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/

02 January 2019
Version 1.28

Title word cross-reference

$1.2M [McM13], $10 [Pop17a], 100×
[CEN14], $1m [Sou13], $2 [Goo18], $28.5
[Gre13], $33 [Cim18a], $37 [Lec13], $400
[Nak18], $400M [Gal18], $530
[YWW+18, YWS+18], $62m [Nic17], $735
[Osb18b]. δ [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 [AMHL18, SI16, Six17b, SALLY17, Uli16].
2014 [Uni14]. 20th [GP17b].

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

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

Ability [SGF+17]. Abstract
[BLMR14, DNSY14, Hil14, Hul17]. Abu
[ACM17a, ACM17b, ACM17d]. Abuse
[VBC+17]. Academic [LHZ17, NC17b].

Accelerating [GADO17, SZ13].
acceleration [Dev14]. Access
[DMR17b, HHK18, ISM17, OEO16, OEO17,
DSN17, SI16]. Account [ZWQ+16].
Accountability
[GP17a, HM16, KAR+15, NSNF17].

Accountable
[BNM+14, VR15, vdHEM+17]. Accounts
[Dre17k]. Accumulator [SALLY17].

Accumulator-Based [SALLY17]. acéphale
beast [Fai17]. beat [Pec16]. become [CRdK16]. before [Far18a, Uni14]. befuddled [Bar14]. beginner [BDP17a, Pro13, Pro14]. Beginners [Ale18, KRL17]. Behavior [HLC\textsuperscript{+}17b].


Better [BBSU12, Spo17, WM18, Lew15]. Between [LJG15, Nis16b, KCS\textsuperscript{+}14]. Beware [MC13]. Beyond [Bec18, GCD16, HS16b, BDW17, BT18b, Cap15, CKWN16, Car15, Cai2, CK16, CF15, CJW17, CSLD17, Chi13, CP17a, Cha15, CE12, CM14, CP17b, CEN14, CGN14, CEW15, Cou16, CSC16, Cou13, CS15, Cus14a, Cus14b, DDB\textsuperscript{+}15, DSN\textsuperscript{+}17, DNP17, De18, DW13, DW14, DW15, DGSW15, DSW16, DVRM16, DPSHJNA18, Dev14, DMH18i, DMR17a, DMR18, DS17b, Dim17, Dix17, DSN17, DSNY14, DNY17, DPSHJ14, DS15, Duc13, EDS15, Edv14, Edw15, EBHB16, EPY17, EBCS15, ECHL16, Eva14, ES14a, ES14b, FOA16, FOA17, Fai17, Far18a, Far18b, FNP17, FS16, FPKH17, Fin17a, Fox17, Fra14, FB17a, FMR\textsuperscript{+}16, Fri14, FS16, G.17, GHMO17, GCL16, GKL15, GKL17, GSI15a, Gei16, GGN16, GMS17, Ger16, GKČ14, GČK14, GRC15, Gev16].

Bitcoin [Bra15b, Bra17, BOS15, BC16b, BDW17, BW17, BT18b, Cae15, CV18, CC16, Cap12, Cap15, CKWN16, Car15, Cai2, CK16, CF15, CJW17, CSLD17, Chi13, CP17a, Cha15, CE12, CM14, CP17b, CEN14, CGN14, CEW15, Cou16, CSC16, Cou13, CS15, Cus14a, Cus14b, DDB\textsuperscript{+}15, DSN\textsuperscript{+}17, DNP17, De18, DW13, DW14, DW15, DGSW15, DSW16, DVRM16, DPSHJNA18, Dev14, DMH18i, DMR17a, DMR18, DS17b, Dim17, Dix17, DSN17, DSNY14, DNY17, DPSHJ14, DS15, Duc13, EDS15, Edv14, Edw15, EBHB16, EPY17, EBCS15, ECHL16, Eva14, ES14a, ES14b, FOA16, FOA17, Fai17, Far18a, Far18b, FNP17, FS16, FPKH17, Fin17a, Fox17, Fra14, FB17a, FMR\textsuperscript{+}16, Fri14, FS16, G.17, GHMO17, GCL16, GKL15, GKL17, GSI15a, Gei16, GGN16, GMS17, Ger16, GKČ14, GČK14, GRC15, Gev16].

Biomedical [MGDEK17, MGDEK18]. Biometrics [KFN\textsuperscript{+}17]. BIPS [Sou13]. Birthday [BK17b, Lar13]. bis [MG16]. Bit [Sza08]. BitBeat [Vig15]. BITCOIN [BCJR15, CSN14, CMR\textsuperscript{+}16, JRB\textsuperscript{+}17, Ano18a, BS17a, BBMS14, Cim18a, Dus14, ES18, MG16, Six17f, Hol18, Aro12, CSG\textsuperscript{+}18, CRDK16, ALP15, ACM15, Ali15, AMLH15, AMLH18, AS14, AFS16, ALM15, ALPBT17, And14, AKR\textsuperscript{+}13, AK14, ADM14a, ADM14b, ADM14M, ADMM14, AM15, Ano13b, Ano14a, Ano14b, Ano17b, Ano17a, Ano17c, Ano17d, Ano18b, Ano18g, Ant16, Ant15, AZV17, Ast16, AMVA17, ACC\textsuperscript{+}17, BDOZ11, BDOZ12, BMTZ17, BS16, BRS17, BDWW14, BMHW16, BBSU12, Bar17, BHI\textsuperscript{+}14, BH15, Bar14, BP17a, BZ17, BLP17, BS16, BDP\textsuperscript{+}15, BBBB15, Bec18, BBH\textsuperscript{+}13, Bee16, BS15, BSGG\textsuperscript{+}14, BK14, BLMR14, Ber15, Ber13, Bik16, BKP14, BP15, BOL14, BMSS17, Bla18, BP14, Böh13, BCEM15, BB14, BR16, Bon16a, Bon14a, BNM\textsuperscript{+}14, Bon14b, BMC\textsuperscript{+}15, BC16a, Bra15a, Bra13].
MKKS15, Mil15, MB17, MM17, MK15, Möl13, MMT16b, MMT16a, MC13, MBB13b, MBB14, MB15, MES16, MBB13a, Mul14a, Mul14c, Mul14b, Mul14e, Mul14d, Mul14f, Mul14g, Mul14h, NC17a, Nak08a, Nak08b, NBF16, NC17b, NHM16, NAH15, NAH16, NH17, Nic17, Nis16a, Nis16b, OM14, OKH13, Ohn16, Ort16, Peo18, Pec13, Pec15, Pec16, P16, PS16, PR16, Pla13, Pop15, Pop16b, Pop17a, Pop17b, Pop18a, Pop18b, PHD17, Pro13, Pro14, RAH15, RJK17, Ras13, RH11, RH13, RRM18, Riz16, Ro13, RS13, RS14, Ros11, Rot17, RSMK14, RMS17, SCYP17, SOA17, SI16, San14b, San14a, SSZ17, SK14, SK15, SK17, SCG14, SMD14, Sch13, SBBR17, SBR16].

Bitcoin [SZ14, Sha17, SGF17, Shi16, Sid14, SCAA13, Sir16a, Sir16b, Six17a, Six17b, Six17d, Six17e, Six17h, Six17f, Six17i, Six17j, SLY15, SP17, SZ13, SZ15, SZ17, SZ18, Son14, SKG12, SKG13, Son13, SMZ14, Ste17, Swa15a, TFG17, TT16, TTC16, Tay13, Tay17, TD17b, TOM17, TS16, Uni14, Und16, UJ16, Uri17, Urq17, VR15, VG17, Van14a, VCLK17, Van14b, VG15, VTM14, VM15, VBF17, Vel16, VTL17, VFV17a, VFV17b, VC15a, Vig15, VCI15b, VDK16, VDI17, VX17, Vra17, WL15, WLY17, WHJ17, QWQ17, WLS16, Wij16, WA15, WvB14, W1r16, WQ17, YK15, Yeo15, YV17, YSLH17, YSZ19, ZW15, ZP17a, ZP17b, ZG15, ZC16, ZWQ16, ZG17T1, ZDL17a, ZMH17, ZMH18, Zoh15, ZGR17, dBHC17, dre14, Ano16b, SM16].

Bitcoin-Based [Van14b, HCW18].
Bitcoin-Exchange [MC13].
Bitcoin-Handbuch [MG16].
Bitcoin-like [VGJ15].
bitcoin-mining [Hol18].
Bitcoin-Netzwerke [Six17a].
Bitcoin-Ökosphäre [Six17a].
Bitcoin-Related [KCD17].
Bitcoin-Systems [Six17a, Six17b].
Bitcoin/USD [HG15].
Bitcoins [ZDL17b, AF16, AFMDM14, BDE13, Brü17, Cap15, ES16, Gre13, Hol15, MY11, Mc1L3, Mc1M3, MPJ13, MPJ16, RKS15, Six17e, ZGH15].
BitConeView [BDP15].
BitExTract [YSY19].
BitIodine [SMZ14].
bitstrings [HS97].
Bitter [BBSU12].
BIX [Muf16].
Blackchain [vdHEM17].
Blind [Cha83, WZQ17].
Blindcoin [VR15].
Blinded [VR15].
Blindly [HBG16].
Block [BS16, BRS17, CKW16, OAB17, SPB17, TSL17, ZP17a, GK17, Ler14a, PB17].
block-chains [Ler14a].
Block-Withholding [SPB17].
BLOCKBENCH [DWC17].
Blockchain [ACM17b, AK17, ABR17, AKP17, AKP18, ACW17, ARBK17, ALe18, ABL18, Ano18c, ATD17, AMVA17, ACC17, AC17, BABB17, BT18a, BLPB17, BART17, Bec18, BR17, BDP17a, Ber17, LDS17, BS17, BK17a, BK18, Bhe17a, Blol8, BCM16, BK17, BC16a, BO17, Brü17, BFS17, BFS18, BLNN17a, BLNN17b, Cae15, CDD17, CCMN17, CG16, CR17, CBWF17, CJW17, CXS17, CQLL17, Cob17, Dan17a, DNP17, DW18, DMH18b, DMH18d, DMH18h, DMR17b, Di17, DT18, Dreh17b, Dreh17m, Dreh17p, Dreh17x, DF17b, DXR17, DP18, DF17a, ET17, EZ17, EZ18, Eya17, Fai17, FNP17, Fot17, FRU17, Gar17, GANAHHJ17, GBP17W17, GBSAS17, Ger16, GR17, GCD16, God15, GL16, Hal18, aHRAK17, aHRAK18, HL16, HBG16, HHH18, HJP16, HS17b, HS17a, HS17c, HS17d, HS18d].
Blockchain [HSB18f, HSB18e, HSB18a, HSB18h, HSB18i, HP17, HP18, HTCW17, HTCW18, HLC17c, Hu17, Hur16, HRF17, IPSP17, IGRS16, JB17a, JB17b, JB18, JMK17, JL17, Kab17, KFN17, Kar16, KC18, KK17a, KG17, KKK16, KJ17, KJ18, KET17, KUE17, KUE18, KUE18, KFR18, Ksh17a, Ksh17b, KFT17, KK17b, Las17, Lau17, LL16, LL17a, LMWL17, LMH16, LN17, LMR17, LLW17, LZY17, LABK17, LST17, LK17, LSM17, LP17b, LPW17a,
Blockchain [PS18, PPMT17, PRO+18, QFLM17, RC16, ROH16, RS17, RBL+17, RE18, Rou18, SP+17, SNM17, SD16a, SDT17, SS17a, SBHD17, SYK17, SD16b, SW17, SL18, Smo18, SZJ17, Str18, Sub17, SYZ16, SALY17, Sto17, Swa15b, Uli16, YNS16].

Blockchain-Based [ABL18, HRF17, KET+17, KUE17, KUE18E, LX17, RBL+17, WLSZ17, XAY17, XAY18, YW18, BLSD17, CFW17, JMK17, LL16, LL17a, LMH16, LST+17, NSNF17, ÖY17, SBHD17, Sub17, SYZ16, VMMA17, XWW17, XJR+17, YCX18, KFE17, Kra15, Kraf6a, Le17, MNB+17, Sub18].

Blockchain-Driven [HSB17b, HSB17a, HSB17d, HSB18f, HSB18e, HSB18h].

Blockchain-Enabled [Las17, LN17, BKM+17].

Blockchain-LI [YNS16].

Blockchain-Orientation [IPSP17, PPMT17].

Blockchain-Powered [QFLM17].

Blockchain-Technology [DF17b, DF17a, HP17, HP18, TNM17, BP17b].

Blockchain-Chain [ADA17, BNMH17, BLBS17, BDP17b, BS17b, BS18, Bogo17, CDE+16, DdFP18, DWC+17, EMEHR17, EN17, GvRS17, GKW+16, GG16, HM16, Her17, LSF17, LDH17, LN+17, MDAP16, MAP16, MBC17a, MHH, O'C17, PdWWS16, RBS17, Six17e, Spol17, SD+17, Vuk17, Yer17, ZZJ17, Ano18a, CV18, Cro18, Vra17, Xl16, PdWWS16, RBM17].

Blockchain-change [Gal18].

Blockchain-Normal [JZLL17].

Blockchain-NDN [JZLL17].

Blockchain-time [Swa16].

Blockchain-Technology [JCG17].

Bluebird [CMK15, JSK+17, Bra15b].

Bloom [GC17].

Blockchain [GCG14].

Blueprint [Sac15a, Swa15b].

Blue-Wallet [BDW14].

Boards [CG17].

Bond [LS17].

Bonneau [Ano16b, SM-16].

Book [Ano16b, Lev17, SM-16].

Book-smart [Lev17].

Boom [Pal18].

Botcoin [HDM14].

botnet [DH17, Goo18].

Botnets [AMLH15, AMLH18].

Bougie [HDM14].

Break [LP18c, NC17a].

Breaking [LP18c, NC17a].

Breath [CR18].

Bridging [Dan17a].

Brief [SPB17].

Briefing [Ano18h].

Broadcast [MPSP17].

Broader [YWS18].

broke [Ste17].

Broken [GCR16, GCR18, Rou18].

Brother [Cha85].

Browser [Abr18].

Bubble [God15, Kru18, Pop18b].

bubbles [CF15].

Bubbling [WM18].

buck [Tun18].

Bug [Chi13, WLXC17].

Build [Chi13, WLXC17].


correlation [VB08]. Core
Could [CEN14, DXR+17, NH17, FS16, KH16, LP18c, Tun18]. counter
่าย [Bac02a]. Countermeasures
Countries [Ano18d, OA17, AR15]. Counting
Crowd [BLNN17b, SVL17]. Crowd-Based
Currencies [Ano18d, Cou14, GM17, Hil14, JW16a, JW16b, Mor17a, Spr13, TS16, Ale18, Cae15, CRdK16, HS16a, Kel15, Lau11a, Lyn14, WLS17]. Currency
Crypto-Currency [Ker18a, KN12, CXS+17, BHI+14]. Cryptocurrencies [Cae15].
Cybersecurity [DSM+17]. Cycle
D&I [Li14]. D5 [OA17]. Dagger [But13a]. Dance [Bhe17c]. Dandelion
DAO [DMH18c]. Dark
Darknet [KCD17]. Darkweb
Dashcams [WBK+17]. Data
AC17, ARBK17, ADA17, ACV17, CSN14, DCK17, DMR18, Dre17g, Dre17i, Dre17n, Dre17t, Dre17y, ET17, ECo17, EG17,
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].

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Discount [MKKS14, MKKS15].

Discovering [Dre17f, EZ17, EZ18].

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disruptive [FRSU17].

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Distributing [Dre17g]. Distribution [Ye015].


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Docker [XJR+17]. doctrinal [HA15].

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document [HS91].

Documentation [Ano17b]. Documenting [Dre17h].

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doors [LZDA16].

Doppelganger [KKS+17b]. DoS-resistant [Voi11].

Double [DN17, KAC12, KAR+15, LZZ+17, anOE17, PRI16, DB16, YSLH17].

Double-Financing [anOE17].

Double-cloud [pr16]. Double-Spender [DY17].

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Down [Son14, Vig15, Zet13, Sha17].

DP [GANAHJ17]. DPS [FF17]. DPS-Discuss [FF17].

Drain [VBC+17]. Draw [Ano18], Ole18. Dread [RS14].

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Drive-by [Seg18].

Driven [HSB17b, HSB17a, HSB17d, HSB18f, HSB18e, HSB18h, DMR18].

Drones [SYK17].

Drug [Zet13, Gei16].

Dry [LJG15].

DSA [GGN16, GGK+14].

DSA/ECDSA [GGN16, GGK+14].

Dubious [Roo18].

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dwelved [UJ16].

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Dynamics [EDS15, Bla18, GKO17].

E-Cash [MGGR13, BB15, Nak08b].

E-commerce [XLM+17].

E-Democracy [QFLM17].

E-Government [QFLM17].

e-Governement [OJ17].

E-Voting [HTCW17, HTCW18].

Early [KD16, Mul14g], earned [Tun18].

Earnings [Mat13].

Earns [WvB14],

East [Ber17].

Easy [But13a].

Ecash [Pan96], Ecash [Sch98].

ECBC [XZK+17], ECDSA [DS17b, GGN16, GGK+14, Lin17].

Economic [Bon16a, DdFP18, EKK+17, Eva14, Hal18, Pav18, VC15a, VC15b, VCS03].

Economics [Bhe17b, Bcem15, CGB, Fra14, HS16d, Hou14b, Ker18a, HS16a, KDF13].

Economies [MDAP16, MAP16].

Economy [BDP17a, Bhe17c, XSC+17, Har17, LP18c, Sir16b, Swa15b, TKW15].

Ecosphere [Six17a, Six17f].

Ecosystem [Cus14a, GHMO17, GDP+17, Kab17, VTM14, Cus14b, DMH18b, MBB13b, MBB13a, YV17].

Ecosystems [SW17, Sto17].

Edge [SD16a].

Editor [Wri16, Wil17].

Education [RDR17, SL17, CXL18].

Educational
Edward [HRE17, SD16b, XZK+17]. eff ect [NC17a]. Effective
[HCD15]. Effects
[MG17, OOF+17, KCS+14]. efficiency
[BHS93]. Efficient [DS17b, FYK+17].
JKKX16, Lau11b, MHWK16, RAH+15,
TDF17b, XZK+17, XCG+17, ES16, Lau11a,
LLZ+17, VD17, WDL+18]. Effing [MSC15].
Effort [Coe08]. eGose [ACM17c]. eHealth
[DRX+17, SDT17]. Eigentumsrechten
[HP17, HP18]. Einordnung [SKG12].
Einsatz [DF17a, DF17b]. Einsteiger
[Ale18]. EIP [Woo14]. EIP-150 [Woo14].
electric [Sch14b]. Election [MG17]. electric
[KUE17, ZW15, ZW17]. electricity [Fai17].
Electronic [ACM17c, Ano17a, Cha81,
MY11, OO91, Sub17, Nak08a, Pan96, Sub18].
Electrum [VCLK17]. elements [Uri17].
eliminate [LLZ+17]. elliptic [WHJ17].
Elon [Sha17]. emails [Pal18]. Embedded
[LMWL17, LL16, LL17a]. embrace [Cae15].
Emerging [ACW17, KD16]. Empirical
[KL17, MC13, VTM14, Vel16, WLXC17,
CF15, BBBB15]. Empower [DXR+17].
Enabled
[Las17, LN17, SS17b, BKMT17, DMH18b].
Enabler [CBWF17, SS17a]. Enabling
[ABL18, Oln16, XSC+17]. Encrypted
[AAG17, DCK17, FYK+17]. Encryption
[DX17, FYK+17, LLW17, Mer88]. End
[BMS17, MBB+15, Rot17]. End-to-end
[BMS17]. Energy [LDWS17, Pop18a,
Kug18, MNB+17, OMI14, TKW15].
Enforcement [ME17, WBK+17].
Enforcing [Zei16]. engine [WDL+18].
Engineering [Frl14, PPTM17, Sve17].
Enhance [SOA17]. Enhanced
[CC16, LST+17, XJY17]. Enhancing
[CP17b, MO15, WA15, Hea13]. enigma
[Nis16a]. enormous [Fai17]. Enough
[ES14b, ES18]. Enterprise
[Mor17a, dKW17]. entire [Nic17]. entities
[YV17]. Entrepreneur [IM16].
entrepreneurship [NC17a]. entropy
[PW17]. Entwicklung [FRSU17].
Environment [LST+17, KK17b, LL16,
LL17a, Li14, WLL+13]. EPBC [XCG+17].
EPR [PLSS17]. Equihash [BK17b]. equity
[ZZ16]. Equivocation [RKS15, TD17b]. era
dS17a]. Erratum [ZF17, ZDL17b]. erste
[SKG12]. Escrow [WLY17]. ESORICS
[GANAHJ17]. estimated [Nic17].
Estimating [Bon14a]. estimation
[Kat17, YV17]. ETH [Osb18a]. Etherum
[EBS18, ABC17, BKT17, BCM16, Bon16b,
BO17, But13b, CCMM17, Dan17b, DMH18g,
DMH18m, Hir17, JCHSR16, KLM17, MB17,
NPS+17, Six17g, Wll14, ZWW+17].
EtherQL [LZY+17]. Ethics [AM15, UJ16].
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[AKR+13]. Evaluation
[ACW17, DCK17, FOA16, IGRS16]. Even
[Ler14a, VM15]. Event [Hul17, Tac17].
Event-based [Hul17]. eventual [Sir16a].
ever [Fai17]. Everyone [GH17].
Everything [Far18a]. Evidence [DVRM16].
Evil [Kru13]. Evolution [FPKH17, KB17S,
Kü16, Smo18, Tay17, W15, OC16].
Examining [KCD17, VBC+17, Uni14].
Exchange
[C116, HG15, JMM14, MSCH15, MC13,
RJK+17, YSZ+19, Abe18, WH17, Cim18a].
Exchanges
[BB+15, DGS15, Son14, WSZ18, K.13].
Exchanging [WvB14]. Exclusive
[WREK18]. exclusively [CSG+18].
Executing [SCAA13]. Execution
[EMEH17, GBP17, SCAA13, WX+16].
Executive [WREK18]. Expected [Sid14].
Experience [Riz16]. Experiences
[KJGW17]. experiments [Li14].
explaining [BWZ17]. exploited [Fir18].
Exploiting [MHH+16, DMR18].
Exploration [LCL17, SK17, BB14].
Exploratory [BO17, LW16]. explorer
[KK17b]. Exploring [CXL18, KSC16].
OOF+17, SK15, WL15, Gom16]. Extended [BLMR14, Hu17]. 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]. Fall [Son14]. falls [Lee13].
Fanbit [HRE17]. far [Goo18].
Farming [PTPR17, PTPR18]. Fast [DW15, KAC12, Lin17, LZC+17, SCA13,
SZJ17, SZ13, Uri17, VB08]. faster [CEN14, Ler14a]. Fault [BSV17].
Fault-tolerant [BSV17]. FAW [KKS+17c]. FBI [Gre13]. FC
[BBMS14, BCJR15, CSN14, CMR+16, GP17b, JRB+17, Jue04, Ker12, Sad13].
Fears [HM18]. Feasibility [JCG17, SL18].
Features [Bog17, Con16]. February [CMR+16, GP17b, Jue04, Ker12]. Federal
[Int14]. Feds [Zet13]. Fee [GCD16]. Feed [ZCC+16]. Feeding [Fai17]. Feel [SIDV14].
Fees [MB15]. Felten [Ano16b, SM+16]. Ferenda [Kuin16]. Fi [SII16]. fat [G17].
Fiction [Lin15]. fights [Tun18]. Filters [GC14]. Finance
[Bhe17d, Edw15, Eya17, HSB17b, HSB17a, HSB17c, HSB17d, HSB18a, HSB18b,
HSB18e, HSB18g, HSB18h, HSB18i, TBY17].
Financial [Ami16, DMH18, EMEHR17, HRF17, JBL17a, JMK17, K.13, Lee15, Lew15,
LMR17, LP18c, Six17d, VX17, BBMS14, BCJR15, CSN14, CMR+16, GP17b,
JRB+17, Jue04, Ker12, Sad13]. Financing
[Ano17e, Finanzindustrie [Six17d].
Findel [BKT17]. finding [Lar13]. Findings
[BBBB15]. finds [Aro12, Edw15]. FinTech
[WM18]. Fire [RKS15]. firms [K.13].
Firmware [LMWL17, LL16, LL17a]. First
[BL15, BPK17, Pav18, PL16, SDT17, Ano17a, BHI+14, EBSC15, Ker18b, SKG12,
YM17]. First-Generation [BH15]. Fishes
[ZW17]. Fistful [MPJ+13, MPJ+16]. fix
[Lee13]. FL [Jue04]. flounce [Cae15]. flash
[MBD+12]. flash-speed [MBD+12], flaw
[Duc13, Fir18]. flaws [FB17a]. 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 [BDLF16, Son16].
Formalized [CSX+17, LN17]. Formalizing
[AKGN18, Wel18]. Fortune [Pop17b].
Found [Kee16, Pop17b, YWJ+16].
Foundations [DH18b, Gom16, HSM17].
Founding [EL14]. FowlerNollVo [VF91].
FPGA [SNM17]. Fractal [DVRM16].
Fractality [LB18]. Fragen [BP17b].
Fragmentation [Bhe17d]. Framework
[BLPB17, DW17, HL16, Lasi17, AOE17,
PTPR17, PTPR18, RS17, SK15, GIM16, VCS03]. Fraud
[CZ16, CBWF17, HRF17, Kru18, MMT16b,
RRCL17, Kha15, MMT16a, UD17].
Fraudulent [LA16]. Free
[SP17, VM15, Six17]. FreeBSD [Ano18b].
freedom [TF16]. Frees [Hon14b]. Freicoin
[TF16]. French [San14b, TFG17].
Frequency [Via16]. Friends [AMVA17].
FruitChains [PS17]. Fuel [Car15].
Fulfillment [Nis16b]. Full
[Ano18b, HSB17c, HSB18g, MMT16, RS13].
Function [Bac03, MRR17, Per09]. fund
[Pan96]. fundamental [CF15]. Funding
BDW17, LH17. funktioniert [RE18].
Funktionsweise [Ker14, RE18, Six17h]. Further [Dre17u]. Future
[BBI15, BK17a, BK18, Car15, EGB18, Her17, JKS16, MDAP16, MAP16, PP16, Son16, Fri14, SKG13]. fuzzy
[Che18, WZQ +17].

Gamble [Roo18]. Gambling
[MCH17, MMH17]. Game
[Hou14a, Hou16, JLG +14, Kra16b, LJG15, LBS +15, Ort16]. Game-Theoretic
[JLG +14, LJG15]. Games
[KKKT16, LSP +15]. Gaming [Pia16]. Gap
[Dan17a]. GARCH [Kat17]. Gasp
[Bue18]. Gateways [YWJ +16]. Gave [Pav18].

gearautomatisiert [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, AMLH18, BHI +14]. genius
[Gei16]. Genomic
[KPK17]. Geospatial
[FHS +17]. German
[ABR17, Ale18, Ano16a, Blo18, BP17b, Cap12, Dix17, DF17b, FRU17, GH17, HP17, Ker14, KFR17, LPW17b, MG16, Möl13, PB17, Pla13, RE18, RBM17, San14a, Six17a, Six17d, Six17c, Six17h, Six17f, Six17i, Six17j, SKG12, SKG13, Sto17, WLS17].

Geschäftsmodelle
[RB17]. Get
[WM18, Pec15]. GHash.io
[Mat14].

GHOST
[KKŠ +17a]. Gibbard
[Ano18f].

Gifted
[Ro13]. giuridica
[Cap15]. Glimpse
[LMLA17, Pav18]. glitch
[Lee13]. Global
[ACM15, Ali15, MMT16b, Mul14h, Yeo15, CV18, CRdK16, VC15a, VC15b]. Go
[BS17a, Fai17]. Goals
[AKP17, AKP18]. Going
[Dre17u, GCD16]. Gold
[BBI +18, DMH18]. Cap12, Nis16a, Pop15, Pop16b, Sza08]. Goldfeder
[Ano16b, SM-16]. Goldstrike
[BHI +14, BH15]. Golumia
[Lut17]. gone
[Nic17]. Good
[AKP17, AKP18, BP15, WA15, Bon14b, Ito18, Pla13]. Got
[Ro13]. Govern
[RRD17]. Governance
[ACM17c, BCD15, MOR17b, QFLM17, ROH16, Yer17, CV18]. Governed
[LDH16, NOT15]. Government
[OA17, Öln16, ÖJ17]. Grand
[Far18a, Ort16]. Graph
[DHES16, FPK17, MMR16, OKH13, RS13, ZG15, BDP +15, DMR17a, DMR18, Tro15b]. Graph-Based
[ZG15]. graph-theoretic
[Tro15b]. Graphene
[OAB +17]. Graphics
[Zei16]. Gratis
[Six17f]. Gratis-Bitcoin-Ökosphäre
[Six17f]. Great
[WA15]. Green
[PTPR17, PTPR18, CCMN17]. Grid
[GH05, KUEE17, KUEE18, ALP15, MNB +17]. Grind
[JB18]. Group
[OOD +17, Tun18]. Grouping
[NTKS17]. grow
[Ker18b]. Growing
[JB17b]. grows
[SZ13]. Grundlage
[RB17]. Grundlagen
[BP17b]. guarantees
[CCMN17, Sir16a]. Guidance
[Int14]. Guide
[Sch14a, BDP17a, BT18b, Mil15, Pro13, Pro14]. Guidelines
[BO17]. gut
[Pla13]. Gyges
[JKS16].

Hack
[McM13, Nak18, WSZ18]. Hacked
[Abe18, DMM18c]. Hacker
[Osb18a]. Hackers
[WREK18, Nic17]. Hacks
[dre14]. Hadoop
[Li14]. Handbook
[LMC18, Lee15, MG16, OZ16]. Handbuch
[Ale18, MG16]. handful
[AF16]. Handling
[LMLA17]. Hands
[PL16]. Hands-on
[PL16]. Handshake
[XJY17]. Hard
[But13a, Lar13, Ler13, ML14, Per09, Tro14a, Tro14b]. Hardfork
[MCH17, MMH17].

Hardware
[BNMH17, NMM16, SNM17, Taw17, WRB15]. Hash
[Bac97, Bac01, Bak09, VFN91]. Hashcash
[Bac02b, Bac02a, Bac03, Tro15a]. Hashimoto
[Dry14]. Hashing
[Dre17a, Dre17b, Ler13, Tro15a]. HCI
[SK15]. headless
[TFG17]. Health
[DMH18c, SDA17]. Healthcare
naar [PdWWS16]. Nakamoto [Sha17]. Namecoin [HQ15]. named [JZLL17]. Names [MPJ+13, HS97, MPJ+16].
Necessity [ZP17a]. needed [Pec15]. needs [Pec15]. NEM [Ano18i]. nervous [Ano13b].
Network [AK17, BKP14, DW15, DPSHJ14, EBHBL16, FOA16, FSW14, KLM17, KKMI14, LLW17, MCD15, NAH16, NH17, RRM18, SOA17, SCAA13, SMZ14, VFV17a, VFV17b, WL15, WRB15, YK15, BS15, Cas12, CK16, DW13, FOA17, IKY05, KCS+14, Lee13, NC17a, NAH15, Six17b]. networking [JZLL17]. Networks [BDW17, EKK+17, FDT17, JL17, Kat16, KG17, LMH16, MMSK+17, MSSH16, PSS17, RTL17, SYK17, SZJ17, A+13, Che18, HLC+17b, LP18c, TKW15, VD17]. Netzwerks [Six17a]. Neural [JL17, Che18].
Never [McM13]. newly [Pal18]. News [Kug18, Pec15, Pec16, Und16]. Next [AMLH15, Butt13b, OA17, AMLH18, LP17b, LP17c, LP18b]. Next-Generation [AMLH15, Butt13b, AMLH18].
Non-equivocation [TD17b]. Non-Repudiation [FTD17]. Non-Users [GCL16]. Noncausal [HG15].
Nxt [Pop16a]. NY [IKY05].
O [Dry14]. Object [OR17]. Object-Oriented [OR17]. Objects [AKGN18, Wel18]. Oblivious [CX5+17, KPK17]. Obsidian [Cob17]. obsolete [Cha85]. Obstacles [Mei18].
Odometer [CBWF17]. Off [ET17, GH05, HBG16, KG17, Kra16b, MKKS15, Gal18, Lee13, MKKS14].
Off-Blockchain [HBG16, KG17]. Off-Chain [Kra16b]. Off-Chaining [ET17].
Off-line [GH05]. öffentlicher [PB17].
On-Blockchain [HBG16]. once [Sha17].
Oncology [DXR+17]. One [GCL16, Pav18, Uml14, Tun18]. Onion [GDY+17]. Online [Chr13, JKKX16, LD17, RRC17, CZ16]. only [LP18c]. Onto [SD16a]. Ontology [RC16, dKW17]. op [PdWWS16].
OP_RETURN [BP17a]. Open [ACM17c, BLBS17, HRE17, LNZ+16, TNM17, dCdCM14, Cap12, Hol15, KS18, Cap12].
Open-source [dCdCM14, Cap12].
Open-Source- [TNM17].
Open-Source-Geld [Cap12]. Opening

P2P
Processor
[BH15, Sou13, BHI+14, WLL+13]. Product
[LD17, LX17, KFR17]. products [SV16].
Produkt [KFR17, KFR18]. Produkt-Sicht
[KFR17, KFR18]. Professional [BT18a].
Profit [SCYP17]. Profitable [SVL17].
Profits [VM15]. Programmed [Cun14].
Programming [Cob17]. Programs
[TOM17], progress [ÖY17]. Project
[DMH18]. Projects [BO17, OOF+17].
Promise [Fot17]. Promises [Rou18].
Promising [HRE17]. promptly [Far18b].
Proof [Abr16, Ast16, Bac03, BL17, BBH+13, BLM14, BK17b, Coe08, DFKP13, GKW+16, Kam17, KN12, Lar13, LAB17, MHKW16, Pur14, SLY15, SDK+17, Tro15a, Voi11, Vuk16, Dry14, KRDO17, Kin13, Shi16, Trol14a, Trol15b, WHJ17, LC04].
Proof-of-Belief [Abr16]. Proof-of-Stake
[BL17, KN12, LABK17, KRDO17].
Proof-of-Work [Bac03, BBH+13, BK17b, Coe08, Lar13, SLY15, Trol15a, Vuk16, Kin13, Shi16, Trol14a, Trol14b, Trol15b, LC04].
Proofs [DBB+15, SBR16]. Propagation
[FOA16, OAB+17, SOA17, DW13, FOA17].
Properties [Gar17, YK15, DMR18].
Property [Int14, Ze16]. proportion
[YZ17]. Proposal [GP17a, SL16, HC12].
Proposals [Bra13, EBHBL16, ALMS16].
Prospect [SCYP17]. Prospects [Hil14].
Protect [JJ16, RS14]. Protected
[JJ16]. Protecting
[Dre17k, Dre17n, WLL+13]. protection
[BP17b, HWD17]. Protocol
[BL17, Böh13, Coe08, GKL17, HLC17, KKS14, LN17, Lel14b, LLW17, LNZ+16, MLL15, MSH17, MHKW16, OAB+17, PSS17, SYB14, SALLY17, WCL17, ZP17a, BB15, GKL15, Hea13, KRDO17, Lel14a, CFvdPS15, ML17, VG17, ZW15].
Protocols
[BK14, LABK17, Mer80, MXC+16, KKS+17a, PLSS17, P16]. Provably
[SDT17]. Provably [Pia16, KRDO17].
ProvChain [LST+17]. Provenance
[LST+17, NSNF17]. Provers [Hir17].
proves [LC04]. Providing [LDW17].
Provisions [DBB+15, GCKG14].
Proximity [SOA17], Prozess
[KFR17, KFR18]. Prozess-
[KFR17, KFR18]. Pseudo [MY11].
Pseudo-anonymous [MY11]. Pseudonym
[FWB15]. Pseudonymization
[FWB15, KMMW17]. Pseudonymous
[FF17]. Pseudonyms [Cha81].
Public [CGJ+17, Eva14, GP17a, HRF17, Muf16, XCG+17, XSC+17, vdHKZ14, AR15, Mer80, PB17]. Public-Ledger [Eva14].
Publication [ALP15]. Publicly
[Bac02b, YCX18]. Publish [ZP17b, ZJJ17].
Publish/Subscribe [ZJJ17]. Puerto
[BCJR15].
pujno [AF16]. Punishes
[YWW+18]. Purposes [Int14]. Push
[SD16a]. Puzzles [BC16a, ML14, MKKS14, MKKS15, RRCL17, RSW96]. PVORM
[CZ17].
Qatar [Ano18j]. quality [BR17].
quantification [Dev14]. Quantitative
[RS13]. Query [LZY+17, XZK+17]. Quest
[Vuk16]. Questions [Pav18, BP17b]. Queue
[ZWW+17]. Queue-Based [ZWW+17].
Queueing [KK17a]. Quick [LSO+15].
R
[Li14]. R-Hadoop [Li14]. Race
[Mat14, Pec13]. Radiation [DXR+17].
Raises [Pav18, Osb18b]. RAM [KPK17].
Rampenlicht [ABR17]. random [Duc13].
randomness [LB18]. Ransom [BBM+18].
ransom [LZDA16]. ransomware [UJ16].
Raps [YWS+18]. Rate [SZ15]. Rates
[HG15]. Rating [Van14b]. Re [Nak08b].
reader [BGPW16]. Real
[Dre17j, ECHL16, Lei16, NCS17, RRCL17, WM18, Wör16, XLM+17]. Real-Time
[Lei16, Wör16, XLM+17]. Real-World
[EC116, NCS17]. Realities [Eva17].
Reality [Mic14]. Realization [DNP17].
really [BWZ17]. reappeared [Osb18a].
reasoning [PLSS17]. Rebalancing [KG17].
Recht [Ano16a]. Recognizing [Dre17o].
Reconciliation [OAB+17]. Record
[Liu16, SD16b]. recovery [CSC16].
Recruiting [ACV17]. Red
[BDOZ11, BDOZ12]. Redactable
[AMVA17]. reden [GH17]. Redesigning
[VFV17a, VFV17b]. redirection [CEW15].
Reference [AS14]. Refinable [DHES16].
Reflections [Gev16]. Refund [MSH17].
regarding [Ano18i]. Register [ALPBT17].
Registration [AABM17]. regulatory
[LY14]. reimburse [Abe18].
Reinforcing [EN17]. reinvent
[Pop15, Pop16b]. Reinventing [Dre17p].
Related [KCD17, WB17]. Relational
[AAG17]. Release [Mat13, Woi18, RSW96].
released [Sch13]. reliability [BHS93].
remains [Goo18]. Repay [Nak18].
Repeatable [WDLs17]. replaces [Goo18].
Replication [Vuk17]. Repositories
[MGDEK17, MGDEK18]. Representatives
[Uni14]. Repudiation [FDT17].
Repurposing [MJS+14]. Reputation
[ME17, SD16b]. Requirements
[LN17, Lei16, SL18, MAQ99]. Research
[BNMH17, BART17, BMC+15, GKL14, HJ15].
LHZ17, NMH16, OZ16, RS17, SDT17, SK15.
Vel16, BR17, LMC18, ZFY16, ZFY17,
HMS17]. Reshoring [ME17]. Resistant
[BOLL14, FWB15, HL16, FF17, Voi11].
Resolution [ABL18, BT18a, NOT15].
Resource [XWW17, vdHEM+17, VCS03].
Resource-constrained [vdHEM+17].
Resources [HRE17, IM16]. Respecting
[XSC+17]. Response [LSO+15]. Restoring
[EBHB16]. Results [GG17]. Rethinking
[Vuk17]. Retricon [SBRS16].
Retrievability [SBRS16]. Retrieval
[MGDEK17, MGDEK18]. Return
[Cha81, YK15, BOS15]. returns
[Osb18a, VX17]. Revealing [GZH+14].
Reveals [Ker18a]. Reverse
[HSB18c, HSB18i]. Review [Ano16b, KS18,
OA17, SM-16, SS17a, CSG+18]. Revised
[BBMS14, BCJR15, CSN14, GP17b].
JRB+17, Ker12, Sad13, CMR+16, Jue04].
Revision [Woo14]. Revisited
[CGGN17, Bar17]. Revising
[DL197, DLL00, HMS17, MCJ17]. Revive
[KG17]. Revocation [DNY17]. Revolution
[Kun16, Das14, Hal18, Rot17, TT16, TTC16].
Revolutioniert [HP18, HP17].
revolutionizing [HP17]. Revolutions
[DMH18]. Reward
[CKWN16, GCD16, Ros11, SBBR17, SD16b].
rewards [SIDV14]. Rewriting [AMVA17].
RFID [Mic16]. RFID/NFC [Mic16].
dichten [FRSU17]. Rico [BCJR15].
Right [FRSU17, Lut17, SK14].
Right-Wing [Lut17]. Rights [KKS14].
Ring [JKS16, MPSP17, NM16, SLY17].
RingCT [SLY17]. Ringing [BW17].
Ripple [SYB14, Ale18]. rischi [AF16].
Rise [Bec18, Son14, Gei16]. Rises [Vig15].
Risiken [Ker14, San14a]. Rising
[Sid14, Pro13, Pro14]. Risk [Kab17, MC13,
MBB14, SIDV14, YWJ+16, KBS17, San14b].
Risk-rewards [SIDV14]. Risks
[AAG17, MHH+16, Peo13, AF16, Ker14,
San14a, Uni14]. risques [San14b]. Road
[BABD17, FRSU17, PDWWS16, Chr13,
Gre13, Zet13]. Roaring [Wol18]. robbery
[Gal18]. Roberts [RS14]. robust
[MMT16a]. Roger [MCHM17, MHM17].
role [Bla18, Bra15a]. Rolle [Bla18]. Ross
[Gre13]. Route [RLT17]. Router [WCL17].
Routing [AZV17, EKK+17]. rubbish
[Sha17]. Rule [Con14, DW18, VB08]. Rules
[Int14, Ber13]. Run [LJG17]. Running
[BCM16]. Rush [BBM+18, DMH18i].
Russia [ ACM17c].
Scalability
[BCJR15]. **Sanctions** [Ano18d]. **Santa** [CRS83]. **Sarkar** [BB15]. **Satoshi** [Sha17]. **Satterthwaite** [Ano18f]. **saved** [Bar18]. say [Far18a, G.17]. **Says** [Ano17e, Gre13, Far18b, Nic17, Sha17].

**Scalability**
[HJPS16, Kar16, PS16, vdHEM++17].
**Scalable** [BABD17, BDW17, DW15, LSFK17, Vuk16, RST11]. **Scale** [Riz16, Far18a, SIDV14, SZJ17, WLXC17].

**Scoring** [CDE++16]. **scam** [Goo18]. **Scams** [VM15, dre14]. **Scan** [AGGM16]. **Scenarios** [BBH++13]. **Scheme** [CGFH16, KLR++17, KFN++17, ES16, GGK++14, YCX18].

**Schemes**
[Ano12, DP18, GCD16, KT15, RS96b, Lew15, RS96a]. **School** [BKM++17]. **Science** [BLBS17, DHH18d, LH217, LMC18, Wat17].

**Scoring** [MBB14]. **SCPKI** [AB17]. scrambled [Lee13]. Scrapes [Pop17a].

**Scratch** [MKKS14, MKKS15]. **Scratch-Off** [MKKS15, MKKS14]. **Scrypt** [But13a].

**Search** [KLL++15, MLM16, MLM15].

**Searchable** [AAG17]. **Seasonality** [HQ15]. second [Uni14]. **Secret** [GP17a, JKK16].

**Sector** [HRF17]. **Secure** [ADMM14, ADMM16, BDWW14, BKT17, DNY17, EL14, FMR++16, FHS++17, FYK++17, HS97, Hal17, HS16d, KFN++17, KMOD17, KB16, KVV16, LNZ++16, PTPR17, PTTR18, SL18, SZ15, SDK++17, Tac17, WLY17, WZQ++17, ZGH++15, ZMH++17, ZMH++18, KRDO17, LL16, LL17a, Lin17, MAQ99, Uri17, VCS03, Woo14, AABM17, CDD17]. 

**Secured** [LN17]. **Securing** [GGK17, LABK17, DS17b].

**Securitisation** [HSB18c, HSB18b]. **Security** [ACM17a, ACM17d, A++13, BB15, Bra15b, CC16, Cha95, CSN14, GGN16, Ger16, GKW++16, GCR16, GCR18, bAHRAK17, bAHRAK18, JRB++17, Kar16, KC18, Kat16, Ker12, KJGW17, LDWS17, KL+14, LDH17, Mor17i, Sad13, SDT17, Sch98, SIDV14, Son16, Sve17, TSL++17, XWW17, dCdCM14, BBMS14, BCJR15, CMR++16, DSM++17, FB17a, GP17b, IYK05, JO13, KA16, KBS17, KS18, sir16b, Tun18].

**Security-critical** [dCdCM14]. **Seeing** [Bog17, Dre17q, Dre17r]. **seek** [Far18b].

**Sees** [Sid14]. **Seized** [Gre13]. **seizures** [Ano13b]. **Selected** [BBMS14, CSN14, JRB++17, Ker12, Sad13, Ano14b, BCJR15, CMR++16, GP17b].

**Selection** [RLT17]. **Self** [Con14, LMH16, MDAP16, MAP16, Nis16b, Pia16].

**Self-Contained** [Pia16]. **Self-Destruction** [Con14]. **Self-Fulfillment** [Nis16b].

**Self-managed** [LMH16]. **Self-Organized** [MDAP16, MAP16]. **Selfish** [KKS++17c, SSZ17, ZP17b]. **sell** [Lee13].

**sell-off** [Lee13]. **Semantic** [FR16]. **Semi** [KMMW17]. **Semi-structured** [KMMW17].

**send** [Far18b]. **sending** [Pal18]. **Sensing** [SVL17]. **Sensor** [ME17, WB14].

**Sensor-Based** [ME17]. **Sensornetzwerke** [TNM17]. **September** [GANAHHJ17]. **sequential** [Per09]. **server** [Ano18g].

**Service**
[BSV17, GvRS17, KET++17, SS17a, SYK17, VTM14, ZZJ17, Bac02a, MAQ99, Bec16].

**Service-Oriented** [GvRS17]. **Services** [CGGN17, HRF17, JBJ17a, Mul14d, dBHC17, SYZ16].

**session** [Uni14]. **Set** [OAB++17].

**Sets** [AC17]. **Setting** [NTKS17]. **Settings** [NTKS17]. **Seven** [Con16]. **SHA1** [Stc17].

**SHA256** [CGN14]. **Sharding** [GvRS17, LNZ++16]. **Share** [KKS++17b].

**Shared** [ALPBT17, CLW17, MB+12].

**Shares** [ZGR17]. **Sharing** [BCM16, FHS++17, JKKX16, LSM17, SBHD17, XSC++17, SYZ16, VCS03]. **Sharks** [ZWW++17]. **Shipping** [JB18]. **Shopping** [LD17].

**Short** [BDLF++16, GvRS17, MCJ17, XJY17, Pla13].

**Should** [Chu15, MC13]. **Shows** [MC13].

**Shuts** [Son14]. **Sicht** [KFR17, KFR18].

**Side**
[ABF++16, AGGM16, BBM++18, KJGW17].
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