17, Zoh17]. talking [GH17].
talks [BWZ17]. Tamper [HL16].
Tamper-Resistant [HL16]. Tampering
[GRKC15], tangible [BOS15], targets
[Seg18]. Tariff [KUEE17, KUEE18, KUE17].
Tax [Int14, WLSZ17, Lyn14]. Technical
[Sir16b, Spr13, TS16, Via16, EBHBL16, BP17b],
Technique [Riz16]. Techniques
[OF15, Heal13]. Technische [BP17b].
Technological [DMH18]. Technologie
[Ale18, DF17b, DF17a, HP17, HP18, KFR17, KFR18, TNM17, BP17b].
Technologien [GR17]. Technologies
[ATD17, BT18a, CR16, EGB18, GBSAS17, PP16, ROH16, YNS16, AR15, NBF+16, Ano16b, SM-16].
Technology
[AKP17, AKP18, ACW17, BART17, Ber17, BK17a, BK18, BCEM15, Cus14b, Eya17, Fot17, GANAHHIJ17, Ger16, HSB17c, HSB18d, HSB18g, HSB18i, HTCW17, HTCW18, JB17a, JB18, KSCD16, KD16, KYV19, LSM17, MGDEK17, MGDEK18, anOE17, OOF+17, Oln16, OJ17, OEO16, OEO17, RC16, SPJ+17, SK15, SS17a, Snon18, TBY17, YMRS18, Ale18, BR17, BP17b, CZ16, CXLC18, DF17b, HP17, KFR17, MGM+17, Pil16, Raj18, SK18, SYZ16, TT16, TTC16, Wat17, ZW17, ZZ16].
Telegram [Fir18]. telematico [MS15]. Tell
[Ber17]. Temporality [Swa16],
temporarily [Lee13]. Ten [Mei18].
TenderMint [Kwo14]. Term
[Dre17c, LJG15]. Terminal [ECHL16].
Terror [Car15]. Tessera [Li14]. Testing
[BHMW16, CQLL18, WDSL17]. Theft
[AGGM16, Bra13, YWW+18, YWS+18, Far18a]. Thefts
[dre14, Ano13b, Duc13]. Their
[CDD17, JSK+17, Ito18]. Them
[Mic14, Hol18, Ito18, Lau11a, Sha17].
Theorem [Hir17, Ano18f]. Theoretic
[JLG+14, LJG15, LBS+15, SCYP17, Tro15b].
Theories [ROH16]. Theory
[OF15, RFM+18, DB16, Ito18]. There
[Pop18a, VM15, Tro15a]. these [Cim19].
Thieves [Hol18, Ano18g]. thing
[LP17b, LP17c, LP18b]. Things
[CVM17, DGP17, Ksh17a, Ksh17b, LL16, LL17a, Mic14, QFLM17, Sve17, XAZY17, XAZY18, ZW17]. Thinking [Dre17v].
Third [FWB15, IKY05]. thirst [Far18a].
Thirteenth [Uni14]. thousands [Nic17].
Thread [CSLD17]. Thread-
[CSLD17]. Threats [EBG18]. Three
[FYY+17, HLC17c]. Three-Party
[FYY+17, HLC17c]. Threshold
[GGN16, IK17, DS17b, GGK+14].
Threshold-Optimal [GGN16].
Throughput [MPSP17, SS12, XLM+17].
Tickets [Tac17]. Time
[EZ17, EZ18, JCG17, KK17a, Lei16, RRCL17, RSW96, Swa16, Wör16, XLM+17, BHS93, DB16, HS91, Ker18b, Lam89, PR16].
Time-lock [RSW96]. time-lock [HS91].
time-stamping [BHS93]. Timed
[ADM14b, RSW96]. timed-release
[RSW96]. Timestamp [SPB17].
Timestamp-Free [SPB17]. timestamping
[MAQ99]. Timestamps [DHES16]. Timing
[NAH16]. Tip [KRL17]. Tips [MB15].
TLS [XJY17]. Together [Dre17c, Pec15].
Tokenization [Liu16]. Tokens
[DMH18g, Muf16, Ito18]. tolerant [BSV17].
Tolerate [GS15b]. Tolls [MB15].
too [G17]. Took [Zet13]. tool [Kha15]. Toolkit
[KMMW17]. tools
[MBB13b, MBB13a, Raj18]. Top [Mei18].
Topology [NAH16]. Tor [BP15]. torrent
[Bak09]. Town [ZCC+16]. Traceability
[KFTS17, LX17, Che18, XLL+19]. Tracking
[Bra13, NSNF17, RRMAH, VM15].
Trade [SIDV14]. Trade-offs [SIDV14]. Trading
[Bik16, MCHM17, MM17, MBC+17b, NCSI17, Via16, ALP15, Bual8, GS15a, JAK19, LT17, MLM15, Uri17, WZQ+17].
Traffic [KKM14, WRB15]. Traffickers
[PHD+17]. Traitor [KT15]. Transaction
[AK14, AC17, BMTZ17, BLS17, DW14, Drei17d, Drei17t, GCD16, HL16, Hou14b,
KK17a, MB15, OKH13, PP16, RAH^{+15}, RJK^{+17}, RS13, RMS17, SZ15, TSCT18, Van14b, WLS^{+16}, XLM^{+17}, YK15, BDP^{+15}, Cha85, HP17, LLZ^{+17}, SZ13, VG17, WQHX17, Woo14a.

Transaction-Confirmation [KK17a].

Transactional [DHE16]. Transactions [ADMM15, ABL18, CZJ^{+17}, CSS^{+17}, CP17b, Dre17a, Dre17z, FNP17, FMR^{+16}, GRKC15, HBG16, HJPS16, Int14, LK17, Mic16, MBB14, Muf16, NST^{+17}, NMT16, PS16, RMS17, SCAA13, TOM17, ZG15, ZGGT16, CEN14, DSPHSJ18, YSLH17].

Transactive [BLSD17, LDWS17, WDLS17].

Transaktionskosten [HP17, HP18].


Transforming [Eya17]. transmediale [BGPW16]. Transparency [Bon16b, CM16, MG17, MBB^{+15}].

Transparent [DGSW15, DF17b].

transparente [DF17b, DF17a]. Travel [LD17]. Traveling [Chr13]. Treated [Int14].

Treatment [BMTZ17]. tree [Bit09]. Trees [Coe08, KAM17, SZ13]. Trend [BS15].

Trends [Lei16, MB15, Zohl17]. Trials [ACV17]. tributario [MS15]. Tried [Cим18b]. tries [Pal18]. Trims [Vig15].

trotz [PB17]. Trouble [Kru18]. Trust [ACM17d, FB17b, LSM17, SK15, SK17, Smo18, BDP17b, MAQ99, P^{+16}, PdWWS16, XRJ^{+17}, DGP17].

Trusted [FWB15, MBC^{+17b}]. Trustless [KET^{+17}, Kra16b]. Trustworthy [XWW17, ZWGC19]. TrustZone [GMS17].

TrustZone-backed [GMS17]. Trying [WREK18, Pop15, Pop16b]. Tuning [SS12].

Turkey [Ano18]. Tutorial [JW16b, Mohl17, NHC16]. TV [Ro13].

Tweetchain [BLNN17b]. Twice [Dre17a].

Twins [Pop17b, Gel16]. Twitter [HBJB14].

Two [ADM14a, Gal18, GCL16, ML15, ML17, RS96a, RS96b, Vial16, Lin17, dS17a].

Two-Factor [ML15, ML17]. Two-Party [ADM14a, Lin17].


uncovered [Pal18]. Uncovering [MMR16, PHD^{+17}]. underground [UJ16].

Underlying [SZ17, SZ18]. understand [DMH18b]. Understanding [Bog17, Dre17w]. Fra14, Lew15, NST^{+17}, PP16, dKW17]. Understandings [MSC15].


Universal [O091]. universe [Wal19].

University [CRS83]. Unknown [NPS^{+17}].

Unleashed [LPSZ18]. unlikely [Cim19].

Unlimited [ZP17a]. Unpacking [DMH18m]. Unraveling [CSS^{+17}].

Unregulated [ACM15, Ali15]. unseen [Far18a]. Unsupervised [MMT16a]. until [It018].

Untraceable [Cha81, Cha83]. Untrusted [WXR^{+16}, WLL^{+13}]. unusual [DMR17a]. update [Ano18i, LL16, LL17a].

Updates [BFS17, BFS18, SDK^{+17}].

Upheaval [Gev16]. Urban [JMK17]. Urgent [Ano18i]. USA [IKY05, Jue04].

Usability [KRL17, EBSC15]. Usage [KSCD16]. USD [HG15]. Use [BSB16, BK14, FRSU17, IM16, KCD17, KB14, KMB15, LOS^{+15}, LD17, VBC^{+17}, WBK^{+17}, FNP17, KFR17, Kuy18, Rij18, DF17b]. used [DSN17, LP18c]. useless [Ano18a].

User [AKR^{+13}, ACC^{+17}, BBBBB15, CR17, Dre17k, GZH^{+14}, KJGW17, NTKS17, Riz16, SVL17].

User-Centric [ACC^{+17}].

Users [Cim18b, DS15, GCL16, GDTKP17, HBJB14, JMM14, MMR16, Nak18, RRM18, SK17, XCG^{+17}, Ano13b, Cim19, DMR17a, DMR18,
Far18b, MBB+15, Pal18, Seg18]. Uses

[BB14]. Ushare [CR17]. Using [AK17, Ano19, AC17, AGGM16, BT18a, Bon16b, CQLL18, DH17, Dri17x, Dri17y, DX17, GG17, HS16c, KPK17, KMMW17, KRL17, KT15, KKM14, LDWS17, LL17, LSM17, Liu16, MGDEK17, MGDEK18, aNOE17, Öh16, Ort16, OAB+17, RST11, RRM18, RDD17, SD16a, SY17, SCA13, SL17, SDK+17, VM15, WBR15, XWR+16, WA15, YNS16, YK15, ZC16, ZJ17, dKW17, AML18, Bee16, Ber13, Cae15, CJW17, Che18, CS15, HZL19, Si16, WH17, VV17], usury [TF16]. Utility [KMMW17, Ker18b].

v0.0.2 [Cas12]. validation [VG17].

Validity [ZP17a]. valuable [CSG+18].

Value [McL13, MBC+17b, Mor17e, NST+17, WLSZ17, CF15, DF17b, FB17a, Van14a].

Value-Added [WLSZ17]. ValueShue [RMS17]. Variable [GKL17]. VEC [ZDL17b, ZDL17a]. Vehicle [vdHEM+17, JAK19, KH17, KUE17, SK18].

vehicle-to-grid [JAK19]. Vehicle-to-x [vdHEM+17]. Vehicular [JCG17, LMH16].


Version [BLBS17, Woi18]. Versions [Abr18]. VerSum [vdHKZ14]. vertrouwen [PdWWS16]. Via [Spo17, ADA17, ADM14a, BLMR14, CZJ+17, DN93, GGK+14, KMOD17, Lar13, LK17, Per09, DD17b, TOM17].

VIBLES [SZJ17]. victims [Edw15]. View [Pop18b].

Vindication [Pop17b]. Violation [ALP15].

Virtual [Ano12, Ano18d, Ano18h, Ber13, BOS15, Ge16, GC08, Hir17, Int14, Kra16b, Lyn14, Mul14b, Pop18a, Sch14a, VM15, AF16, Bra15a, CRdK16, Man14a, WLL+13, Dus14]. virtual [AF16]. Virtualization [CQLL18]. virtuelle [San14b, Sa14a]. Visual [BS17a].

Visualization [YSZ+19, BDP+15]. Visualized [Bog17]. VMware [HMS17].


VOTING [CMR+16, JRB+17, BMSS17, HTC17, HTC18, MG17].

Voting-system [BMSS17]. vs [GP17a, Vuk16]. vulnerability [Fir18].

Vulnerable [ES14b, VTL17, ES18].

WAHC [BBMS14, BCJR15, CSN14, CMR+16, JRB+17]. Währung [San14a, Ker14].

Wallet [BDWW14, DNY17, GN16, GMS17, JKKX16, Ano14a, CJW17, DS17b, Goo18, Nic17, Pal18, Sch13, UJ16].

Wallet-Assisted [DNY17]. Wallets [Chi13, GAK17, GS15b, VBC+17, DS17n, GGK+14, KBS17, VSM+19]. Walras [DB16]. Want [MHI+16, Fin17b, VSM+19].

Water [Ker18b]. Wavelet [DVRM16]. Way [Bhe17b]. Weak [RRM18]. Wealth [RS14, LP18c]. Wearable [BCJR15].

Weaver [DHE16]. web [UJ16, DGP17, MLM15, MLM16, WB17].

WeChat [ZLX+17]. Weg [FRSU17, PdWWS16]. weighted [DS17b].

Wertschöpfungskette [DF17a, DF17b].

West [Jue04]. Whale [LK17]. Where [BBM+18, HSB17a, HSB18c]. which [Pal18].

Who [AABM17, BB14, Nak18, Smo18, Ste17]. Wi [SI16]. Wi-Fi [SI16]. Wie [RE18, KFR17, KFR18]. Wiki [Ano17c].

Wild [LSO+15]. Wildlife [FHS+17]. will [Cim19, Fai17, Far18b, Hol18, Ito18].

Windows [Tun18]. Wing [Lut17]. Wings [BS17b, BS18]. Winklevoss [Pop17b].

Wireless [SYK17, SDK+17]. Withholding
[BS16, BRS17, KKS+17c, SPB17, TSL+17].

Within [HQ15]. Without [CKWN16, FWB15, Cha85, Hal18, Kwo14, Mö13].

Witness [Bhe17b]. Wolfram [Wol18].

Wonderland [Zet13]. Work [Ast16, Bac03, BLMR14, BK17b, Coe08, GK+16, HSL17, Lar13, MJS+14, ÖY17, SLY15, Tro15a, Vuk16, Ano17d, DMH18b, Dry14, Kin13, LC04, RE18, Shi16, Tro14a, Tro14b, Tro15b]. Work-in-progress [ÖY17]. Workings [FNP17, Lev17]. works [BWZ17, RE18, Six17h]. Workshop [ACM17b, ACM17d, SDT17, Spo17].

Workshops [BBMS14, CSN14, CMR+16, GANAHHJ17, JRB+17, BCJR15]. World [Bec18, CGJ+17, Dre17j, ECHL16, Hul17, NCS17, Pav18, Swa15a, Cae15, Fai17, Kel15, KH16, TT16, TTC16]. Worlds [Kra16b].

Yielding [TOM17]. York [IKY05].

Z [MG16]. Z14 [GADO17, MDN+18]. Zahlungsmittel [SKG13, Six17c]. Zero [CGGN17, Fir18, MB17].

Zero-Collateral [MB17]. Zero-day [Fir18].


Zerocoin [DFKP13, MGGR13]. ZombieCoin [AMLH15, AMLH18]. Zukunft [SKG13]. Zum [LPW17b, LPW17a, LPW18, FRSU17]. zur [Six17a].

References

[Altshuler:2013:SPS]


[Azouvi:2017:WSI]


[Abdelraheem:2017:SER]

Al-Bassam:2017:SSC


Amani:2018:TVE


Atzei:2017:SAE


Abel:2018:HCE


Allan:2016:ASC


Aniello:2018:BBS


REFERENCES


REFERENCES


Abbasi:2017:VVI

Anta:2018:FID

Adams:2017:BGD

Androulaki:2013:EUP

Alexander:2018:RXE

Ali:2015:BPUb
Syed Taha Ali. Bitcoin: Perils of an unregulated global P2P currency (transcript of
Anceaume:2015:SAB


Alam:2015:NVI


Anceaume:2016:SAB


Angel:2015:EPP


Amin:2016:SFL


Ali:2015:ZPN

Syed Taha Ali, Patrick McCorry, Peter Hyun-Jeen Lee,


Anonymous:2014:MYW


Anonymous:2014:RBS


Anonymous:2016:BRG


Anonymous:2016:BRBa


Anonymous:2016:BRB


Anonymous:2017:BDD


Anonymous:2017:BW


Anonymous:2017:HDB


Anonymous:2017:VPC

Anonymous:2018:BOC


Anonymous:2018:BFN


Anonymous:2018:BS


Anonymous:2018:CLV


Anonymous:2018:CMC


Anonymous:2018:GST


Anonymous:2018:IPA


Anonymous:2018:KIO

REFERENCES


REFERENCES


REFERENCES


[bAHRAK18] Norul Suhaliana bt Abd Halim, Md Arafatur Rahman, Saiful Azad, and Muhammad No-


REFERENCES


[BBBH12] Simon Barber, Xavier Boyen, Elaine Shi, and Ersin Uzun. Bitter to better: How to


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


**Bailis:2017:RPC**


**Bracamonte:2017:ESI**


**Bogner:2017:SUA**


**Böhme:2013:IPA**


**Bissias:2014:SRM**


**Bonneau:2014:EPC**

REFERENCES

Data Security, 18th International Conference (rump session), Bridgetown, Barbados, 4 March 2014, page ???, ????, 2014.

Bonneau:2014:WAM


Bonaiuti:2016:EIM


Bonneau:2016:EUE


Briere:2015:VCT


Boehm:2014:BFL


Biryukov:2015:BTI

Bartoletti:2017:ABO


Bohme:2017:TGD


Bolici:2016:MGD


Benchoufi:2017:BTI


Bradbury:2013:ATB


Bracey:2015:RPD


Bradbury:2015:BSB


Bradbury:2017:PB

REFERENCES


Bag:2017:BBW


Bruhl:2017:BBD


Beikverdi:2015:TCB


Bag:2016:YAN


Bistarelli:2017:GBF


Bocek:2017:SCT


Bocek:2018:SCB

[BS18] Thomas Bocek and Burkhard Stiller. Smart contracts — blockchains in the wings.

[Bashir:2016:WMP]

[Ben-Sasson:2014:ZDA]

[Barnett:2018:ADR]

[BT18a]

[Buerkle:2018:KLG]
Tom Buerkle. Kodak last-gasp hope: KodakCoin. New
Buterin:2013:DMH

Buterin:2013:ENG

Burniske:2017:BRB

Bandelj:2017:MTE

Bartoletti:2017:CDM

Caetano:2015:LBE

Cap:2012:BOS
Prof. Dr. Clemens H. Cap. Bitcoin das Open-Source-Geld. (German) [Bitcoin the open-source gold]. HMD
REFERENCES


Capaccioli:2015:CBU


Carmona:2015:BCF


Castro:2012:BPN


Chanson:2017:BPE


Cankaya:2016:IBE


Castellanos:2017:CGO

J. Alejandro F. Castellanos, Debora Coll-Mayor, and José Antonio Notholt. Cryptocurrency as guarantees of origin: Simulating a green certificate market with
the Ethereum blockchain.


REFERENCES

Suite 300, Silver Spring, MD 20910, USA, February 2015.

Cheah:2015:SBB


MR3678694

CF15

CFvdPS15


Catalini:2016:SSE


Chatzopoulos:2016:LAH


Campanelli:2017:ZKC


Choudhuri:2017:FUW

REFERENCES


REFERENCES

10036, USA, 2013. ISBN 1-4503-2035-X.


Carlsten:2016:IBB


Combs:2014:BD


Chase:2016:TOA


Clark:2016:FCD


Coblenz:2017:OSB


Coelho:2008:ACE

REFERENCES


Coutu:2013:DMB


Courtois:2014:LCR


Courtois:2016:FBS


Coeckelbergh:2016:CNT

[CR16] Mark Coeckelbergh and Wessel Reijers. Cryptocurrencies as narrative technologies. ACM SIGCAS Com-

Chow:2017:BMC


Connor:2017:EBT


Chen:2018:UVB

REFERENCES


Chakravorty:2017:UUC


Ciaian:2016:DAV


Crary:2015:PPA


Cross:2018:WMC


Chaum:1983:ACP


Crary:2015:PPA


Courtois:2016:SOB

Nicolas Courtois, Guangyan Song, and Ryan Castellucci. Speed optimizations in Bitcoin key recovery attacks. Tatra Mountains Mathematical Publications, 67:55–68, 2016. ISSN 1210-
REFERENCES

3195 (print), 1338-9750 (electronic).

**Chatterjee:2018:BEI**


**Cheng:2017:TDL**


**Christin:2014:FCD**


**Cusumano:2014:BE**


**Cusumano:2014:TSM**


**Campbell-Verduyn:2018:BBC**

REFERENCES


REFERENCES


Dannen:2017:BBK


Dannen:2017:IES


Donier:2016:WAC


Dagher:2015:PPP


deBalthasar:2017:ABL


deCarnavalet:2014:CIV

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
</table>
Blockchain-Technologie für eine transparente Wertschöpfungskette. (German) [Use of blockchain technology for a transparent value chain]. In CSR und Digitalisierung. (German) [CSR and digitization], pages 449–464. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 2017.

Danezis:2013:PCB


Dickerson:2017:ACS


Durand:2017:DWT


Deck:2015:MBE


Diffie:1976:NDC


Divita:2017:ABM

Joseph Divita and Roger A. Hallman. An approach to

Danezis:2013:PCB


Dickerson:2017:ACS

botnet malware detection using nonparametric Bayesian methods. In *Proceedings of
the 12th International Conference on Availability, Reliability and Security*, ARES
5257-X.

[Dh16]

Ayush Dubey, Greg D. Hill, Robert Escriva, and Emin Gün Sirer. Weaver: A
high-performance, transactional graph database based on refinalble timestamps.

[DiP17]

Massimo Di Pierro. What is the blockchain? *Computing in Science and Engineer-
ing*, 19(5):92–95, September/October 2017. CODEN CSENFA. ISSN 1521-9615
s/2017/05/mcs2017050092-1-abs.html.

[Dj17]

view/96.

[Di19]

Peter Dixon. Blockchain: Mehr als Bitcoin. (German) [Blockchain: More than
Bitcoin]. In *Innovatio-
en und Innovationsmanagement in der Finanzbranche*, pages 215–229. Springer-Ver-
lag, Berlin, Germany / Hei-
delberg, Germany / London,
UK / etc., 2017. ISBN 3-658-
15648-1. URL http://link.
springer.com/chapter/10.
1007/978-3-658-15648-0_1
0.

[Dor17]

Ali Dorri, Salil S. Kanhere,
and Raja Jurdak. Towards
an optimized BlockChain for IoT. In *Proceedings of the Second International
Conference on Internet-of-
Things Design and Imple-
mentation*, IoTDI '17, pages
York, NY 10036, USA,
URL http://doi.acm.org/
10.1145/3054977.3055003.

[Dor19]

Ali Dorri, Salil S. Kanhere,
and Raja Jurdak. MOF-BC:
A memory optimized and
flexible blockchain for large
scale networks. *Future Gen-
eration Computer Systems*,
92(??):357–373, March 2019.
CODEN FGSEVI. ISSN
0167-739X (print), 1872-7115
(electronic). URL https:


REFERENCES


REFERENCES


Dhillon:2018:GRM


Dhillon:2018:HP


Dhillon:2018:RDB


Dhillon:2018:UE


DiFrancescoMaesa:2017:ABU

[DMR17b] Damiano Di Francesco Maesa, Paolo Mori, and Laura Ricci. Blockchain based access control. In Distributed Ap-
REFERENCES


DiFrancescoMaesa:2018:DDA


Dwork:1993:PPC


Dwork:1999:PPC


Dmitrienko:2014:OPB


Dmitrienko:2017:SWA

REFERENCES


Drescher:2017:DT


Drescher:2017:DCP


Drescher:2017:DDS


Drescher:2017:DO

REFERENCES


REFERENCES


REFERENCES


Dryja:2014:HBP


DuPont:2015:TAB


deSoto:2017:TTC


Dikshit:2017:EWT


Dai:2017:BCC


Dlamini:2017:DSS

REFERENCES

Delgado-Segura:2018:BPK


Decker:2016:BMS


Dinh:2018:ABD


Ducklin:2013:ARN

Paul Ducklin. Android random number flaw implicated in Bitcoin thefts. Web news story., August 12, 2013. URL http://nakedsecurity.sophos.com/2013/08/12/android-random-number-flaw-implicated-in-bitcoin-thefts/. From the story: “It looks as though, at least on occasion, the Java-based PRNG on Android will repeat its pseudorandom sequences, thanks to a flaw in Android’s so-called SecureRandom Java class.”.

Duskin:2014:VCB


Delfín-Vidal:2016:FNB

Decker:2013:IPB

Decker:2014:BTM

Decker:2015:FSP

DeFilippi:2018:BLR

Dinh:2017:BF

Dubovitskaya:2017:HBC


REFERENCES

World Congress (UIC/ATC/ScalCom/CBDCom/IoP/SmartWorld), pages 382–389. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, July 2016.

Edelman:2014:CPM


Easwaran:2015:BDI


Edwards:2015:FBP


Evans-Greenwood:2017:DLL


ElBansarkhani:2018:PSD


Engelmann:2017:TEA

ElDefrawy:2014:FDC


Egelund-Muller:2017:AEF


Emmadi:2017:RIP


Ermilov:2017:ABA


Eyal:2014:HDL


Eyal:2014:MEB

ElBansarkhani:2016:ELB


Ey al:2018:MEB


Eberhardt:2017:BIC


Evans:2014:EAB


Eyal:2015:MD


Eyal:2017:BTT

REFERENCES


[Fir18] Alexey Firsh. Zero-day vulnerability in Telegram: Cybercriminals exploited Telegram flaw to launch multipurpose attacks. Web story,
REFERENCES


Fox:2017:B

Filtz:2017:EBA

Faisca:2016:DSI

Franco:2014:UBC

Frisby:2014:BFM

Fridgen:2017:EDI
REFERENCES


REFERENCES

1007/978-3-319-65000-5_8.


[GCR16] Ilias Giechaskiel, Cas Cremers, and Kasper B. Rasm


REFERENCES


Grimm:2017:ARB


Gandal:2017:PMB


Giaglis:2015:MIB


Gimigliano:2016:BMP


Giaglis:2014:TAI


Göbel:2017:IBS

REFERENCES


Gervais:2014:BDC


Garay:2015:BBP


Garay:2017:BBP


Gervais:2016:SPP


Gafni:2000:DP


Guo:2016:BAO

Ye Guo and Chen Liang. Blockchain application and


REFERENCES


**Grossklags:2017:FCD**


**Gimpel:2017:DTB**


**Garcia:2015:SSA**


**Grinberg:2011:BIA**


**Gervais:2015:TDB**

REFERENCES

Gutoski:2015:HDB


Gencer:2017:SPS


Glaser:2014:BAC


HenriquezHerrera:2015:CNP


Halpin:2017:NDI


Halaburda:2018:EBD


Hart:2017:MHE


**Hurlburt:2014:BBC**


**Heilman:2016:BSC**


**Hernandez:2014:BUL**


**Hearn:2012:BIP**


**Huang:2018:BBF**


**Huang:2014:BMS**


Hearn:2013:MAN


Herlihy:2017:BFD


Herlihy:2019:BDC


Hencic:2015:NAM


Henry:2018:BAP


Hileman:2014:BBP


REFERENCES

Huang:2017:BPC

Huang:2017:FTP

Herlihy:2016:BLA

Holden:2018:WRF

Howard:2017:RPF

Hobson:2013:WB
REFERENCES


REFERENCES

Haferkorn:2015:SIW


Hentges:2017:FPS


Hyvarinen:2017:BBA


Haber:1991:HTS


Haber:1997:SNB


Halaburda:2016:BBE


Halaburda:2016:BB

[HS16b] Hanna Halaburda and Miklos Sarvary. Beyond Bitcoin. Palgrave Macmil-
REFERENCES


[HS17c] Erik Hofmann, Urs Magnus Strewe, and Nicola Bosia. Discussion — how does the full potential of blockchain technology in supply chain finance look like? In Supply Chain Finance and Blockchain Technology: the Case of Reverse Securitisation [HSB18], pages 77–87. ISBN 3-319-62370-2 (paperback), 3-319-62371-
REFERENCES


[HSB18d] Erik Hofmann, Urs Magnus Strewe, and Nicola Bosia. Background III — what is blockchain technology? In Supply Chain Finance and
REFERENCES


Hofmann:2018:DHD


Hofmann:2018:IWP

Hofmann:2018:SCF


Hsiao:2017:DVS


Hull:2017:BDE


Hurlburt:2016:MBO


Hariya:2017:BPB

Huang:2019:OSA


Idelberger:2016:ELB


Isler:2017:TSP


Ioannidis:2005:ACN


Ingram:2016:AMB


IRS:2014:IVC

[Internal Revenue Service.]

Ibba:2017:CBO


Idalino:2017:PVA


Ito:2018:BIS

Joi Ito. The big ICO swindle: Many cryptocurrency speculators are banking on the theory that someone dumber than them will buy their tokens for more than they paid. That’s a pretty good bet... until it isn’t. Wired, ??(??):??, January 2, 2018. CODEN WREDEM. ISSN 1059-1028 (print), 1078-3148 (electronic). URL https://www.wired.com/story/ico-cryptocurrency-irresponsibility/.

Jindal:2019:SBB


Jaag:2017:BTC

REFERENCES


[JKS16] Ari Juels, Ahmed Kosba, and Elaine Shi. The ring of
REFERENCES


Jang:2017:ESM


Johnson:2014:GTA


Juels:2013:NAS


Jaffe:2017:MUC


Jayasinghe:2014:OFE


Jakobsson:2017:FCD

Markus Jakobsson, Kurt Rohloff, Joseph Bonneau, Andrew Miller, Peter Y. A. Ryan, Vanessa Teague, Andrea Braccialli, Massimiliano


REFERENCES


**Judmayer:2017:MMC**


**Kabashkin:2017:RMB**


**Karame:2012:DSF**


**Kammuller:2017:PCA**

[Kam17] Florian Kammüller. A proof calculus for attack trees in Isabelle. In *Data Privacy Management, Cryptocurrencies and Blockchain Technol-
120

REFERENCES


REFERENCES


Kumaresan:2016:ASC


Kaushal:2017:EBS


Karame:2018:BSP


Kethineni:2017:UBD


Kondor:2014:IIB


Kow:2016:HKW

Yong Ming Kow and Xianguhua Ding. “Hey, I know what this is!”: Cultural affinities and early stage appropriation of the emerging Bitcoin technology. In Proceedings of the 19th International Conference on Supporting Group Work, GROUP '16, pages
REFERENCES


**Kroll:2013:EBM**


**Keenan:2016:WFK**


**Kelly:2015:BBB**


**Keromytis:2012:FCD**


**Kerscher:2014:BFR**


**Kerner:2018:CRE**

Kerner:2018:WUE


Klems:2017:TIB


Kaga:2017:SPS


Korschinowski:2017:BTW


Korschinowski:2018:BWB

REFERENCES

[102x681] REFERENCES

1007/978-3-658-18890-0

13.

Kumar:2017:TAM


Khalil:2017:RRB


Kleineberg:2016:SBC


Ki:2017:BAI


Khan:2015:BPM


King:2013:PCP


Kim:2017:BBS

[KJ17] Yooñwan Kim and Juyeon Jo. Binary blockchain: Solving the mining congestion...

Kim:2018:BBS


Krombholz:2017:OSC


Kawase:2017:TCT


Kuzuno:2017:BEA


Kiayias:2016:BMG

REFERENCES

URL http://doi.acm.org/10.1145/2940716.2940773.


Kow:2017:ICP


Kong:2015:PSI


Kier:2017:SFI


Kaaniche:2017:MPP


Kaaniche:2017:PPP

REFERENCES


Kumaresan:2015:HUB


Kasem-Madani:2017:TTU


King:2012:PPP


Karvelas:2017:UOR


Kraft:2015:DCB

REFERENCES


REFERENCES

Khairuddin:2016:EMB

Kshetri:2017:CBSa

Kshetri:2017:CBSb

Kshetri:2018:BEH

Kshetri:2017:CBSb

Kshetri:2017:CBSb

Knirsch:2017:PPB

Knirsch:2017:PPS
REFERENCES


Knirsch:2018:PPS


Kugler:2018:NWC


Kunnapas:2016:BSC


Kumaresan:2016:ISC


Kwon:2014:TCM


Kuhn:2019:RDL

REFERENCES

[Khazraee:2017:MNO]

[Li:2017:SPS]

[Lamp:1989:PTP]

[Lamp:2001:PMS]

[Larimer:2013:MMH]

[Laskowski:2017:BEP]

[Laurie:2011:DCP]

[Laurie:2011:EDC]
Ben Laurie. An efficient distributed currency. Web
REFERENCES

[102x681] REFERENCES

[102x681] 133


References

Leung:2017:UBO


Lundbaek:2017:CGB


Laszka:2017:PPS

Aron Laszka, Abhishek Dubey, Michael Walker, and Doug Schmidt. Providing privacy, safety, and security in IoT-based transac-


Lee:2013:MGB


Lee:2015:HDC


Leinonen:2016:DBC

Harry Leinonen. Decentralised blockchained and centralised real-time payment ledgers: Development trends and basic requirements. In Trans-
REFERENCES

\[ \text{Lerner:2013:SMH} \]

\[ \text{Lerner:2014:EFB} \]

\[ \text{Lerner:2014:PAM} \]

\[ \text{Lerner:2014:PAM} \]

\[ \text{Li:2014:TDC} \]

\[ \text{Levy:2017:BSS} \]

\[ \text{Lewis:2015:UPS} \]

\[ \text{Lehner:2017:FSS} \]
Thesis (Ph.D.)–Purdue University.

Lima:2018:DOI


Lindley:2015:CHD


Lindell:2017:FST


Liu:2016:MRS


Laszka:2015:WBM


Liao:2017:IBF

REFERENCES


References


Liu:2017:ESE


LealFilho:2018:HSS


Lahoie-Mazenc:2017:HBC


Lewis:2017:BFM

Lee:2017:FVE


Lustig:2015:AAC


Luu:2016:SSP


Linnhoff-Popien:2017:B


Linnhoff-Popien:2017:BNB

REFERENCES

Linnho-Popien:2017:BTN


Linnho-Popien:2018:B


Linnho-Popien:2018:BNB


Lipton:2018:BBN


Linnho-Popien:2018:DMU


Linnho-Popien:2017:BTG


Linnho-Popien:2017:BGG


REFERENCES

0925 (print), 1558-4593 (electronic). They proved that Byzantine agreement (the subject of Section ??) cannot be reached unless fewer than one-third of the processes are faulty. This result assumes that authentication, i.e., the crypting of messages to make them unforgeable, is not used. With unforgeable messages, they show that the problem is solvable for any \( n \geq t > 0 \), where \( n \) is the total number of processes and \( t \) is the number of faulty processes.


Li:2017:EQL


MacDonald:2016:BBS


Massias:1999:DST


Moser:2015:TTT


Miller:2017:ZCL


Moser:2013:IML

M. Mös, R. Böhme, and D. Breuker. An inquiry

Moser:2013:IML


Moser:2014:TRS


Melo:2017:HBC


Missier:2017:MMV

REFERENCES

URL http://doi.acm.org/10.1145/3131542.3131564.

Malkhi:2012:PCF


Moore:2013:BME


Matl:2015:EMM


Mc:2017:ATR


Meshkov:2017:SPR


McKay:2019:CES


Robert McMillan. $1.2m hack shows why you should never store Bitcoins on the Internet. Wired, ??,(??):??, November 7, 2013. CODEN WREDEM. ISSN 1059-1028 (print), 1078-3148 (electronic).


REFERENCES

Merkle:1988:DSB


Moser:2016:BC


Mago:2016:BHB

[MG16] Felix Mago and Tobias Gillen. Das Bitcoin-Handbuch: Bitcoin von A bis Z. (German) /The Bitcoin Hand-

Moura:2017:BVE


Mytis-Gkometh:2017:NKR


Mytis-Gkometh:2018:NKR

REFERENCES


[Mic14] Anastasia Michailaki. Mixed reality through the Inter-
REFERENCES


Andrew Miller, Ahmed Kosba, Jonathan Katz, and Elaine Shi. Nonoutsourceable scratch-off puzzles to


M. Matta, I. Lunesu, and M. Marchesi. The predictor impact of Web search media on Bitcoin trading volumes. In 2015 7th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management (IC3K), volume 01, pages 620–626. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, November 2015.

Martina Matta, Ilaria Lunesu, and Michele Marchesi. Is Bitcoin’s market predictable?
Mirzayi:2017:BSA


Maesa:2016:UBB


McCorry:2016:TBP


Malavolta:2017:CPP

REFERENCES

Monamo:2016:MAB


Mengelkamp:2017:BBS


Meiklejohn:2015:PEO


Morabito:2017:BES


Morabito:2017:BG

Vincenzo Morabito. Blockchain governance. In Business In-
REFERENCES


REFERENCES

1007/978-3-319-48478-5.

Morabito:2017:SBS


Morabito:2017:SCL


Meiklejohn:2016:FBC


Marandi:2017:RPH


Montalcini:2015:DTT

REFERENCES

Maxwell:2015:EIO


McCorry:2015:AKE


McCorry:2017:RAB


Muftic:2016:BCC


Mullan:2014:BC


Mullan:2014:BDV

REFERENCES


T. Neudecker, P. Andelfinger, and H. Hartenstein. Timing analysis for inferring the topology of the Bitcoin peer-to-peer network. In 2016 Intl IEEE Conferences on Ubiquitous Intelligence Computing, Advanced and Trusted Comput-
REFERENCES


Nakamoto:2008:BPP


Nakamoto:2008:RBP


Nakamura:2018:CRU


Narayanan:2016:BCT


Narayanan:2017:BAP


Narayanan:2017:BEB


Notheisen:2017:TRW

[BNC17] Benedikt Notheisen, Jacob Benjamin Cholewa, and Arun Prasad Shanmugam. Trading real-world


[NSNF17] Ricardo Neisse, Gary Steri, and Igor Nai-Fovino. A blockchain-based approach for data accountability and...
Nissen:2017:NVT


Nakamura:2017:DPS


Ojo:2017:BNG


Ozisik:2017:GNP

REFERENCES


**Ober:2013:SAB**


**Olenick:2018:LCM**


**Olnes:2016:BBE**


**ODwyer:2014:BME**


**Okamoto:1991:UEC**


**OLeary:2017:EAB**

Kevin O’Leary, Philip O’Reilly, Joseph Feller, Rob Gleasure, Shanping Li, and Jerry Cristoforo. Exploring the application of blockchain technology to combat the effects of social loafing in cross functional group projects. In *Proceedings of the 13th Interna-
REFERENCES


REFERENCES


Perez-Marco:2016:BDT


Palmer:2018:CMT


Panurach:1996:MEC


Pass:2015:MDC


Pavlus:2018:WBC


Pesch:2017:DTO

References

Pomp:2016:BOW

Peck:2013:BAR

Peck:2015:BNG

Peck:2016:BCB

Peck:2016:BCB

Pec:2013:BAR

Pec:2015:BNG

Pec:2016:BCB

Pec:2016:BCB

Pec:2016:BCB

Pec:2016:BCB

Pec:2016:BCB

Percival:2009:SKD

Perlman:2017:BHH

Pixley:2018:CJM


Nathaniel Popper. The view from the Bitcoin bubble.
REFERENCES


Perez-Sola:2016:PBT


Pass:2017:FFB


Pirlea:2018:MBC


Pattil:2017:FBB


Pattil:2018:FBB


Pierrot:2017:MBE


Qi:2017:BPI


Raskin:2013:MBM


Rodrigues:2017:BBA

[RBL+17] Bruno Rodrigues, Thomas Bocek, Andrì Lareida, David Hausheer, Sina Rafati, and Burkhard Stiller. A blockchain-based architecture for col-


REFERENCES


**Ricci:2018:LBD**


**Reid:2011:AAB**


**Rivest:2004:PM**


**Rizun:2016:STS**


**Ranshous:2017:EPM**

10.1007/978-3-319-70278-0_16.

[10.1007/978-3-319-70278-0_16]


[RKS15]

Ruffing:2015:LLC


[RMS17]

Ruffing:2017:VMC


[RLT17]

Rohrer:2017:TCD


[RM19]

Rezaeibagha:2019:EMC

Sam Ro. A Bloomberg TV host gifted Bitcoin on air and it immediately got stolen. Business Insider article., December 23, 2013. URL http://www.businessinsider.com/bloomberg-matt-miller-
 REFERENCES

Reijers:2016:GBT

Ross:2003:DP

Rosenfeld:2011:ABP

Rosenfeld:2012:OCC

Rothstein:2017:EMS

Roubini:2018:BBP

Rahman:2017:SPR

Raju:2017:CDB
Saravanan Raju, Vandita Rajesh, and Jitender S. De-

Remy:2018:TBU


Rivest:1996:PMTa


Rivest:1996:PMTb

Ron:2013:QAF


Ron:2014:HDD


Risius:2017:BRF

REFERENCES


REFERENCES


[Sha17] Simon Sharwood. Elon Musk says he’s not Satoshi Nakamoto and is pretty rubbish at Bitcoin: He had some once, but lost them down the back of the sofa. The Register, ??(??):??, November 29, 2017. URL http://www.theregister.co.uk/2017/11/29/elon_musk_says_he_is_not_satoshi_nakamoto/.


REFERENCES

5th Global Conference on Consumer Electronics, pages 1–5. IEEE Computer Society Press, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, October 2016.


[Six17c] Elfriede Sixt. Bitcoin als Zahlungsmittel. (German) [Bitcoin as currency]. In Bitcoins und andere dezentrale Transaktionssysteme: Blockchains als Basis einer Kryptökonomie [Six17e], pages 77–89. ISBN
REFERENCES


**Sixt:2017:BF**


**Sixt:2017:BAD**


**Sixt:2017:GBK**


**Sixt:2017:EB**


**Sixt:2017:FBN**


**Sixt:2017:LBS**

REFERENCES

Sixt:2017:LFL


Sapuric:2014:BVI


Sas:2015:ETB


Sas:2017:DTE


Singh:2018:BBB


Sorge:2012:BEE

Christoph Sorge and Artus Krohn-Grimberghe. Bitcoin: Eine erste Einordnung. (German) [Bitcoin: A first clas-
REFERENCES

Sorge:2013:BZZ


Stefansson:2017:SSU


Singh:2018:CRA


Sleiman:2015:BMD


SM-D:2016:BRB


Saxena:2014:IAB

[Amitabh Saxena, Janardan Misra, and Aritra...

Sakakibara:2017:FB

Sallal:2017:PA

Song:2014:RB
central-bank-shuts-down-all-chinese-bitcoin-exchanges
1563826. [SPJ+17]

Song:2016:FVC

Southurst:2013:BPP

Solat:2017:BAZ

Sadeghi:2017:BT

Sporny:2017:LDW

Sprankel:2013:TBD
de/technical-basis-of-digital-currencies/.

Santos:2012:TPH

Santos:2013:OPB

Seebacher:2017:BTE

Sapirshtein:2017:OSM

Stevens:2017:WBS

Stommel:2017:BOG
Sebastian Stommel. Blockchain-Ökosysteme. (German) [Blockchain-Ökosysteme].

Streng:2018:BCM


Subramanian:2017:DBB


Subramanian:2018:DBB


Supra:2016:IHC


Shrestha:2016:TDD


Svetinovic:2017:BEI


Spathoulas:2017:PPP

Georgios Spathoulas, Paraskevi Vennou, and Alexandros Loukidis. Privacy preserving

Sillaber:2017:LCS


Swan:2015:BBNa


Swan:2015:BBNb


Sharma:2017:SDI

REFERENCES

Sun:2016:BBS


Sompolinsky:2013:ABT


Shah:2014:BRB


Szabo:2008:BGU


Allan Third and John Domingue. Linked data indexing of distributed ledgers. In Proceedings of the 26th International Conference on World Wide Web Companion,
REFERENCES


Tomescu:2017:CEN


Timon:2016:FPP


TakkalBataille:2017:BMA


Tian:2017:CCT


Timme:2015:FNE


Tech:2017:BTO

REFERENCES


REFERENCES


REFERENCES


USCHCSM:2014:BEB


Urien:2017:TSB


Urquhart:2017:PCB


VanRenesse:2015:PMM


VanAlstyne:2014:WBV


Vandervort:2014:COA


Vieira:2008:CRF

Gustavo M. D. Vieira and Luiz E. Buzato. On the coordinator’s rule for Fast


Rens W. van der Heijden, Felix Engelmann, David Mödinger, Franziska...


Vo:2017:BBD


Voight:2011:PDR


Valenta:2015:BBA


Vranken:2017:SBB


vanSomeren:2002:PPI


Volety:2019:CBW


Vasek:2014:EAD


Vukolic:2016:QSB


Vukolic:2017:RPB


Vo:2017:VBR

Vukolic:2017:RPB


Wilson:2015:PGG


Waldo:2019:HGB

Jim Waldo. A hitchhiker’s guide to the blockchain uni-

[Wattenhofer:2017:DLT]

[Warszawski:2017:ACR]

[Wagner:2017:PDT]

[Wang:2017:BR]

[Wang:2016:MMB]

[Wang:2018:FES]
Sheng Wang, Tien Tuan Anh Dinh, Qian Lin, Zhongle Xie, Meihui Zhang, Qingchao Cai, Gang Chen, Beng Chin Ooi, and Pingcheng Ruan. Forkbase: an efficient storage engine for blockchain and forkable applications. *Proceedings of the VLDB En-


Wen:2013:MPA


Wijaya:2016:ABT


Wiefling:2017:ABA


Wijaya:2017:NBB


Wan:2017:BCB

REFERENCES


REFERENCES


Xu:2017:BBS


Xu:2018:BBS

Xia:2017:ETH


Xu:2017:ELU


XJY17

Bingqing Xia, Dongyao Ji, and Gang Yao. Enhanced TLS handshake authentication with blockchain and smart contract (short paper). In Advances in Information and Computer Security,


[Xu:2019:MBD]
REFERENCES


Yamada:2016:BLS

Yu:2017:FDA

Yue:2019:BIV

Yin:2017:FEP

Yoo:2018:SSA
Minjae Yoo and Yoojae Won. Study on smart automated sales system with blockchain-based data storage and management. In Advances in Computer Science and Ubiquitous Computing, pages 734–740. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London,
REFERENCES


**Zhu:2017:AIF**


**Zhu:2017:EAI**

Yechen Zhu, David Dickinson, and Jianjun Li. Erratum to: Analysis on the influence factors of Bitcoincs price based on VEC model. *Financial Innovation*, 3(1):??, April 2017. CODEN ????. ISSN 2199-4730. URL http://link.springer.com/article/10.1186/s40854-017-0057-x. See [ZDL17b].

**Zeilinger:2016:DAM**


**Zetter:2013:HFT**


**Zhao:2016:OBI**


**Zhao:2017:EOB**


**Zhao:2015:GBI**

Chen Zhao and Yong Guan. A graph-based investiga-

Zhu:2016:IIS


Ziegeldorf:2015:CSM


Ziegeldorf:2017:SAD

REFERENCES


[ZWXY+19] Lin Zhong, Qianhong Wu, Jan Xie, Jin Li, and Bo Qin. A secure versatile light payment system based on blockchain. Future Generation Computer Systems, 93(?):327–337, April 2019. CODEN FGSEVI. ISSN