A Bibliography of Publications about Bitcoin and Digital Cash Systems

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Title word cross-reference

$1.2M$ [McM13]. $10$ [Pop17a]. $100\times$ [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]. $+\{ZY21\}$. $\delta$
[LL17b, LL17c]. $\mathcal{PCS}$ [KLR+17a]. $N$
[ZGR17]. $n/2$ [XHST20]. $t$ [PCP20].

* [SKNM21].

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

/ACM [TODM19].
83 [CRS83]. 8th [Jue04].

ABE [GLY+21, HLF+21, SJB22]. Ability [SGF+17]. abnormal [HYWY22, LTB+22].

Abstract [BLMR14, DNSY14, HJL14, Hu17]. abstracted [YML+22]. absurd [Fai19].

Abu [ACM17a, ACM17b, ACM17d]. Abuse [VBC+17]. Academic [LHZ17, NC17b].


Account [CLJ+21, Dre17k]. Accountability [GP17a, HM16, KAR+15].

Accounting [Bys19]. Accounts [CLJ+21, Dre17k]. Accreditation [BK22].

Accumulator [SALY17]. Accumulator-Based [SALY17]. acéphale [TFG17].

Achieving [GadFGMA21, GLY+21, GWF+21].

ACIDRain [WB17]. ACM [ACM17a, ACM17b, ACM17d, TODM19, MFR+21].

ACNS [IKY05]. Acquire [RS14]. Across [BGPW16, GCL16, WXH21, AAC+19a, GDKJ22, Tre22, ZAE20]. act [Pec15].

active [Goo18, HZT+22]. Activities [ME17, WPC+22, NBP+21]. Activity [BLMR14, CTM19, KFBI22, LTC+19, RRM18, Smi18, YNS16, IFD+19].

Activity-Based [YNS16]. Actors [DWS21].

Ad [CGFH16, KT18, LHM16, RLS+21, NAR+22b]. Ad-Hoc [RLS+21, CGFH16, KT18, LHM16, NAR+22b]. Adaptable [LTX1].

Adaptive [XWY+21, AAGX+22, RZJ20]. Added [WLSZ17]. Adding [DGHK17, Dre17z].

Address [EPY17, FPKH17, FPD+21, HM16, NH17, WLY17, WTW+23, CAS21, Goo18, SPZ+20].

Addresses [Cha81, GCL16, FBGMPS23]. Addressing [DNP17]. Adhocracies [Uli16].

adjacency [LX21]. Adjusting [KJ17, KJ18]. admin [Cim19].

administration [AR15]. adopting [AZR+20]. Adoption [AA20, BBBBB+15, Böhl13, Fug19, Gou19, Mei18, PZZ+20, SLL17, Str18, KVP21, MAAN19, WCX16].

advanced [CAMS20, GLTS22]. advancement [PC21]. advances [AKT21, MKY+21, CRS83, OF15].

Advancing [BLBS17]. advantage [PR16]. adversarial [ZSGB+22]. adversaries [KDF13].


After [KK+17, LJK+17, LL18, McK19, YWW+18, YWS+18, YCP+21, Abe18, Cim19, K.13]. again [Cim19].

Against [ABL+18a, HYP+22, JLG+14, ZP17b, Bie16, Boi18, EGB18, FTS+20, MLYL20, SGM20, YSLH17]. Age [Tay13, Fin17b, VC15a].

Agenda [GK14, CRdK16]. Agent [CTM19, LUBS18, PSY21, SJ21, Sko19].

Agent-Based [LUBS18]. Agile [IPL+18].

aging [BBBDN1]. agree [PCM+21]. Agreement [SL20, WHW22, BZK+21, NAR22a, NAR+22b, XLL+21].

Agri [CMT+21]. Agri-Food [CMT+21].

agricultural [RWW21]. AI [BT18a, BKS19, DT18, KGTK20, Liu18, MSA+22, TNJJ22].

aided [AC19, BKV22, Sko19, SZM22]. aim [Sal18]. Air [Ro13]. Aircraft [Ale18a, WLWN+21]. Aktuelle [Six17a].

Algorand [CM19]. Algorithm [DLL97, DCY+22, MGS22, Pop16a, SYB14, Ste17, XCW+22, Che18, DLL00, DXW21, FWP21, HZLH19, ML20, XHP+21, XWZ21, XLZ20, XBX+22, ZWH+20].
Algorithm-Based [MGS22]. Algorithmic [BT18a, Coh20, LN15, Lus18, Roi18, GS15a]. Algorithms [Bik16, DR522, Gou19, LWL+22b, XCW+22, vM18, FCH21, Fin17b].

Alle [GH17]. Alleged [Gre13]. Allegiance [LYZ+21].

Allocation [HYP+22, JWNS19, RKTV22, BKV22, BSF22, QL22, YZC22, ZZW+21, ZGR+22, ZLS+22]. Almost [Coe08, IM16]. Along [Mei18]. Also [RS21a].


Analysis [ALGK19, AS14, Ano21a, AC17, BRS17, BP17a, BS39, BP14, Bri21, CLZ+20, Chr13, Cor19, DNP17, EKK+17, FNP17, Gao17, GS20b, GS20a, GHJ21, GZ18, Gos17, HQ15, HBJB14, JLG+14, JCG17, JLLK23, KM20, KFB12, KKM14, KKS+17a, KFTS17, KKS+17b, LJS15, Leo20, LBS+15, LKL+14, LZZ21, LPS20b, LSH13, MMR16, Mah18, MKS+19, MC13, Nav17, NA16, NWG20b, OO19, Ort16, PSS17, RB16a, RT20, RH11b, RH1a, RH13, RSR17, RS13, Ros11, SLS20, SIDV14, SL18, SS19, Suk19, Swe16, TDV+22, TSL+17, TOM17, Tre21, VTM14, WCY19, WLW22, WPC+22, Wey19, ZWLS18, ZZ16, ZDL17a, dBHC17, AABE20, ASB+21, ALMLS16, BCCS20, Cap15, CA21, DMR17a, DMR18, FRF+19, GKL15, GC08, GHG+21, JB21, KAK21, KSA22, Li14a, Li14b, LZDA16, LTBY20, LHL21, LWZ+21b, MYSZ19, MM17, MSMB21].

analytic [KL17a, KT18, KK17b]. Analytics [BLPB17, BS17a, Moh19, TSH22, VRK21, VMMA17, XAZY17, XAZY18, DNZ+19, UHK+21]. Analyze [CTM19]. Analyzing [DWC+17, FSW14, GDP+17, GGS19, GGS20, KLM17, LSO+15, LF16, Liv20, OAS+21, dSR21, ZP17a, GJK+20].

analytical [KK17a, KT18, KK17b]. Analytics [BLPB17, BS17a, Moh19, TSH22, VRK21, VMMA17, XAZY17, XAZY18, DNZ+19, UHK+21]. Analyze [CTM19]. Analyzing [DWC+17, FSW14, GDP+17, GGS19, GGS20, KLM17, LSO+15, LF16, Liv20, OAS+21, dSR21, ZP17a, GJK+20].

also [Mei18]. Also [RS21a]. Alternative [Bhe17a, BLNN17b, But13a, GCD16, Gri11, Hel14, Ke15, KH17]. Am [AABM17, XGS+20]. Amalgamation [KGTK20]. Ambient [FAC22]. Among [Dre17g, MPJ+13, CK16, HS19a, LGK+22, MPJ+16, SWY+21, YZC22]. Amortizable [Bac02b]. Amortizing [KB16]. Amounts [AK14]. Amplifying [ABF+16]. Análisis [RSR17]. Analysing [Web21, YCP+21].

Analysis [ALGK19, AS14, Ano21a, AC17, BRS17, BP17a, BS39, BP14, Bri21, CLZ+20, Chr13, Cor19, DNP17, EKK+17, FNP17, Gao17, GS20b, GS20a, GHJ21, GZ18, Gos17, HQ15, HBJB14, JLG+14, JCG17, JLLK23, KM20, KFB12, KKM14, KKS+17a, KFTS17, KKS+17b, LJS15, Leo20, LBS+15, LKL+14, LZZ21, LPS20b, LSH13, MMR16, Mah18, MKS+19, MC13, Nav17, NA16, NWG20b, OO19, Ort16, PSS17, RB16a, RT20, RH11b, RH1a, RH13, SMD14, VFV17a, VFV17b, VFV17c, WLY17, AAGA19, BSK+20, DKJG19, MB17b, ZSGB+22].

Anonymization [WBK+17, MB17b, WXY+21].

Anonymous [DS15, WLS+16]. Anonymous [BSCG+14, BK17c, CLJ+21, Chr13, GCH+22, GM17, HBG16, Ibr17, MGGR13, ML14, Muf16, SCG+14, WCX21, LLC+20, LCZL21, MBK+21, MY11, SJX+20, ZLL+19a, ZMH+17, ZMH+18].

answer [Pec12]. Answers [Pav18]. Anti [Alz19, Bra13, AB20, AH+21].

Anti-BUff [AHC+21]. Anti-Counterfeiting [Alz19, AB20].


Appetite [Pop18a]. Applicability [Scr18, Alv18]. Application [Bik16, But13b, CDD17, DXR+17, GGN16, HG15, HHO+21, IM21, Jas18, KTCI21, Kue18, KPJ22, OOF+17, Son18, Swe16, Zan19, AAE19, Ano21c, DSC+17, GL16, IFF+19, KTA+20, Sar21, WMD+21, XWZ21, ZTSS20, ACW17, WLS17]. Application-Specific [Son18].

Applications [ACA+19, ANT21, Big20, }
[Far18b]. **Attribute**

[SZM22, AGK22b, GGJ22, XWY+21].

*Attribute-based*

[SZM22, AGK22b, GGJ22].

*Attributes* [CDD17, NTKS17].

*AttriChain* [SJX+20].

**Auction** [JWNS19, NT21, QL22, BKV22, CLXW22, MXW22, SZdLZ22, ZLS+22].

*auction-based* [BKV22].

*auctioneer* [DB16].

*Auctions* [Dim19, DB16].

*Audit* [Bon16b, RSGA+21, SS17b, ASM19, ZBF22].

*Auditable* [AGK22b, Bac02b, CMM+22, SBHD17, DMR19b, HSX+21, PMP19, Yue20].

*Auditing* [CCH+20, ECdO17, YMYH21, FBL+20, HAZ21, HZY+19, LKP+21, XCZ+22].

*auditor* [CFM+22].

*AUGChain* [PCC22].

*Augmented* [Pou20].

*August* [CRS83].

*Außerhalb* [WLS17].

*Auswirkungen* [Blo18].

*Authenticated* [MSCH19, ZCC+16, Yue20].

*Authenticating* [PL20].

*Authentication* [CCC19, DGP17, GADO17, GPPB+21, IK17, JLX+19, Kri19, Kue18, LN17, LLW17, ML15, XJY17, CHL19, EFFM21, FA21, HHS18, HZ20, LCZL21, LHH+18, ML17, NML19, PCC22, PHH+20, SI16, VD21, WLC+22a, XZL+22, XLL+21].

*authorities* [YYN+20].

*Authority* [LN15, Lus18, Gon17].

*authorization* [MHL20, WLC+22a, YXW+22].

*Authorized* [LWL+22a].

*Authorizing* [Drei17a].

*Automata* [ADM14b, DCK17].

*Automated* [Bik16, EMEHR17, GDP+17, Nar19, NPS+17, YW18, HFP+22, KBT20, Miss22, ML20, PdWWS16].

*Automatic* [CK16, EPY17, Ler14b, LTBY20, ADZ23, HS19b].

*Automation* [BT18a, CCH+20, NNGV19].

*Automotive* [FS16, SDK+17, Ano21e].

*Autonocoin* [Abr16].

*Autonomous* [DAAY22, HYLY19, KUBS22, NST+17, NOT15, Shi19, YMYH21, DMSCA20, KGA+22].

*Autoregressive* [HG15].

*Availability* [ASB+21, LST+17, LDH17, JO13, MOM22, ZLX+17].

*available* [RST11].

*Average* [Smi18, LX21].

*Avoid* [KK5+17, KKS+17c].

*Avoidance* [Hea13, SFMC21].

*AWAP* [XWY+21].

*aware* [BK22, PK21, RDBD19, SSSJ19].
beast [Fai17], beat [Pec16], become [CRdK16, Nor17b], bee [DXW21], Beef [RBB19], before [Far18a, Uni14], befuddled [Bar14], beginner [BDP17a, Pro13, Pro14], Beginners [Ale18b, KRL17], Behavior [HLC17b, LHL21, LGGB+21, AZR+20, KOM+22, HWW+20], Behavioral [ESLB20], behaviours [DMR17a], Behind [KD20, LZDA16, Gei16, TT16, TTC16], Behold [DMH18a], being [Far18a, Lew15], Belief [Abr16, NVE+21], Bell [BW17], Benchmarks [vM18], beneath [ZWW+17], Benefit [FS16, HB14], benefits [HiJHBG22, Uni14], Bespoke [Tay13], Best [Hal21, Rao14, WK19, CJA+19], Best-coins [Rao14], bet [Ito18], Betfunding [JCHSR16], Betrayal [Mez19], Better [BSBU12, Spol17, WM18, Lew15], Between [Chi18, HJHBG22, LJG15, Nar19, Nis16b, BSRK21, FA21, GTMP14, HZ21, JYKA19, JJ21, Klds20, KCS+14, SKG22, WlW22], Beware [MC13], Beyond [Bec18, Bdl13, GCD16, HS16b, HS16a, Oh16, Tro15a, TS16, Uli16, Ano21b, BGPW16, Bre17, BT18b, CV18, Ext15, NPDS20, Und16, ZGR+22], BFT [FWP21, MXC+16, Sal22, Vuk16], BGP [XWW17], BGPCoin [XWW17], bi [CTGJ22], bi-directional [CTGJ22], bias [Cra17], bibliometric [FRF+19, GHG+21], bid [CLXW22, QL22], bid-rigging [QL22], bidding [CLXW22, LLJ21, SCE21], bifolded [Jb21], Big [CSZ+21, CGLR19, Dre17q, Ito18, Liu16, Pav18, TSC18, Wol18, XWL+19, Cha85, CLS19a, DPN+22, ESP22, HLP+21, Kel15, Lec15, LP17b, LP17c, LP18b, Tun18, UHK+21], BigFoot [Sal22], Billionaires [Mez19], Billions [Gei16], BIM [CTM22b], Binance [Aro19a], Binary [KJ17, KJ18], Biomedical [MGDEK17, MGDEK18], Biometric [PPR+20, Sar21], biometric-based [Sar21], Biometrics [KFN+17, BILN21], BIPS [Sou13], Birthday [BK17b, Lar13], bis [MG16], Biscotti [SFYB21], BiSign [AAGA19], Bit [Sza08], BitAnalysis [SXYL23], BitBeat [Vig15], BITCOIN [BCJR15, CSN14, CRM+16, JRB+17, ADQH22, ALGK19, AGK22a, Als23, Ano18a, AZR+20, Apel14, Ara21, AW18, AAPZ19, AKWW19, AV22, AR19, BM20, BLZ20, BLM20, BLMZ22, BC19, BRC14, BSRK21, BDF+22, BGN+22, BlDL13, BW14, BS17a, BBMS14, BSF22, BERHE19, CAS21, CLS19b, CLS20, Cim18a, CTM22a, Coh20, CELR18, CMS21, DWS21, DSW14, DSBS+18, DMR19a, Dir19, Dus14, EHA22, EZR+22, Ext15, ES18, FGHM17, FPD+21, FS20, GMH21, GTMP14, GHJ21, GHJ22, GBE+18, GZ18, GB22, GKK17, GGS19, GB21, GKR21, GAF18, GL91, Gya21, HS20, HSS+20, HZ21, Han13, HJHBG22, HSY+21, Ibr17, IST19, IM21, JYKA19, JW18, JSV16, JLLK23, KM20, KL18a, Kyla22, KKJC+16, Kol22, KK21, Koo18, KL18b, KO22, Ksh22, KJP22, KT18, KKS+17d, LS21, LL18], Bitcoin [LS20, LBHS18, Leo20, LLC+20, LLWH21, LPS+20a, LLYL19, LL+21a, LLL+21b, LZZ21, LPS20b, LX20, LZZ+22, MG16, MF19, MS22, MPC+23, Mez19, MAAW+22, MB17b, NSB19, NTRK22, NBP+21, NVWF14, OAF22, OTS+21, PCH19, PASA22, PMP19, Per22, PPW+15, RS21a, RRF22, RSV15, RC19, RH11b, SCN+22, SG1, SKG22, Sat18, Sen22, wScCe21, SY22, SM22, Six17, So19, SA20, SGK21, SS20, SS19, SYH22a, SYH22b, SYX23, Tdw+22, TNJJ22, TB17, TSHI22, US23, VLF21, VFV17a, WDLL19, WWQ+18, WGL19, WCY19, WYZ+20, WlW22, WPC+22, WTW+23, WKD22, WA15a, WKEM20, WPXZ20, YF22, YCP+21, ZLMR19, ZWLS18, ZL19, ZZH21, ZLL+18, ZZS+20, ZKU+23, ZSBG+22, ADZ23, AAGA19, Bre17, Cal21, CA21, Cha14, Cra17, DTK20, FBGMPS23, GWL20, GGS20, Gon17, Hol18, IKC21,
SBRS16, SZ14, Sha17, SGF+17, Shi16, Sid14, SCAA13, Sir16a, Sir16b, Six17a, Six17b, Six17d, Six17c, Six17h, Six17f, Six17i, Six17j, SLY15, Smi18, SPB17, SZ13, SZ15, SZ17, SZ18, Son14, Son16b, SKG12, SKG13, Sou13, SMZ14, Ste17, Swa15a, SVS18, TFG17, TT16, TTC16, Tay13, Tay17, TD17b, TOM17, Tre22, TS16, Un14, Und16, Ünv21, UJ16, Uri17, Urq17, VR15, VG17, Van14a, VCKL17, Van14b, VGG15, VTM14, VM15, VBC+17, Vas17, Vel16, VTL17, VFV17b].


BitConduite [KFBI22]. BitConeView [BD+15]. BitExTract [YSZ+19]. BitFlow [HGDD20]. BitIodine [SMZ14]. bitstrings [HS97]. Bitter [BBSU12]. bivariate [PCP20]. BIX [Muf16]. Blockchain [vdHEM+17]. blacklist [WLS22]. blamed [Ano18k]. Blind [Cha83, BTS+21, WZQ+17]. Blindcoin [VR15]. Blinded [VR15]. Blindly [HBG16]. Block [BS16, BR17, BM20, CKWN16, Dim19, HS19a, MAAAW+22, NSB19, OAB+17, PZZ+20, SPB17, TSL+17, YLZ20a, ZP17a, CZX+21, GS20b, GKH17, GPM18, HS20, Ler14a, PB17, WDLY+19, ZWL22]. block-chains [Ler14a]. Block-Withholding [SPB17]. BlockA [CHL19]. BlockAudit [ASM19]. BLOCKBENCH [DWC+17]. Blockchain [ACM17b, AK17, ADQH22, ATZ+21, ABR17, AKP17, AKP18, ASSK21, ACA+19, AMGBK22, AP20, AMEF21, ALGK19, AGK22a, ACW17, AH19, AS18, AIM19, ARBK17, AAJ21, AA20, ASK+21, ARL20, Ale18a, Ale18b, AvM18, AAC+19b, Ali19, AAAO20, AVA21, Alz19, AAAKJ22, Ami21, ABL18b, Ano18c, Ano19c, Ano21b, Ano21e, AGT+22, AAD+21, ARK20, ATD17, AMVA17, AHWB20, ACC+17, AC17, ARL19, Bai19, Ban18, Ban19, BK22, BÀBD17, BGM20, BT18a, BLPB17, BART17, Be18, Bee18, BVC22, Be18, BG17, B19, BR17, BAJ20, BD19, BDP17a, Ber17, BLSD17, BKS19, BSV17, BK17a, BK18, BPT+22, BTS+21, Bhe17a, Big20, BL22, BSLM20, Blo18, BCM16, BSF22, BS20, BAR21, BKM+17, BATR20, BC16a, BO17, BLKD20, Bri21, Brü17, BFS17, BLS18, BLNN17a, BLNN17b, But19, Cae15, CSZ+21, Cal22].
DMSCA20, DTM20, DCZ+21, DDPS22, DMH18b, DMHI18c, DMHI18d, DMHI18h, DMH18k, DMR17b, Di 17, DNZ+19, DT18, DSC21, DPS+21, Doz18, Drei17b, Drei17m, Drei17p, Dre17x, DF17b, Du21, DXR+17, DP18, DF17a, DAV20, ET17, EHA22, ESP22, ESLB20, EZ17, EZ18, Esc18, Eti19, EGSv15, Eya17, EN19, Fai17, FNP17, FYZ+21, FZG+22, FAC22, FBHS19, Fot17, FRSU17, FS20, Fug19, GPPB+21, Gao17, Gar17, GANAHH17, GBDP17, GBSAS17.

Blockchain
[MGDA+21, GSF+20, GLD+18, Gen17, Ger16, GR17, GCD16, God15, GCH+22, GSWV20, Gos17, Gou19, GFW+21, GL16, Hal18, Hal21, bAHRAK17, bAHRAK18, HL16, HJS+21, HM20, HSY+21, HFP+22, HBG16, HHK18, HJPS16, HS17b, HS17a, HS17c, HS17d, HS18b, HS18f, HS18g, HS18h, HS18i, HWCL17, HP17, HP18, HH22, HV20, HTCW17, HTCW18, HA21, HLC17c, HLC19, HWW+20, HHO+21, HSSX+21, HW16, HS19b, Hu17, Hur16, HM19, HP19, HWJ22, HR17, IPSP17, IGRS16, IK19, JB17a, JB17b, JB18a, JB18b, JMK17, JYTW21, JL17, Jas18, JJFC22, JBJ+19, JCG+22, JGL+20, JHb22, JWNS19, Joh18, JJ21, Kab17, KDS+20, KBBT20, Kadi18, KFB+17, KGA+22, Kan20, KTC21, KT22, KPP+20, Kar16, KCA18, KRK21, KK17a, KG17, KAP20, KAS+22, KTA+20, KKKT16, KJ17, KJ18, KK20a, KXS21, KLZ+21, Kla19].

Blockchain [KET+17, KUEE17, KUEE18, Koe17, KVP21, KAKC20, KOn20, KFR18, Kri19, Ksh17a, Ksh17b, Ksh18a, KV18, Ksh20, Ksh21, Kue18, KVL19, KFTS17, KGTK12, Kuz19b, Kuki17, LLH+20, Las17, Lau17, LCSR21, L116, L117a, LMWL17, LM20, LLHW20, LQYG19, LMH16, LN17, LMR17, LLW17, LZY+17, LABK17, LWY+19, LWQ+21, LWW+21, LFZ+21, LST+17, LK17, LGCD22, Lim18, LSM17, LHZ+21, LP17b, LPW17a, LP17c, LP18a, LPW18, LP18b, Liu16, Liu19, LHO+20, LLP+20b, LZZ21, LDY+22, LTS+22, LWL+22b, LPS20b, LGGB+21, LX17, LX20, LSZ+21, Lus18, Lus17, MHL20, MZLW20, MXW22, MMR16, Mahr18, Mai18, MKY+21, Mal18, ME17, MHH+16, MSC15, MCLH19, MCS+21, MZWX21, Mer19, MCJ17, MHW16, MKL+22, MK15, Mis17, MMR+21, Moh19, MF+21, MRR+20, Mor17a, Mor17b, Mor17f, Mor17d, Mor17c, Mor17e, Mor17i, MZ19, MG17, MGDE17].

Blockchain [MGDAE18, NRP+20, NNG19, Nar19, NPG+22, NGS19, NSNF17, NPDS20, NT21, Nia19, aNOE17, NGHS17, NML19, NYZ+20, NCS17, Not19, OOI19, OOF+17, OA17, Òn16, ÒJ16, ÒEO16, ÒEO17, ÖY17, PPR+20, PK19, PDJ22, Pan18, PSS17, PS17, PTPR17, PTTR18, PG+S+21, PZZ+20, Pec17a, PL16, PS16, Per17, PB17, PP16, PYC21, PII16, PRSS22, PS18, PK22, PPM217, Pou20, PRO+18, PSM22, QLML17, QUG+23, RGB20, Raj18, Raz19, RSGA+21, RC16, ROH16, RKT19, RFM+18, RBB19, Rin18, RS17, RBL+17, dSR21, RE18, Rou18, RS21b, RDL+20, RKY+20, SP+17, SM17, SD16a, SDT17, SLS20, SPB+22, STG+20, SBA21, Sch19a, Sch19b, Scr18, S17a, S18b, S18c, SG19, SBH17, SAS+21, SYK17, SJ20, SJ21, SJ22, S21, SD16b, SFYB21, SW21, SJZ19, SWY+21, Shi19, Shu17].

Blockchain [Shu19, SW17, SFMC21, SL18, SV19, SRP20, SNKG20, SPZ+20, SC20, SL20, Smo18, Son18, SCZ+21, SJS21, SGDT19, SZJ17, Str18, SSS19, SZM22, Suk19, SYZ16, SYL17, SXZ+21, Sup16, S17b, Sve17, Swa16, S1618, Sve16, Tac17, TADS20, Tam19, TSY+21, TPE20, TT16, TTC16, TT19, TNM17, THF17, TS20, TODM19, TSL+17, TFH21, Tne21, TBY17, TMTB19, Und16, VBST21, Via16, VSE21, VMM17, VFS+19, Vuk16, Wad18, WHI+21, Wal18, WDSL17, WLXC17, WX11, WCL17, WMD+20, WLZ20, WU17, WY20, XY20, ZGL17, ZMS17].
YS21, YP21, YZL22, Yue20, ZCJ+21, ZSM22, ZW17, ZWS+20, ZWX20a, ZTSS20, ZWH+20, ZLH+20, ZZW+21, ZDM+21, ZNX+21, ZZB+22, ZGR+22, ZLS+22, ZBF22, ZFY16, ZFY17, ZWX+20b, ZWC21, ZWX+19a, ZYW+19b, ZLIJW20, ZSLY20, ZZ16, ZWGC19, ZGZ21, dAdSM+22, dSi17a, AKA+22, CHL19, DKJ17, ACKJ22, AAC+19a, Ano16b, BP17b, BLMQ19, DRS22, DM20, Dim20, Dix17, DKJG19, ELFCFL20, GH17, KFR17, LP20, LP17a, LPW17b, MAAN19, MBB+20, McC18, PK21, RKP19, Ser21, Sto17, Swa15b, Uli16, VDG19, YNS16, ZSL21, ZKMN21.

blockchain-adaptive [AAGX+22].

Blockchain-aided
[SZM22, AC19, BKV22, Sko19].

Blockchain-as-a-Service [Yew18].

Blockchain-assisted [ARL20].

Blockchain-Based [AVA21, ABL18b, BL22, Bri21, CGLR19, CMT+21, DFKU20, FZG+22, GSF+20, HM19, HRF17, KET+17, KUEE17, KUEE18, Ksh20, Ksh21, LWY+19, LLP+20b, LX17, NPG+22, RSGA+21, RBA19, RBL+17, Ses18, SW21, Shi19, SL20, SGD19, WMG+21, WLSZ17, XAZ17, XAZ18, XWL+19, YW18, YMYH21, ZY21, ZGY+21, ASK+21, BK22, BAJ20, BLSD17, BPT+22, CLT+20, CIA+19, CAA+22, CJW17, CFM+22, CLXW22, DMSCA20, DDPS22, DSC21, ESP22, HFP+22, HAZ21, HLC19, HSX+21, HS19b, JMK17, JGL+20, KBT20, KGA+22, KRK21, LL16, LL17a, LM20, LMH16, IWQ+21, LST+17, LGCy22, LHZ+21, LHO+20, LSS+21, MHL20, NSN17, NT21, ÖY17, RGB20, RS21b, SPB+22, SBHD17, SAS+21, SJB21, SJB22, SWY+21, SSSJ19, SYZ16, TPE20, TMTB19, VBST21, VMMA17, WMD+20, WCX21, WLS22, XWW17, XJB+17, YKJK21, YCX18, YLZ+20b, ZYL22, ZYW+21, ZLW19, AHS21, AH20, AZD22].

blockchain-based [BYR+20, BAS+22, CXWY21, FSY+19, FWP21, FLL+22, GLC+22, GAdFGMA21, HHBS18, HCB+22, HLF+21, HYLY19, HLP+21, HZX+20, IDF+19, JLX+19, KOM+20, KOS+21, KOM+22, KKK+21, KAK21, KUE17, Kra15, Kra16a, LLH21, LLFC21, Lev17, LLCH21, LWA21, LGL+22, LH+18, LQZ+20, MZA+20, Mea19, MNB+17, MGN+22, MyPLK22, PRHR21, PCC22, QHNL21, RSH22, RSJP19, Sar21, SM+20, SLG+21, Sub18, TLS+21, WHA+20, WHY+21, WLL21, WLC+22a, WMHL21, XZL+22, XLL+19, XCZ+21, XLL+21, XZZ21, YZL+19, YLM21, YWX+22, YL20b, ZCJ+21, ZSM22, ZWGC19, dAdSM+22, ACKJ22, Dim20, RKP19, ZSL21].

Blockchain-Driven
[HSHB17b, HSS17a, HSS17d, HSS18f, HSS18e, HSS18h, TDS+22a].

Blockchain-Empowered
[HWCL17, CSKP21, IWL+21, TSY+21].

Blockchain-Enabled
[AAA020, DCZ+21, Du21, KV18, Las17, LQYG19, LN17, MZLW20, BM+17, CMR+21, CGC21, FYZ+21, HLI21, HH22, LTB+22, MXW22, NML19, QUG+23, SRP20, GDKJ22, KKT+22, MRG18, MLT+20, MFE+20, PC+21, WQGX22, YPDC20, ZWX20a, ZZ+21, ZGR+22, ZBF22].

blockchain-enhanced [HNL+20].

Blockchain-IoT [CTNS21, ANMM22].

Blockchain-LI [YNS16].

Blockchain-native [MK+22].

Blockchain-Ökosysteme [Sto17].

Blockchain-oriented
[IPSP17, PPM17, ICGB21].

Blockchain-Powered
[QFLM17, AMME21].

Blockchain-supported [BAR21].

Blockchain-Technologie [DF17b, DF17a, HP17, HP18, TMM17, BP17b].

BlockchainDB [EHBA+19].

Blockchained
[AJA+22, Le16, LTMW19].

Blockchains
[ADA17, AV22, BNMM17, BLBS17, BDP17b, BS17b, BS18, Bog17, BTvdH20, Bys19,
Capacity [KJ17, KJ18], Capital [DMH18, McL13, PF18], Capitalism [Bhe17b, Bhe17e, DdFP18], Capitalizations [Ano18f], Capture [WXH21], Car [ANMM22], Car-sharing [ANMM22], Carbon [CE12, GB22], card [Per22], Care [BSLM20, Chu15, DMH18c, LP18c, LP18d], Careers [Nor17b, Per20], carrier [LML+19], Case [BATB20, CMT+21, FRSU17, Fug19, HS16d, HSB18i, KPP+20, LX17, LN15, LSP+15, RRD17, Str18, WXH21, WKEM20, Yew18, ANMM22, CSLD17, GRU22, HS20, KOJ+20, XL+19, YP21], Cases [CDZ+20, Nav17, SG19, Raj18], Cash [Ano17a, KL18a, MGGR13, OO91, WvB14, Bac97, Bac01, BB15, HGDD20, Nak08a, Nak08b, Pan96, Pec12, WLS17], cash-flow [HGDD20], casino [Ano21b], Casinos [Mat13, Pia16], Categorization [GDP+17], Catena [TD17b], Caterpillar [LPGBD+19], Causality [H221, Unv21], Causality-in-Quantiles [H221], CBDCs [JJ21], CBT [GANAHHJ17], CCS’17 [ACM17a], CDN [AC19], Cecoin [QHW+20], cellular [WL+21], cellular-connected [WL+21], censors [RS21a], Censorship [RC19], Central [CMS21, Nis16a, Son14], centralisation [LPS+20a], Centralised [Lei16], centralization [BS15], Centralized [KA20, WSZN18], Centrally [LDH17], Centric [ACC+17, Hu17, LQZ+20, NAR22a, NAR22b], CEO [Sid14], Certificate [KKM19, XZK+17, AHSZ21, CCMN17, LCB+20], Certificateless [WHW22], Certificates [LWL+22a, Mu16f, ACKJ22], Certification [KLR+17a, KLR+17b, Wey19], Certified [AFM+14, BDF+22], CertLedger [KKM19], CFO [SLS+20], Chain [Ape14, BAR21, CMT21, Con14, HSB17b, HSB17a, HSB17c, HSB17d, HSB18a, HSB18b, HSB18f, HSB18e, HSB18g, HSB18h, HSB18i, Kra16b, Kri19, Ksh21, Nia19, RKT19, WCL17, Wu17, XRS+19, XYZ+21, YPFY21, Che18, DF17b, DAV20, GS20b, How20, JJS, KOM+22, MFE+20, NNGV19, PB17, PC21, STN22, SCZ+21, SYCC21, XZZ21, XZXP21, FY19], Chaining [ET17], Chains [GKL17, JKS+17, KJ17, WDLL19, Av18, AHC+21, Leri14a, PC+21, SZ13], Chaintegrity [ZWX20a], Challenge [DAAY22, Tzi18, LWA21, MLY20], challenge-based [LWA21, MLY20], Challenges [ACM17c, ASSK21, AAAKJ22, BG17, Big20, BMS+15, CDZ+20, CTA+20, DCB+21, EBD+20, HKH18, HJ15, HJP16, KCI21, KAKC20, KGK20, LJD21, MWV+18, Mul14a, Nav17, PS17, PPM17, PSGM22, RDDL17, SK17, Van14h, ZMKR22, ZHW+22, dC+14, ACA+19, AS+21, AKT21, And18, CWCC21, CXY21, FF21, GGK20, HYL21, JCG+21, KS18, MKY+21, MAAN19, MCLH19, PC21, SPZ+20, SJSY21, URC19, VDVC21, ZSLY20], challenging [VC15a, VC15b], Chancen [Kar14, San14a], Change [FWB15, KRI17, KYLA17, Mor17c, Kel15, Pec17b], changing [Pal18, TTT+16, TT+16], Channel [AGGM16, BDW17, EKK+17, MMSK+17, RLT17, TWFO20, ZY21, ECA+21, ZLL+19], Channels [ABF+16, DW15, GM17, Kra16b, NT21], Chaos [LB18], character [MLT20], Characteristics [KLD+20, WLX+21, WKD22, ZKU+23], Characterizing [CLT+21, GCL16, IST19, MPJ+13, MPJ+16], charging [HZLA19, KUE17], charity [SPB+22], Charles [G.17], chart [Pec17a], CHChain [TDS+22b], check [Pal18], checking [WHY+21], Checkpointing [AV22], Checks [YWS+18], Chemotherapy [Shu17], Cheque [SV19, KBT20], China [CSZ+21, CP17a, JLX21, K.13, RS21a]
Choosing [BKP14, GˇCKG14, McK19, VCLK17]. LYZ [LR22].

cloning [KOJ]. City [De18, CSKP21, CGHC21, KAF20, PGS+21, ZWH+20]. CitySense [IPSP17, civilizations (dS17a)]. Claim [PBHM21]. Class [BW17, Classification [ATZ+21, Als23, GMH21, JFFC22, TT19, DCK21, FBGMPS23, GDA+21, SKG12, ZSGB+22], clearance [KBT220]. Clearing [SV19]. Client [BC16a, LR22, XCG+17, JLX+19].

Client-Assistance [LR22]. Clients [BK14, GˇCKG14, McK19, VCLK17]. Clinical [ACV17, BR17], clipboard [Pal18]. clipboards [Bar18], clock [FSY+19]. cloning [KOJ+20], closed [LZDA16]. closing [MF19]. Closure [MC18]. Cloud [BJ20, ECD017, HS16c, JWS19, Kue18, LQVG19, LST+17, Mal18, RSV15, RBB19, SJ20, SV16, SL18, SL20, TSL+17, WPG+22, ZH7+22, ABB+19, AGK22b, CSKP21, DSC21, GGG22, HZY+19, HZL+20, HSK+21, JO13, KGTK20, MX22, MRG18, PR21, PK22, RLG+21, SJ21, SJ21, SZLDZ22, WWZ+20, WLL+13, YCX18, YZL22, YLZ+20b, ZLY22, ZWGC19, ESP22].

Cloud-Based [HS16c]. Cloud/Fog [JW159]. Clouds [KZVT17, MKGT16a, MKGT16b, HH22, TVK+20]. Clustering [EZ17, EZ18, EY17, FOA16, NH17, WTW+23, HLC+17b, Sal18, Urq17]. CMOs [KPP+20]. CNN [CA21]. CNN-based [CA21]. Co [Blo18, GR17, BBBBB15].

Coalitions [MKKS14, MKKS15]. Code [FB17b, KOJ+20, SCQA13, DW18, Ger16].

coded [ZWL22]. Codes [LSO+15, Pie20].

Coding [RV21]. Coefficient [WPXZ20].

Coercion [Dim20]. Coercion-free [Dim20].

Coexist [GP17a]. Coffee [ECL16].

Cognitive [SKA+20, Che18]. Cohort [LZZ21].

Coin [Ale18b, Dir19, IPL+18, KP19, KJGW17, RMSK14, Goo18, SYH22a, SYH22b, DFKP13, THF17].

Coinbase [Far18b, GCD16, KRL17].

Coincheck [Gal18, Nak18, WREK18, WSN18, YWW+18, YWS+18].

CoinDash [Osb18a]. CoinDesk [Sup16, Vig15].

CoinParty [ZGH+15].

Coins [Ros12, RKS15, Rao14], Coinsicure [Cim18a].

CoinShuffle [RMSK14].

CoinTerra [BH15, BHI+14].

Collaboration [NOT15, XZL+22]. Collaborations [Ch18, LSN12].

Collaborative [RBL+17, SGDT19, And18, KKK+21, LTMW19, LWA12, MLY120, MGE20].

Collapse [K.13, Sch14b]. Collateral [KT15, MB17a], collected [Cha14].

Collection [AAD+21, LDY+22, CJW17, ICGB21].

Collective [IM16, KPP+20, KKJG+16].

Collisions [Lar13], Collision [YTL19].

colony [DX21]. Colored [Ros12].

Column [Wel18]. Combat [OOF+17, RAH+15, CW20].

Combatting [DN393]. combination [HSC21].

Combinatorial [GZ18, MXW22].

Combinatorial-Probabilistic [GZ18].

Combining [Raz19].

ComboJack [Bar18, Pal18].

ComChains [VG20]. come [Ker18b], Coming [Tre22], Comments [Sar21].

Commerce [DCZ+21, GWF+21, Pan96, SXZ+21, XLM+17, ZHY+21].

Commercial [Ger16].

Commissioning [HS16c]. commit [EA21], CommitCoin [CE12].

commitment [CS15, ZAE20].

Communication
Alz19, BLSD17, FDT17, FF17, LZZ+22, WCL17, vdHEM+17, AR15, FA21, HZL+20, LCB+20, SWG21, VD21, YYDC21.

Communications

Compatibility

Computational
AAD22, HWCL17, SC20, Li14a, Li14b. Computationally [BLZ20]. Computations [ADM14a, ADMM14, KB14, vdHKZ14, ADMM16, Bee16, HCW+18].

Compute
ACM17a, LTKS15, Son16a, Wör16, vO20. computers [Goo18, Hol18]. Computing [AAJ21, Bee18, BS20, BATB20, DMH18g, Her17, JWNS19, Kol22, Kue18, LQYG19, LSH13, TMTB19, Wel18, ZHZ+22, BKV22, DSC21, EFFM21, FWP21, Fin17b, Her19, HLC19, HS19b, IFD+19, KAP20, KGS+19, L2Z21, LDLS22, LGL+22, MG+22, QL22, SLG+21, TB17, WQGX22, XCZ+21, ZZW+21, ZSL21]. computing-based [KAP20]. computing-enabled [EFFM21]. concentration [LP18c, LP18d]. Concept [HSB17a, HSB18e, Shu17, SDK+17, AC19, wScCcS21]. Concepts [KKC20, BGP21].

Conceptual [PRS22]. concern [Ole18]. concerned [Far18b]. concerns [CXY21].

Concluding [Gev16]. Conclusion [ACM17a, ACM17c, GP17b, Ker12, OF15, Sad13, IKY05, Jue94].


Conflict [NOT15, AAC+19]. Conflict-Resolution Conflict [NOT15]. Conflicts [LMLA17].

Congestion [KJ17, KJ18, HVM+18]. Congresional [Dus14]. CONIKS [Bon16b, MBB+15]. Connected [DAAY22, RSJ21, WLN+21]. connection [ZWS+20]. Connections [HBJB14]. Connectivity [CGFH16]. conscience [Osb18a]. Consensus [BLP17, BDF+22, CV21, CQ+21, CCA+20, Coe20b, Cor19, JBH+22, JSK+17, Kwo14, LLH+20, LFZ+21, LPS20b, LTKS15, ML14, MHWK16, PS18, Poe14, QXC+21, RZJ20, SYB14, SXZ+21, XCW+22, XLM+17, XNC21, ZP17a, vM18,
Consumption [AMEF21]. consent [KK20b].

Constant-Effort [Coe08]. Constant-Deposit [BZ17]. Consortium [LPS20b, RST11]. Consistent [MZWX21, Sal18, Sir16a].

Contention [MPC17]. Construction [Gim16].


Contest [KS17, Ch16]. Contention [MPC+23]. Contest [Dim17].

Context [DSP+21, EZR+22, KLL+15, Nia19, KO22]. Contingent [CGGN17]. continue [Ker18b].

Continuous [GMH21, YMY21, DB16, SJ21]. Contra [SKNM21]. Contra— [SKNM21]. Contract [AB17, ABBS18, BCM16, But13b, CS20, CXL+22, GLG19, HLC17c, JS20, LP20, Pia16, Pie20, ROH16, Swa16, THF17, XJY17, XSC+17, CXY21, FBL+20, HLC19, KF19, LCL+22, LML+19, LTB+22, LWZ+21b, LWCX21, ML20, NAR22a, NAR+22b, SJSY21, VDVC21, WM19, THF17].

Contract-based [AB17, ML20].

contracting [AAGX+22]. Contracts [ACM17b, ADM14b, ABC17, BNMH17, BD5F+16, BKT17, Blo18, BS17b, BS18, CXG+18, CLS+21, CXLG22, DGHK17, EMEHR17, Gao17, GLD+18, HBG16, IG1S16, JKS16, KPP+20, KUEE17, KUEE18, Kün16, LCO+16, Mor17j, NH16, NPS+17, PP16, RBL+17, SY22, SW17, SC20, VTL17, ZCC+16, ZHC+20, ZGY+21, AH110, Ano21d, BL1Z20, BLM22, BZK+21, DAT21, DLV+22, GRU22, Gia15, GJ1K+18, GJ1K+20, GLTS22, HY1L21, KOJ+20, Lev17, Liv20, LKP+21, MM1V21, OH20, PHH+20, SPZ+20, Tuml19, WZS19, WGC19, YML+22].

contractual [AAGX+22]. contribute [SYZ16]. Contributions [KTC21].

Control [BLBS17, DRM17b, DMR19b, LGGB+21, ML19, McL13, MC17, OEO16, OEO17, PRS22, TSY+21, YWJ+16, AAC+19b, AGK22b, CM1J21, DH1+22, GJ1J22, Ker18b, Kra15, Kra16a, LG1Y22, LHI+18, LQZ+20, PD22, RGB20, SJB22, SJ1Y21, ZLH+20, AAC+19a].

controllability [TDS+22a]. Controllable [ZWGC19]. Controlled [CR17].


Convolutional [FY+21, WL220]. Cooperative [LS21, LBS+15, WC21].

coordinator [VB08]. Copyright [NPG+22, Sha18]. Core [Dre17f, KAKC20, BSF22, VCLK17].

core-based [BSF22]. CORFU [MBD+12].

Corporate [Yer17]. corporations [RS21a]. Correct [KB14]. Correction [SY22a].

correctly [SAL20]. Correctness [CXG+18, Sut20].

Correlation [ZWLS18, GFLS21, VX17]. Correlations [WKD22]. Correspondence [FDP+21].

Cost [Ast16, Bac02b, CPMM21, LDH17, KW20, LML+19, SA20]. cost-effective [LML+19]. Cost-Functions [Bac02b].

cost-saving [KW20]. Costs [CPM17].

Could [CEN14, DXR+17, NH17, FS16, ASB+21, AB20, Bre17, BF20, FWP21, FZC+20, FCH21, Gra20, HWJ22, JB21, KKS+17a, Kra15, Kra16a, LZY22, LTB+19, LX21, LLL+21c, Pon20, PCM+21, PC21, Sal22, WLC+20, WSC+20, XHB+21, XBX+22, YLN+19, ZWH+20, dORM+20].
cryptojacking [Ker18b]. CryptoLocker [LZDA16]. Cryptology [CRS83, OF15].
cryptomining [Seg18]. cryptosystems [Mer80]. Crystallization [KL17, KL18b].

Cuckoo [Tro14a, Tro15b, Tro14b]. Cultural [KD16, SG21]. Cure [JZS+17]. Currencies [Ano18d, Cou14, CMS21, GKW14, JWB16, JWB17, Pas15, SPR13, TS16, ALe18b, Ano18e, Cae15, CRdK16, FCH21, HS16a, Ki15, Lai11a, LNY14, SG21, WLS17].

Currency [ACM15, Ali15, Ano12, Ano18j, Ano19b, AHWB20, BBSU12, BBH+13, Car15, DMO+19, EL14, Eva14, GH05, GKC14, GHZ+14, GANT21, Gri11, Int14, Ker18a, KN12, Lai11b, LCL17, LSH13, MY11, MCS18, Mul4b, Nav17, Pav18, Swa15a, VGI15, VM15, AF16, BHI+14, Bra15a, BOS15, CXS+17, CRdK16, Dus14, Fun22, FGHM17, FB17a, Hol15, Ker14, Lec15, Pec16, SI19, San14b, San14a, Six17c, Son16b, SK13, TFG17, TF16, U17].

cyberattack [BAR21]. Cyberattacks [Koe17]. Cybercrime [Vas17].
cybercriminal [YV17]. Cybercriminals [Esc18, Fir18].
cyberphysical [AAA20, BATB20, BLKD20].
cybersecure [Ser21]. Cybersecurity [Fug19, Ma18, DSSM+17, GAADFMA21, MRRG18, SLG+21, Gou19].

Cybertrust [Ksh18a, Ksh18b]. Cycle [SW17, Tro14a, Tro15b]. cycles [GTMP14, HDM+14, Tro14b]. Cycling [JMK17].

Cyfer [Gou19].

D&R [Li14a, Li14b]. D2D [HWWCL17, YYDC21, ZSL21]. D2D-assisted [ZSL21]. D5 [O17A]. DAC [DHH+22].
da [ZWH20]. DAG [GGPB+21, WLC+22a, XHP+21, ZWH18].

DAG-Based [GGPB+21, XHP+21, ZWH18].

Dagger [But18a]. DAGSim [ZWH18].

Daily [PPM19, MF19]. DAML [KF19].

Dance [Bhe17c]. Dandelion [FYZ+21].

Cyber-physical-Social [FYZ+21].

Cyberattack [BAR21].

cybercrime [BAR21].

[cybercriminal] [YV17].

Cybercrimes [Esc18, Fir18].

cyberphysical [AAA20, BATB20, BLKD20].
cybersecure [Ser21].

Cybersecurity [Fug19, Ma18, DSSM+17, GAADFMA21, MRRG18, SLG+21, Gou19].

Cybertrust [Ksh18a, Ksh18b]. Cycle [SW17, Tro14a, Tro15b]. cycles [GTMP14, HDM+14, Tro14b]. Cycling [JMK17].
Deployment [ECHL16, FSW14]. Deposit [BZ17]. Deposits [ADM14a, Ano18b, Bee16, YSLH17, YTLD19].

Depth [ZDP+22]. derivation [Per09].

Derivative [BKT17]. Design [AMGBK22, Ali19, AAKJK22, BK14, BLSD17, CLS19a, EGB18, Fot17, KLZ+21, LLHW20, Lin15, LLP+20b, MAQ99, RSGA+21, SK17, TKBK22, Wor16, ZTSS20, GLO+22, MÖ22, NGS+19]. Designated [WHJ17, WHJ20]. Designated-verifier [WHJ17, WHJ20]. Designed [Li14a, Li14b].

Designing [LTMW19, NST+17, Uri17, VGJ15, XLL+19]. Designs [BABD17, TBB21, ZWL22].

despite [PB17]. Destruct [CXLG22].

Detection [Con14]. det [ARK20]. d'État [MK15]. detect [KKT+22].

Detecting [AGGM16, CLS+21, WZS19, YML+22].

Detection [ALGK19, Bog17, CPL+21, DH17, JW18, KJPJ22, LZF+17, MMT16b, RRM18, RS21b, SGDT19, WWZ+22, AJA+22, CMR+21, CBST22, CEW15, HYWY22, KKK+21, KTM+21, KKT+22, LW16, LTMW19, LW21, LT3+22, MLYL20, MGE20, MMT16a, SM22, SYH22a, SYH22b, VD17, WL20, XMY+21]. detections [CZ16].

detector [LCCF21, NQ20, XGS+20].

determinants [PASA22]. Determining [JFG18, KRL17, Scr18, GB21].

Deterministic [DCK17, GS15b, WLGL19].

Deterring [KT15]. Detiled [ZWLS18].

developed [AR15]. Developer [Ano17b, Nor17b]. developers [Lee13, Per20].

Developing [Ano18g, BBH18, Ksh21, Lin18, FRSU17].

Development [AKP17, AKP18, Ant21, DSN17, HS16d, Lei16, ZGY+21, Bra15a, CXY21, wScCcs21, VDVC21].

Developments [DMH18k]. Device [LGGB+21, LH20, PK22]. Devices [HS16e, LMWL17, ÖY17, Ses18, TSY+21, FMR+19, HYLY19, HCW+18, LL16, LL17a, WLC+22a]. DEVp2p [HZT+22].

dezentrale [Six17e]. Dhab [ACM17a, ACM17b, ACM17d]. diabetes [CMR+21].


Dietcoin [FMR+19]. Difference [Nis16b, YS21]. Differences [Mul14c].


Digital [AKP18, ACV17, BBM+18, Cha81, CMS21, EL14, Gev16, GK14, GANT21, Gri11, KL18a, KT15, KKS14, LPSZ18, Mer88, MK15, Mor17h, Nav17, OZ16, Pav18, Pop15, Pop16b, RBB19, Rin18, Sc10, SK20, Smo18, Spr13, Sve16, TS16, Vel16, WWQ+18, Wer18, Zei16, Bar18, BHS93, BGPW16, CJW17, CRdK16, DGP20, Fan22, GTMP14, Gon17, Goo18, HS91, HSL6a, HLF+21, Ker14, KH16, KSLC21, Lee15, LLCH21, Oh12, Pan96, RBM17, RSJP19, S119, TF16, Uri17, VC15a, VC15b, XW21, YL20a, AKP17].

digitalen [Ker14]. digitaler [RBM17].

Digitalization [Sch19b]. Dilemma [Eya15].

Dilemmas [KKS+17d, KKS+17c].

dimension [CLS19b, CLS20]. dimensional [GFLS21]. Dimensionality [M21].

Dimensions [JB18b, BHM21, Hah18].

DiPETrans [BAP22]. Diplomacy [Ber17].

Directed [RJK+17]. direction [IKC21, MF19].

directional [CTGJ22].

Directions [ASS2K1, DH76, HHK18, KAKC20, PPM17, Son16a, DPN+22, JGC+21, KGTK20, PDJ22, URC19].

Diritto [MS15]. Disambiguating [Dre17e].

Disaster [Pan18]. disclosure [BEM+20].

Discontinuity [TSC18].

Discourage [MKKS14, MKKS15].

Discovering [DSBPS+18, Dre17f, EZ17, EY18, TSC18].

Discovery [ACW17, LWZ+21a, LTB+22, MBT19].

discrete [LLHW21]. discrete-event
[LLWH21]. Discuss [FF17, WXH21].
Discussion [Ali15, HSB17c, HSB18g].
Discussions [WXH21]. Disease [CTM22a].
Dishonest [AKWV19]. Disincentivize [ES14a].
Disk [GL00]. Disparate [LGK14a].
Dispensers [MTR+21]. Dispute [BT18a].
Disputes [ABL18b]. Disruption [BBB15, DTM20].
Disruptive [DT18, FRSU17, GR17]. Disruptive [FRSU17].
Dissecting [BCCS20, MPC+23, NB+21]. Distance [OTS+21, GLFS21].
Distilling [Olu21]. Distributed [AMEF21, ALPBT17, AKGN18, Ant21, ABBM17, Br"u17, BZK+21, CZJ+17, EGB18, ECD17, Eti19, EG17, HL16, HLC+17a, Her17, Hul17, JCHSR16, KLD20, KMOD17, Koj22, KYV19, LDWS17, Lau11b, LS17, LLW17, LW1+22a, LSP+15, MZLW20, MGM+17, Mel18, MGGR13, NST+17, Poe14, RV21, RKT22, RSJ21, RBB19, RLT17, SD16b, SW21, SGLT19, Str18, SPS+21, TD17a, Tre21, VPC20, VRK21, Wat17, Wei18, Wu17, XNC21, YLZ20a, ZZQ’16, BAPS22, BCK+21, BS15, BANT20, BERHE19, CK16, CM19, CHL19, FFL21, FD20a, HS20, Her19, KF19, KTM+21, KKT+22, LZY22, LCW2X1, MKS+19, MCP20, MMV21, PLSS17, PK22, SK20, XBS+22, ZWH18, dORM+20].
Distributing [Dre17g]. Distribution [NPG+22, Yeo15, DAV1, KKL1, ZLT+18].
Divide [Bra13]. Divisors [DDX17], [DL’T17, Sp017]. DLoc [ECD17]. DLT [FFL21, Lim18]. DLT/Blockchain [Lim18].
DNA [YS21]. DNS [HSGY20]. Do [ALB121, CXLG22, Pec17a, SID141, WXH21, Cal21, Kug18]. Docker [XXB+17].
doctrinal [HA15]. doctrinarias [HA15]. Document [PPR+20, HS91].
Documentation [Ano17b]. Documenting [Dre17]. Does [HSB17c, HSB18g, SGF+17, Ste17, Ano17d, Fai17, RE18]. Dollar [HJHBG22, ZKU+23]. Domain [JB18a, WXH21, LZZ+20, PK21, RBS17, SMHK21, TDS+22a, YS20, YS21, YP21].
Don’t [JBL+19, MHH+16, Pal18]. doors [LZDA16]. Doping [PR22].
Double [AMEF21, DNY17, JW18, KAC12, KAR+15, LZC+17, NT21, âNOE17, PSDSNH19, PR16, ZL19, DB16, MX22, RW21, WWZ+21, WLS22, YSLH17].
double-blockchain [RW21]. Double-Financing [âNOE17].
Double-spend [PR16]. Double-Spender [DNY17]. Double-Spending [AMEF21, DNY17, JW18, KAC12, KAR+15, LZC+17, NT21, âNOE17, PSDSNH19, PR16, ZL19, DB16, MX22, RW21, WWZ+21, WLS22, YSLH17].
Double-Spender [GANAHHJ17]. DPoS [PX21]. DPS [FF17].
DPS-Discuss [FF17]. DPSO [DRS22]. DR [WFP21]. Drain [VBC+17]. Draw [Ane18, Ole18].
Dread [RSL+14]. Dreamers [DMH18a]. Dreams [Eya17]. Dredas [FBL+20]. Drive [BK17a, BK18, KPW19, Seg18].
Drive-by [Seg18]. Driven [DCZ+21, HS17b, HS17a, HS17d, HS18f, HS18e, HS18h, JBH+22, DRM18, LWW+21, LTW+21, TDS+22a, TDS+22b, WQGX22, ZDM+21].
Drivers [PPZ+20, GDA+21, KVP21].
Dubai [Nor17a]. Dubious [Roo18]. Due [Ami16, Mcl13]. dumber [Ito18]. dummies [Ant16], d’une [San14b].
Duplica [DW15]. Duplication [KKS+17b].
during [BSKR21, CTM22a, Osb18a]. Dutch

Dynamical [KJ17, KJ18]. Dynamic [BAK+22, JKH+22, KTA+20, Lin21, RV21, WMD+21, WLW22, YMHY21, ZhH21, AB20, Bar17, DB16, KUE17, LDLS22, NAR22a, Sal22]. Dynamically [KJ17, KJ18]. Dynamics [EDS15, LS20, Sen22, Bla18, GKK16, GK17, Gon17, VLAF21].

E-Health [BJ20, SMM+20, ZYL22]. E-Health-Care [BSLM20]. E-Health-Care [BSLM20]. E-Health-Care [BSLM20]. E-Health-Care [BSLM20]. E-Health-Care [BSLM20].

Eckiden [ZHC+20]. Ecosphere [Six17a, Six17f]. Ecosystem [Cus14a, GHMO17, GDP+17, Ibr17, Kab17, Son18, VTM14, Cus14b, DMH18b, HV+18, HA21, LGCY21, MBB13b, MBB13a, PCHD19, dSR21, YV17].


Effing [MSC15]. Effort [Coe08]. Efforts [Nar19].

Egalitarian [Mai16]. eHealth [DXR+17, HSX+21, HP19, SJD17]. eHealthcare [SHA+20]. EHR [LCL+22].

EHRs [HSX+21]. Eigentumsrechten [HP17, HP18]. Einordnung [SKG12].

Einsatz [DF17a, DF17b]. Einsteiger [Ael18b]. EIP [Wo04]. EIP-150 [Wo04].

Ekiden [ZHC+20]. Elapsed [Cor19].
Elastic [HYP+22, LML+19, Sch+14b].
ElearnChain [AC21]. Election [MG17].
Electric [KMAJ21, KUE17, ZW15, ZW17]. electricity [Fai17].
Electronic [ACM17a, Ano17a, Cha17, Hut17, Ksh18a, MY11, Nar19, O091, PPR+20, Shu19, CLC+19, KRK21, Nako8a, Pan96, SHL+20, Sub18, TPE20, VBST21, YLM21, YWX+22, ZGZ21].
Emerging [ACW17, Bai19, But19, Du21, KD16, TDM19, HS20, Son16b]. Empirical [JL17, KAK21, MC13, PPW+19, VTM14, Vei16, WLX17, WPC+22, CF15, CAMS20, DCB+21, MB17b, BBBB15, NPB+21].
Empower [DXR+17]. Empowered [ACW17, CSDK21, IWL+21, TSY+21, WLZ20]. Empowering [LL+21e]. Enable [QXC+21].
Enabled [AAA020, BD19, DCZ+21, Du21, KV18, Las17, LQVG19, LNI17, MZLW20, Mal18, SS17b, XRS+19, BKV22, BM+19, CJA+19, CRM+21, CGC21, DMH18b, EFFM21, FYZ+21, GLW+20, GDKJ22, Ha121, HH22, HTLY21, ICBG21, JYT21, JAK19, KKT+22, LT+22, MXW22, MRG18, MBK+21, MLTT20, MFET+20, NVE+21, NML19, PC+21, QUG+23, SRP20, WQGX22, WLZ20, WLN+21, YPDC20, ZWX20a, ZZW+21, ZGR+22, ZBF22].
Enabler [CBWF17, SS17a, CDS+19].
Enabling [ABL18b, GRM22, HGD20, IK19, LLJ21, Nar19, Oh16, WZW+20, XSC+17].
Enactments [LSN21]. Encrypted [AAG17, DCK17, FYK+17, GWF+21, DCK21].
Encryption [DDX17, FYK+17, HSS+20, LLW17, Mer88, SZM22, BILN21, CLC+19, HH22, LWQ+21, MBK+21, TGC+21]. End [BMS17, BMS19, GWX+21, MB15, PR21, Rot13, Rot17, PK21]. End-to-End [BMS19, BMS17, GWX+21, PR21, PK21].
Enforcement [KT18, ME17, Tzi18, WBK+17]. Enforcing [Zei16]. engine [LPGBD+19, SSSJ19, WDL+18].
Engineering [CS20, CMM+22, Fra14, JFJC22, LP20, Nia19, Not19, PPMT17, SL20, Sve17, TDM19, Bar16, CLS19b, CLS20, LTW+21].
EngraveChain [SW21]. Enhance [SOA17]. Enhanced [BM20, CC16, KAS+22, LST+17, XSY17, BK22, HZL+20, HTLY21, SZILZ22, XWY+21]. Enhancements [CCA+20].
Enhancing [BBGP19, CP17b, KKJG21, XSY17]. Engraving [ES14b, GLD+19]. Ensure [NS17a, enormous [Fai17].
Enough [ES14b, GLD+18, ES18].
Ensemble [JFJC22, LPSP20]. Ensuring [A0121, ShL+20]. entail [Cal17].
[HSY+21, HWW+20]. **EPBC** [XCG+17]. **EPR** [PLSS17]. **Equihash** [BK17b]. **Equilibrium** [WdLY+19]. **Equities** [HJHBG22]. **equity** [How20, ZZ16]. **Equivocation** [RKS15, TD17b]. **era** [dS17a]. **Erasing** [FBHS19]. **Erratum** [ANO+18g, ZFY17, ZDL7b]. **Errors** [JS20]. **erste** [SKG12]. **escalation** [FTS+20]. **Escrow** [WLY17]. **ESORICS** [GANAHJJ17]. espoused [SG21]. **Essays** [Kha19, Rec19]. estimated [Nic17]. **Estimating** [Bon14a]. estimation [Kat17, YV17]. **ETH** [OsB18a]. **Ether** [Cal21, WKD22]. **Ethereum** [AGK22a, ABB18, ABC17, BCCS20, BKT17, BCM16, Bon16b, BO17, But13b, CCMN17, CPNX20, CLZ+20, CXY21, CPL+21, CLS+21, CXL+22, CXLG22, Dan17b, DM18g, DM18m, Fa19, FD20b, GBE+18, GJ+18, GLTS22, HY+21, Hir17, HZ+22, IM21, JCHSR16, JS20, KSA22, KLM17, KOJ+20, LHTS20, LDM+21, LTB+22, LPGBD+19, LWZ+21b, MPC+23, MB17a, ML20, NPS+17, OHJ20, OAS+21, Pie20, Six17g, SOA+21, TKBK22, WLW+19, WZS19, WOo14, WPXZ20, WWZ+22, XGS+20, YML+22, ZWW+17, ZT+21]. **Ethereum-based** [LDM+21, ZT+21]. **EtherQL** [LZY+17]. **Ethics** [AM15, BKS19, UJ16]. **EthIKS** [Bon16b]. **EthReview** [ZTJ+21]. **EU** [But19]. **Eurasia** [ACM17c]. **Euro** [ZKU+23]. **Euro/US** [ZKU+23]. **EUROCRYPT** [OF15]. **Europe** [Br21, Ker18b]. **European** [Gim16, LD17]. **EV** [HZL19]. **Evaluating** [AKR+13, JLX21, YCP+21]. **Evaluation** [ACW17, BAR21, DCK17, Doz18, FOA16, IGRS16, KUBS22, Mer19, Sal18, YPFY21, Ano21d, DCB+21, LL21, MOM22, WLW+19, WZ21]. evaluations [HGDD20]. **Evasion** [Nar19]. **Even** [Ler14a, VM15]. **Event** [Hul17, Tae17, LLIWH21]. **Event-based** [Hul17]. **Events** [LX20, TADS20, RGSXHGC21]. eventual [Sir16a]. **ever** [Cim19, Fa17]. **Every** [Kan20, RDL+20]. **Everyone** [GH17]. **Everything** [LSN21, Far18a, SNK20]. everywhere [Laz15]. **Evidence** [DVRM16, GB22, KYLA22, RM22, WWQ+18, YS21, ZHH21, ALB21, FGHM17, LLCH21, MB17b]. **Evil** [Kru13]. **Evolution** [FKH17, HSY+21, KBS17, Kün16, Smo18, Tay17, WL15, CPSCA20, OC16]. **Evolutionary** [ADQH22]. **EVOO** [But19]. **examination** [SCP+20]. **Examining** [But19, KCD17, VBC+17, Uni14]. **Exchange** [CC16, CGLR19, GLG19, HG15, JMM14, Joh19, MSCH15, McK19, MC13, MCS18, Nar19, RKJ+17, SY22, WXH21, Wu19, YSZ+19, ZKU+23, Abe18, BCK+21, Cim19, JFG18, MF19, SBL19, TDS+22a, WHJ17, WHJ20, Ano19a, Cim18]. **Exchanges** [FBB+15, DGSW15, Hut17, Son14, WSN18, FGHM17, K.13]. **Exchanging** [WvB14]. **Exclusive** [WREK18, MLTT20]. **Exclusively** [BdL13, CSG+18]. **Executing** [SCAA13]. **Execution** [EMEHR17, GPBDW17, SCAA13, WXR+16, BAPS22, LPGBD+19, SSSJ19]. **Executive** [WREK18]. **Existential** [RS21a]. Expected [Sid14]. **Experience** [Riz16]. **Experiences** [KJG17]. experiments [L14a, L14b]. explaining [BWZ17]. exploited [Fir18]. **Exploiting** [GRU22, MHH+16, CZX+21, DMR18]. **Exploration** [LCL17, SK17, Wey19, BB14]. **Exploratory** [Bri21]. **Exploratory** [AH19, BO17, KFBJ22, LW16, Nav17, OHJ20]. explorer [KK17b]. **Exploring** [CSLC18, EN19, KSCD16, OOF+17, SCN+22, SK15, Tre21, WL15, WTW+23, Gom16]. **Extended** [BLMR14, Hul17]. **Extending** [BLMR14, FYK+17, LPS20b, Wij16]. extension [Bak09]. **Extents** [WPXZ20]. **External** [WBB+17]. **Extra** [But19]. **Extracting** [SZM14, YSZ+19]. **Extremism**
Fabric
[BSV17, LLHW20, Lin21, MBT19, Suk19, Vuk16, Yew18, GRHS20, MOM22, BHH19].

Fabric-Based [Lin21].

Facebook [dS17a].

Facilitate [NH17].

Facilitative [KCD17].

Factors [GB21, KCD17, PZZ+17, ZSLY20, ZDL17a, ZDL17b].

Facts [EDS15, ALB21].

FaDe [CGLR19].

Failings [Wey19].

Fair [ADM14a, Ast16, BK14, BC16a, CGLR19, CGJ+17, GLG19, HWCL17, HLC17c, JMM14, MBC+17b, PS17, Pia16, QXC+21, SY22, WDLL19, YSLH17, Bee16, DSSPNAHJ20, GLL17, GLC+22, HCU+18, HLC19, LFX+20, LWQ+21, LLZY20, YSLH17].

Fair-Exchange [JMM14].

Fairness [CGJ+17, GDTP17, MSA+22, RSH22, Mö22].

Fake [DDPS22].

Fall [Son14].

falls [Lee13].

False [Han13].

Fambit [HRE17].

Far [KVL19, Goo18].

Farming [PTPR17, PTPR18].

Fast [DW15, KAČ12, Lin17, LYZ+17, LLYL19, SCAA13, SZJ17, DT20, SZ13, Uri17, YTLD19, VBO8].

fast-payment [YTLD19].

faster [CEN14, Ler14a].

faucet [MÖ22].

fault [BVCH22, BSV17, Coe20b, XZY+21, TYY+19, VG20].

fault-tolerance [TTY+19].

Fault-tolerant [BVCH22, BSV17, VG20].

FAW
[KKS+17d, KKS+17c].

FBI [Grc13, RS21a].

FC [BBMS14, BCJR15, CSN14, CMR+16, GP17b, JRB+17, Jue04, Ker12, Sad13].

Fears [HM18].

Feasibility [JCG17, SL18].

Feature [JIFC22, NTRK22, RS21a].

Feature-Rich [NTRK22].

Features [Bog17, Con16, SS19, ARL20, DÁGG20, HZT+22].

February [CMR+16, GP17b, Jue04, Ker12].

Federal [HV20, Nav17, Int14].

Federated
[FZG+22, GLC+22, Mal18, QUG+23, SFYB21, SRA+22, AJA+22, ARL20, AKT21, MRG18, PSY21, QHLN21, RSH22, SZdLZ22, UHK+21, WQGX22, ZDM+21].

Feds [Zet13].

Fee [GCD16, LSZ22].

Feed [ZCC+16].

feedback [GTMP14, MXW22].

feedback-based [MXW22].

Feeding [Fai17].

feel [SIDV14].

Fees [ARL19, Dim19, MBB20, ECA+20].

Feltan [Ano16c, SM-16].

ferenda [Kun16].

FGL [GLC+22].

fiat [G.17].

Fiction [Lin15].

Field [Alz19, MTR+21].

Fighting [SOA+21].

Fight [Tun18].

Filters [GCKG14].

Finance
[Bhe17d, Edw15, Eya17, HSB17b, HSB17c, HSB17d, HSB18a, HSB18b, HSB18f, HSB18g, HSB18h, HSB18i, HSB+22, TBY17].

Financial
[Ami16, Bai19, Cal21, DMH18l, EMEHR17, HRF17, JB17a, JMK17, Ksh20, Nor17c, Rec19, Sch19b, TSC18, WLL22, And18, GS20b, GS20a, K.13, KBT20, Lee15, Lew15, LMR17, LP18c, LP18d, RSR17, SPB+22, Six17d, VX17, WGC19, XLZ20, BBMS14, BCJR15, CSN14, CMR+16, GP17b, JRB+17, Jue04, Ker12, Sad13].

financieros [RSR17].

Financing [aNOE17].

Finanzindustrie [Six17d].

Findel [BKT17].

finding [Lar13].

Findings [BBBB15].

find [Aro12, Edw15].

Fine [RCD+19, LCZL21, LHH+18, MHL20].

Fine-grained
[RCD+19, LCZL21, LHH+18, MHL20].

fingerprint [HS19].

FinTech [WM18].

Fintechs [Sch19b].

Fire [RKS15].

FireLedger [BP20].

firms [K.13, Nor17c].

Firmware
[LMWL17, HYLY19, LL16, LL17a, YL20b].

First [BH15, BP14, DP18, LF16, Pav18, PL16, SHT17, Aaro17a, BHI+14, EBSC15, Ker18b, SKG12, WMLH21, YV17].

First-Generation [BH15].

fisheries [How20].

Fishes [ZW+17].

Fistful
[MPJ+13, MPJ+16].

fix [Lec13].

Fixed [LX21].

flame [Cae15].

flash [MBD+12].

flash-speed [MBD+12].

flaw [Duc13, Fir18].

flaws [FB17a].

Flexible
[KXSS21, WDLL19, DKJ19, LTC+19, XHST20]. Flow
[BS17a, JYKA19, YK15, HGDD20, QHN121].
flows [BDP+15]. Fluctuations
[EDS15, PPW+15, GAF18]. Fly [NVWF14].
Focus [TKW15, PCP20]. Fog
[BAS+22, BK22, BATB20, JWNS19, LWZ+21a, SNKG20, TMTB19, EFFM21, HCV+18, HLC19, IFD+19, KGs+19].
[TMTB19]. follow [RGSNWWCG21].
follow-up [RGSNWWCG21]. folly [Sch14b].

**FOO [ZLJW20]**. Food [But19, CMT+21, CTM21, KD20, PK19, Ano21c]. Footprint
[GB22, OM14]. Forecast
[PMMP19, ALB21, GS20a]. Forecasting
[Coh20, LPS20, PASA22, YK15, Ara21, AAPZ21, PCP20]. Forecasting
[Tzi18, YCP+21, KSLC21]. Forensics
[NHM16, RBB19, Wad18, KSLC21, LLCH21, RSJP19, ZLW19]. Foreseeable [ATD17].
Foreword [FD20a]. Forex [DMO+21].

Forging [Pop16a]. Fork [KLM17, KYLA22, KKS+17a, KKS+17c, LTC+19]. Fork-free
[LTC+19]. forkable [WDL+18]. Forkbase
[WDL+18]. Forks [LK17]. Form
[Ano18g, BBH18]. Formal
[BDLF+16, MSMH21, SY22, Son16a].
formalization [SPZ+20]. Formalized
[CXS+17, LN17, NML21]. Formalizing
[AKG18, Wel18]. formation [DAGK20].

Fortune [Pop17b]. forward
[MAAN19, SBA21]. Fostering [Sch19b].

**FOTB [YL20b]**. Found
[Ke16, Pop17b, YWJ+16]. Foundations
[DMH18b, Ant20, Got16, HMS17].

Founder [McK19]. Founding [EL14]. Four
[LF16]. FowlerNollVo [VFN91]. FPGA
[KXSS21, SNM17]. FPGA-Based
[KXSS21]. Fractal [DVRM16, ZKU+23].
fractality [LB18]. Fragen [BP17b].
fragment [RS21a]. Fragmentation
[Bhe17d]. Framework

[AvM18, AVA21, Ano18g, BLPB17, BBH18, Cor19, DDPS22, DWC+17, FZG+22, Gou19, HL16, KT18, Las17, LWY+19, Mal18, Nar19, \( \& \text{NOE17, PTPR17, PTTR18, RS17, SK15, } \\
\text{Sr18, Ses18, SV19, SCZ+21, Tum19, } \\
\text{TSY+21, TMTB19, WWZ+22, BAPS22, } \\
\text{BAS+22, DHH+22, FWP21, GIm16, Hal21, } \\
\text{HCB+22, HSC21, IFD+19, JAK19, KBBT20, } \\
\text{KOM+20, KRK21, KKK+21, KSLC21, } \\
\text{LWA21, LGCY22, LYZ+21, LZQ+20, } \\
\text{MZA+20, MRG18, MMMV21, PPRH21, } \\
\text{RDBB19, RSJP19, SG20, SCE21, SWG21, } \\
\text{SLG+21, SRA+22, VCS03, YL20b, } \\
\text{YLZ+20b}. Fraud
[CZ16, CBWF17, Gof19, HRF17, Kru18, MMT16b, RRCL17, Ano18e, CLS+19c, } \\
\text{Kha15, LT2+22, MMT16a, VD17, ZZZ+22}. Frauds [ZTJ+21]. fraudulent [LW16].

Frax [Men19]. Free [HSS+20, SPB17, VM15, Dim20, LTC+19, Six17f].

Free2Shard [RKT21]. FreeBSD
[Ano18b]. freedom [TF16]. Frees [Hou14b]. Freicoin [TF16]. French [San14b, TFG17].

Frequencies [WL22]. Frequency
[Gya21, PMMP19, Via16, MLTT20].
frequency-based [MLTT20]. friendly
[ABB+19, ZWX+20b]. Friends [AMVA17].

frozen [Cim19]. FruitChains [PS17]. Fuel
[Car15, MTR+21]. Fulfillment [Nis16b].

Full
[Ano18b, HSB17c, HSB18g, MMR16, RS13].

fully [HLF+21]. fun [PW17a]. Function
[Ano18g, Bac03, BBH18, CXLG22, KAS+22, Mer88, VFN91]. Functional
[FBGMP23, OOF+17]. functionality
[Wij16]. Functioning [Ker14]. Functions
[Bac02b, Ler13, SBBR17, Per09]. fund
[Pan96]. fundamental [CF15]. Funding
[BDW17, LH217], funds [Cim19].

funktioniert [RE18]. Funktionsweise
[Ker14, RE18, Six17h]. Further [Dre17u].

Future [ASSK21, BBBB15, BVGC22, BK17a, BK18, Bys19, Car15, CWCC21, 
EGB18, Her17, JKS16, KAKC20, MDAP16,
MAP16, PF16, PSGM22, SG19, Son16a, AKT21, CXY21, DPN+22, Ext15, Fri14, GGDK20, HS19b, JCG+21, KGTK20, MKY+21, PDJ22, SC21, SKG13, URC19.
futures [ADZ23].
futuristic [URC20].
fuzziness [LX21].
GAME [AAPZ19, Che18, WZQ+17].
Gamble [Ksh22, Roo18].
Gambling [MCHM17, MMH17].
Game [Hou14a, Hou16, JLG+14, Kra16b, LJG15, LBS+15, Ort16, HS19a, HVM+18, SZdLZ22, YZC22].
Game-enhanced [SZdLZ22].
Game-Theoretic [JLG+14, LJG15].
Games [Alz19, KKKT16, LSP+15].
Gaming [Pia16].
GAN [FYZ+21].
Gap [Dan17a, YZC22].
GARCH [Ara21, Kat17, SKG22].
Gas [KSA22, DLV+22, GJK+18, GJK+20].
Gasp [Bue18].
Gateways [YWJ+16].
Gave [Pav18].
GDPR [BERHE19, PYC21].
GDPR-Compliance [PYC21].
geautomatisierd [PdWWS16].
Gegenbauer [PCP20].
Geld [Möl13, Cap12].
Geldwährungen [WLS17].
Geleit [LPW17a, LPW18, LPW17b].
General [BLPB17, Int14, SV16, DB16].
Generalized [BK17b, PCP20, WdLY+19].
Generals [LSP82].
Generating [BBM+18, LUBS18].
Generation [AMLH15, BH15, But13b, CGT+21, OA17, AMLH18, BCK+21, BHI+14, Hal21, MRG18].
generative [ZSGB+22].
Genetic [MGS22].
Genius [Mez19, Gei16].
Genomic [PKP17].
Geospatial [FHS+17].
German [ABR17, Ale18b, Ano16b, Blo18, BP17b, Cap12, Dix17, DF17b, FRSU17, GH17, HP17, Ker14, KFR17, LPW17b, MG16, Möll3, PB17, Pla13, RE18, RBM17, San14a, Six17a, Six17d, Six17c, Six17h, Six17f, Six17i, Six17j, SKG12, SKG13, Stö17, WLS17].
Geschäftsmodelle [RBM17].
Get [WM18, Cim19, Pec15].
GHash.io [Mat14].
GHOST [KKS+17a].
Gibbard [Ano18h].
Gifted [Ro13].
GIURIDICA [Cap15].
Giving [Ano19b].
Glimpse [LMLA17, Pav18].
glitch [Lee13].
Global [ACM15, Ali15, BK22, Gre22, MMT16b, Mul14h, Yeo15, CV18, CrdK16, GRHS20, OFA22, PCC22, VC15a, VC15b].
Go [BS17a, Fai17].
Goals [AKP17, AKP18].
Going [Dre17u, Cim19, Pec15].
Got [Ro13].
Govern [Nor17a, RRD17].
Governance [ACM17c, BCEM15, Bri21, KPP+20, LSN21, Mor17b, QFLM17, ROH16, SC20, Yer17, CV18].
Governed [LDH17, NOT15].
Government [CDZ+20, OA17, Ohn16, OJ17].
Governments [Chi18, Nar19].
governing [GLC+22].
Gox [FGHM17].
grained [LCZL21, LHI+18, MHL20, RCD+19].
Grand [Ort16, Far18a].
Graph [ADQH22, CLZ+20, DHE16, FPKH17, GGS19, MMR16, OKH13, RS13, WLZ20, ZG15, BDP+15, DMR17a, DMR18, DMR19a, GGS20, LTBY20, Tro15b].
Graph-Based [ZG15].
graph-theoretic [Tro15b].
Graphene [OAB+17].
Graphics [Zei16].
Gratis [Six17f].
Gratuito [PTPR17, PTPR18, SY+20, CCMM17].
Grid [ARL20, GH05, KUEE17, KUEE18, WHW22, ALP15, GLY+21, JAK19, LYW+21, MNB+17, MMMV21, ZHI+20].
Grind [JB18a, JB18b].
Ground [XZL+22].
Grounded [Doz18].
Group [GCH+22, OOF+17, WHW22, YLZ20a, NAR22a, NAR+22b, Tun18, ZLL+19a].
Grouping [NTKS17]. grow [Ker18b].
Growing [JB17b]. grows [SZ13]. Growth [Leo20, CW20, Per20]. Grundlage [RBM17]. Grundlagen [BP17b].
Guarantee [CLJ+21, ZY21]. guarantees [CCMN17, ECA+21, Sir16a]. GuardHealth [WLZ20]. Guest [HWJ22, ZWC21].
gut [Pla13]. Gyges [JKS16].

Hack
[GGS19, Mc13, Nak18, WSZN18, GGS20].
Hacked [Abe18, DMH18e]. Hacker [Ape14, Osb18a]. Hacker-Proof [Ape14].
Hackers [WREK18, Boi18, Nic17]. hacking [Ano18e]. Hacks [dre14]. Hadoop [Li11a, Li11b]. Hailing [Shi19]. half
[Tre22, SPB+22]. Handling
[GHJ21, LMLA17, dSR21]. handover [LCZL21]. Hands [PL16]. Hands-on
[PL16]. Handshake [XJY17]. Hard
[But13a, Lar13, Ler13, ML14, LSZ+21, Per09, Tro14a, Tro14b]. Hardening
[RC17, FMR+19]. Hardfork
[MCHM17, MMH17]. Hardness [SFMC21].
Hardware [BNMH17, NMH16, SNM17, Tay17, WRB15, BBDN21, Per22]. Hash
[Bac97, Bac01, KAS+22, LS20, WDDL19, YLZ20a, Bak09, VFNF91]. Hashcash
[Bac02b, Bac02a, Bac03, Tro15a].
Hashimoto [Dry14]. Hashing
[DCY+22, Dri17a, Dri17i, Ler13, LSZ+21, Tro15a].
Haven [CTM22a]. HCI [SK15]. headless
[TFG17]. Health
[BSLM20, DMH18c, SDC17, Shu19, SZM22, AMME21, BJ20, CLC+19, SMM+20, SML+20, YLM21, YWX+22, ZYL22].
HealthBlock [ZCJ+21]. Healthcare
[ARBK17, DFKU20, IFD+19, Joh18, Ksh18a, RRD17, YWJ+16, ABB+19, BTS+21, CMR+21, CDS+19, GRM22, JJ22, KRR21, MCLH19, MyPLK22, NVE+21, PL20, SJ21, SRA+22, JSY21, TPE20, WLZ20, ZCJ+21, ZYL22]. Healthchain [WL21]. hearing
[Uni14]. Hearings [Dus14]. Heater [Lin15].
heck [Kay17]. Hedging [ADZ23]. heist
[Abe18, Far18a, Hol18]. Heists
[dre14, Gal18]. held [Uni14]. Help
[MBC17a]. Hermes [BVCH22].
Heterogeneous [AA20, LTBY20].
Heterotopia [MK15]. Hey [KD16].
Hidden [EZ17, EZ18, GZH+14, AABE20].
Hiding
[AK14, SZM22]. Hierarchical
[GS15b, SJ21, TYY+19, FTS+20, NAR+22b, WLGL19]. hierarchical-deterministic
[WLGL19]. High
[CGFH16, DMH18g, Dru22, DHES16, Gya21, MPSP17, PMMP19, SS12, SZ15, TOM17, Via16, XLM+17, ZXK+17, BF20, GFLS21, RIMP22, SYH22a, SYH22b, ZLX+17].

high-availability [ZLX+17].
high-dimensional [GFLS21].

High-Frequency [Gya21, PMMP19, Via16].
High-Performance [DMH18g, DHES16].
High-Rate
[SZ15]. high-tech [RIMP22].
High-Throughput
[MPSP17, SS12, XLM+17]. Higher
[MZLW20]. Higher-Level [MZLW20].

Highlights [Sup16]. Highly
[JKKX16, Far18a, RST11, XBX+22, Cim19]. Highly-Efficient
[JKKX16]. highway
[Gal18]. Hijacking [AZV17]. History
[AMVA17, DRE+17, Hll14, Abe18]. Hit
[Ker18b, Ano18e, Lee13]. hitchhiker
[Wal19, Wal18]. HMMs [SS19]. Hoc
[RLS+21, CGFH16, KT18, LMH16, NAR+22b]. HOL [ABBS18]. Hole
[bAHRAK17, bAHRAK18]. Holistic [LX20]. homes [RLQ+21]. Honest
[YCMM20, FZC+20]. Honey [MXC+16].
hood [Zoh15]. Hop [Vo11]. Hop-Proof
[Vo11]. Hope
[Bue18, Per17]. hopeless

GP17b, JRB+17, Ker12, OF15, Sad13, TODM19, BCJR15, IKY05, Jue04.

internationalization [RIMP22]. Internet [AZDF22, DRS22, MFR+21, NSB19, BKV22, AJA+22, AAAC+19, AKT21, Alv18, AAKJ22, Ban19, Big20, Böhm13, CXC+20, CLH+20, CVM17, DGP17, EFM21, GLF20, GLW+20, HL16, HLY19, JCG+21, JB19, JKG21, JCG+22, KTCI21, KTA+20, Ksh17a, Ksh17b, KSLC21, LL16, LL17a, LQYG19, LLCF21, LWZ+21a, McM13, Mic14, PK19, PP16, PC21, QFLM17, RKT19, RWG21, RDBB19, RS21b, Ses18, SM20, SNKG20, Son18, SCZ+21, SGDT19, Sve17, TSY+21, TBB21, UHK+21, XAZY17, XAZY18, XLL+21, XBX+22, ZW17, ZWH+20, ZLS+22, ZLT+19, vO20].

Internet-of-Forensic [KSLC21]. Internet-of-Things [Sup16, TOM17, DXW21, KH17, XLZ20].


Inverse [¨Alv18, Smu18, SXYL23, TJN22, VCLK17, WRB15, WWZ+22, ZG15, CF15, KK17b, Oua21, RSP19].


January [BCJR15]. Japan [Sad13, Nis16b, Űnv21, YWW+18, YWS+18].
Jewels [vO20]. Job [Cim18a]. jobs [Per20].
joint [WZQ+17]. Jointgraph [XHP+21].
Joseph [Ano16c, SM-16]. journal [WZ21].
Journey [BBP19]. Juan [BCJR15].
Judicial [Nav17, VBST21]. junctures [PF18]. June [IKY05].
Junk [DN93]. jurisdictions [Ano14b]. jury [Ano18a]. just [Kay17].

Kademlia [MCD15]. KARMA [VCS03, GH05]. Keep [WM18]. Kernel [WRB15]. Kernel-Level [WRB15]. Key [Alz19, Bon16b, Eti19, GS15b, Jue04, Kee16, MSCH15, WGL19, WHW22, CSC16, DSHJNA18, DAV20, EBSC15, MBB+15, Mer80, NAR22a, NAR+22b, Per09, XLL+21, ZSM22, ZSLY20].

Key-dependent [WGL19]. Keyless [EN17]. Keynote [HM16, Spol17, Web21]. keys [Sc17].

Keyword [JGL+20, SZM22, YWX+22]. Kimberley [Wey19]. Kindleberger [G.17].

King [BSKR21]. kleptographically [WLGL19]. kleptographically-secure [WLGL19].

Know [JBK+19, KD16]. Knowledge [CGGN17, Dan17a, GCL16, MGDEK17, MGDEK18, YS20, PCM+21, XCL+22, YL20a].

Kodak [Ano18j, Bue18, Rou18]. KodakCoin [Bue18]. können [KFR18, KFR17]. Korea [Ano18k]. Kralendijk [Ker12].

Kryptökonomie [Six17e].

Kryptowährungen [Ale18b]. Kubernetes [Yew18]. Kudos [SD16b]. kurz [Pla13].

Labeling [NPS+17]. Lack [MCP+23]. landscape [LSS14]. Language [Coh17, HBJB14, O’C17, Vol18, KF19].

Large [Chr13, S14a, SIDV14, SZJ17, WLXC17, WPC+22, vdHKZ14, DKJ19, FA21, NAR22a, NAR+22b, ZWX20a, ZWX+19a].

Large-scale [SIDV14, SZJ17, WLXC17, WPC+22, FA21, ZWX20a, ZWX+19a]. largest [Abe18]. Last [Bue18, ZGR17, LGL+22]. Last-Gasp [Bue18]. latency [Sal22]. lattice [ES16].

lattice-based [ES16]. launch [Fir18, Osb18b, Sto20]. Launching [Wol18].

laundry [MBB13b, MBB13a]. Learn [HSB17b, HSB18f]. Learnable [RRF22].

Learned [Son16a]. Learning [Als23, BNMH17, Bik16, Böh13, Cae15, Coh20, EZR+22, FZG+22, GLC+22, GMH21, GR17, Gya21, JJFC22, JLLK23, KOM+22, LUBS18, LLL+21b, LLL+21c, LPSP20, NMH16, OAS+21, QUG+23, RT20, RFS+18, SFYB21, SRA+22, SOA+21, WHI+21, AJA+22, AMME21, AKT21, AC21, BCK+21, CLS19b, CLS20, CWCC21, Fan21, GS20b, KKK+21, LLL+21a, MF19, MFE+20, MMT16a, NBP+21, PSY21, PK22, PC21, QHNL21, RSH22, UHK+21, WQGX22, WWML21, XLZ20, YV17, ZDM+21, ZZB+22]. Learning-Based [Als23].

Learns [NVWF14]. leasing [ANMM22]. least [Lau11a]. leave [Ano13b].

LEChain [LLCH21]. Led [HSB18a, HSB18b]. Ledger [AK17, AKP17, AKP18, AKGN18, Ant21, BMTZ17, CZJ+17, EGB18, EZ17, EZ18, Eva14, GCL16, KDSL20, KYV19, LWL+22a, Muf16, RSJ21, Str18, SPS+21, Trc21, VPCP20, VRK21, Wel18, Wu17, XNC21, BCK+21, CM19, FFL21, MGM+17, MMV21, Wat17, Woo14, ZWH18].

Ledgers [AABM17, BMSS19, CWL17].
EG17, LDWS17, Lei16, LS17, Mei18, PP16, TD17a, KF19, MCF20, SK20, Brü17. Legal
[BP14, Kün16, MBC17a, Ole18, Cap15, Far18b]. legality [UJ16]. legally [Sha18].
lege [Kün16]. Legitimacy [IM16]. Lending
[KMOD17]. LEO [LLW17]. Less
[HJB14, BDF+22]. Lessons [Son16a]. let
[Lau11a]. Level [GAK17, MZLW20, SL20, WRB15, BZK+21, CSLD17, FSW14, SG21].
Leverage [Dir19, ADZ23, PCP20].
Leveraging [Ger16, Mue18, RKT19, Cae15].
LI [YN16]. liabilities [Cal21]. Liability
[CIL+21]. Liar [RSK15]. Libertarian
[Eya17]. library [HHT+22]. Licensing
[Mor17]. Life
[KLZ+21, SW17, Aro12, CDS+19].
Lifecycles [NOT15]. Light
[BD19, PC21, ZWX+19b]. Lightening
[BCV19, BS19, LPS+20a]. Lightweight
[BL22, GCKG14, MGE20, MRR+20, 
TMBT19, WWQ+18, WHW22, XCG+17, 
XNC21, ASB+21, AZDF22, BAS+22, 
BTB+21, CW20, LLC+20, LWW+21, 
WLC+22a, ZSW+20, DJK19].
lightweight-script [LLC+20]. Like
[HSB17c, HSB18g, KL18a, Pop17a, BW14, 
SG21, VGJ15]. Likely [DL17]. Limit
[Dim19, WM19]. Limitationen
[Six17], Six17]. Limitations
[Dre17a, GDTP17, KTC121, Six17a, Six17].
Limits [BLNN17a]. line [GH05]. Linear
[KPJ22]. Linkable [SALY17, ZLL+19a].
Linkage [WLW22]. Linked
[EG17, Spo17, TD17a]. linking [wScCsc21].
liquidation [ADZ23]. Liquidity
[BSKR21, BLM22, VLF21]. List
[Ano13a, dre14]. Litecoin [Cal21, HQ15].
Literature [BTvdH20, KT22, SS17a, SBJ20, 
AHH20, VDV21]. Live [BR16]. Living
[FAC22]. LLL [US23]. LLLs [SGM20].
Load [LWL+22b]. Loading [OOF+17]. loan
[WGC19]. Loc [WGC19]. Local
[GMH21, MMT16b, Ano21c, DAGK20, 
MBN+17, Son16b]. LocalCoin [CGFH16].
Locality [FOA17]. localization [GKA+21].
Location
[DS15, ECD17, LHL20, NYZ+20, YZL+19].
lock [RSW96]. Locked
[FYK+17, DSPSHJNA18, YTLD19].
Lockmix [BSK+20]. Log
[ABL18b, Bon16b, SW21, HS19b, MBD+12].
Log-Based [ABL18b]. log-in [HS19b].
logging [PMP19]. Logic
[ARL19, BFS17, BPS18, HM16, IGRS16].
Logic-Based [IGRS16]. Logistics
[PK19, LGL+22]. Logs
[SS17b, vdHKL14, ASM19]. Long [AV22, 
BR16, LJG15, NTRK22, PASA22, PCP20].
Long-Range [AV22]. Long-Term
[LJG15, NTRK22]. Longest [Coi14].
Longitudinal [HSY+21, MB15]. Look
[Ano18d, DP18, HSB17c, HSB18g, HMS17, 
EBSC15, WMHL21]. LoRaWAN [LSM17].
lord [Get16]. Lords [Gre22]. Loses
[Ano19a]. Loss [RKS15]. Losses
[Ami16, dre14]. Lost [Nak18, Sha17].
Lösungsansätze [Six17]. Lotteries
[BZ17, MB17a]. loves [Ano14a]. Low
[GA16, Ksh20, ÖY17, Lee13, PGS+21].
Low-Income [Ksh20]. Low-Level [GAK17].
Low-power [ÖY17]. LPWAN [DGP20].
LSB [DKJ19]. LSTM [SYH22a, SYH22].
LSTM-TC [SYH22a, SYH22]. Luck
[MHWK16]. Lucky [SID14]. Lunch
[VM15].
M [Bon16a, DRS22]. M-ITA [DRS22].
M-Payments [Bon16a]. M2M
[BL22, Gia15]. M2X [LSN21]. MA
[HLF+21]. MA-ABE [HLF+21]. MaaS
[BPT+22]. Machine
[Als23, Bik16, CWCC21, EZR+22, Gya21, 
Hir17, JLLK23, KOM+22, LS21, OAS+21, 
RT20, SOA+21, WHI+21, CLS19b, CLS20, 
DCK21, KKK+21, MF19, PK22, PC21, 
UHK+21, WLL+13, YV17].
Machine-to-Everything [LSN21].
machines [BHI+14, SAL20]. Made
[VA15, Lam01, PLSS17, ZLX+17].

MadMax [GKJ+18, GKJ+20, Liv20].

Maduro [Ano17e]. Mail [Cha81, DN93].

main [YS20, YS21, YP21]. Mainstream [Fug19, Fai17]. Maintaining [TS20].


malware-proof [HYLY19]. Manageable [WWQ+18], managed [LMH16]. Management [ACV17, Ban18, CTM22b, DP18, GANAHJJ17, HP17, HP18, KT22, KPP+20, KUBS22, KKS14, Liu19, MWV+18, Pan18, KRT19, Rin18, TADS20, VMMA17, WMG+21, WLC+22b, XWW17, YW18, ZWQ+16, AHSZ21, AZDF22, BZK+21, CLS19a, Cus14b, DAY20, EBSC15, Gir18, HSGY20, HFP+22, HLF+21, How20, KTA+20, KW20, KG5+19, KBS+21, KGTK20, LM20, LLCH21, LGHY22, LHO+20, LHL21, LTW+21, MISS22, PRRH21, RGB20, Sar21, Sha18, VBST21, WGC19, WMD+20, WLZ20, WLS22, Wij16, XZZ21, YL20a, ZCJ+21, ZNX+21, ZSL21, ZWGC19]. Manager [Men19]. managers [LLWH21], managing [AMLH18].


Market [Ano18f, DMO+19, Hill15, KYLA22, KO22, LS20, LSZ22, LUBS18, MLM16, Ort16, Str18, SS19, Swe16, Wör16, Wu19, YK15, ZWLS18, ZzH21, CCMN17, IKC21, KCS+14, LB18, LMR17, MB17b, PASA22, Son16b, ünv21].

Marketing [Swe16]. Marketplace [Chr13, Bar16, YKJK21]. Marketplaces [KET+17, LPSZ18, NRP+20, GDKJ22, Sub18]. Markets [CCH+20, KCD17, Not19, ZsH21, CF15, LT17, MXW22, MNB+17, VLF21, VX17].


Mean [Ste17]. Measure [Smi18, WPXZ20, Bac02a]. Measurement [Chr13, HSY+21, WCY19, LZDA16]. Measurements [GJH22, DAT21]. Measuring [Vas17]. MEC [MISS22].

MEC-assisted [MISS22]. Mechanising [PS18]. Mechanism [AMEF21, AAJ21, DRSS22, HLC+17a, KK17a, Lin21, RSGA+21, XLM+17, DAV20, FZC+20, GLF20, HTLY21, LZY22, LX21, MHL20, MKL+22, RLQ+21, RDBB19, Shi16, SSL+19, WWZ+20, dORM+20].

Mechanisms [CCC19, JWNS19, JKS+17, MLD19, KOS+21, ZLS+22, ZLL+18, SKMN21]. Media [CR17, DDPS22, MLM16, AZR+20, MLM15, VD17]. Media/Messaging [DDPS22]. MediBchain [ARBK17]. Medical [Big20, ISM17, LCL+22, Liu16,
Shu17, WL21, WDS21, CAA+22, CXWY21, ESP22, GRU22, HZX+20, LLH21, PSY21, TGC+21, ZZB+22, ZGZ21, dAdSM+22.

Meet [Ras13]. Meets [DSW14, DSW16, LQYG19, LNZD21, NSG+19]. Mehr [Dix17].

Membership [CV21, Sal22]. Memory [But13a, Kad18, Lar13, Ler13, LSY+21, VCLK17, DKJ19, LGTS20, PASA22, Per09, PFC20, SKNM21, Tro14a, Tro14b, Tro15b].

Memory-Easy [But13a]. Memory-Hard [But13a, Lar13, LSY+21, Per09, Tro14a, Tro14b]. Men [MPJ+13, MPJ+16].


Method [ACW17, Hal21, JJJ21, KKS14, LZZ+22, WHW22, WPXZ20, Khau15, KW20, QL22, SI16, SYH22a, SYH22b, Ünv21, XZC+21]. Methodology [AAD+21, YCP+21].


Micro-Pricing [VMMA17]. MicroBT [WDDL19]. microgrid [ML20].


[Cim18a, Gre13, McK19, Nak18, YWW+18, YWS+18, Cin19, Osb18b]. Millionaires [Ras13, Pop15, Pop16b]. Millions [Ano19a, BBM+18, Seg18]. MILP [Coe20b].

min [MÖ22]. Mind [Ano14a, MBC+17b]. Minds [GCL16]. mine [GKK16].

Millionaires [Ras13, Pop15, Pop16b]. Millions [Ano19a, BBM+18, Seg18]. MILP [Coe20b].

min [MÖ22]. Mind [Ano14a, MBC+17b]. Minds [GCL16]. mine [GKK16].
[Sha18]. Musical [KPP+20]. Musk [Sha17].
mutil [LHH+18]. My [CMJ21, MBC+17b].
mysteriously [Osb18]. Myth [EBHBL16].

naar [PdWWS16]. Nakamoto
[Cha14, RZJ20, Sha17]. Namecoin [HQ15].
named [JZLL17, ARK20]. Names
[MPJ+13, HS97, MPJ+16]. Narayanan
[Ano16c, SM-16]. Narrative [CR16, RC16].
National [Pan18, SG21, Sto20]. native
[MLK+22]. Natural [AW18]. Nature
[DVRM16, Drc17w]. navigating [Hol15].
NDN [TKBK22, Yan21]. NDN-based
[TKBK22]. Near [Alx19, Ber17]. Necessity
[ZP17a]. need [Pec17a]. needed [Fai17].
needs [Pec15, TLS+21]. negotiation
[FZC+20]. Neighbor [BAK22, PW17a].
NEM [Ano18l]. Neo [CCA+20].
Neoadjuvant [Sha17]. nervous [Ano13b].
Net [Kuz19a, Kuz19b]. Network
[AK17, Ali19, AGT+22, BCG19, BSBI9,
BKP14, CTNS21, CPL+21, DWS21, DW15,
DSBPS+18, DPSJ14, EBHBL16, FOA16,
FSW14, FPD+21, GHJ22, HWCL17, IST19,
JW18, KM20, KLM17, KLZ+21, KFBI22,
KIA19, KKM14, LeO20, LLW17, LPS+20a,
LF16, LVL+22b, LX20, MCD15, MZWX21,
NSB19, NAH16, NIH17, RRM18, RS21b,
SCn+22, SOA17, SCA13, SMZ14, Suk19,
TDW+22, VFV17a, VFV17b, VFV17c,
WL15, WL20, WBJ21, YK15, Zam19, Zl19,
Ano21a, BS15, BSF22, Cas12, CK16, DW13,
DAG20, ECA+20, ECA+21, FOA17, GS20b,
GRM22, Hal21, HvM+18, Iky05, KCS+14,
KKT+22, LeC13, LLW21, LTB20, LLL+21c,
NC17a, NPB+21, NAH15, NVE+21, OTS+21,
PCC22, RKP19, RWG21, Sal18, wScCcS21, Six17h, WLV+22, WC21,
XLZ20, YCM20, ZWS+20, ZWL+22, Ser21].
Networked [CTGJ22]. Networking
[DPS+21, YPFY21, JZLL17, LQZ+20,
WLN+21, YPDC20]. Networks
[ADQH22, BL22, BDW17, EKK+17, FDT17,
GBE+18, JL17, JWN19, Kat16, KG17,
LMH16, LWL+21, MMSK+17, MSH16,
MRR+21, NPG+22, PSS17, RGB20,
RLS+21, RTL17, SKA+20, SYK17, SZJ17,
TWFO20, WCY19, WK19, WPX20,
XNC21, YMY21, ZY21, AJA+22, AGK22a,
A+13, BAK22, BAJ20, BLM19, BER19,
Che18, DkJ19, FZC+20, FD20b, HLC+17b,
KDS+20, KO22, LCSR21, LCZL21, LDS22,
LP18c, LP18d, LZZ+20, MLYL20, NAR+22b,
NPS20, PAS22, SCP+20, SYCC21,
TKW15, VD17, WHY+21, XCS+21, YS21,
ZGR+22, ZLS+22, ZSGB+22, ARK20,
HCB+22, XZL+22]. Netzwerks [Six17].

NeuCheck [LWZ+21b]. Neuro
[JL17, Ser21, VCPC20, WK19, BCK+21,
Che18, GS20b, KO22, LTBY20, LLL+21c].
neuro [AAPZ19]. neuro-fuzzy [AAPZ19].
Neutrality [Kuz19b, Kuz19a]. Never
[McM13, SA20]. newly [Pal18]. News
[Ano16a, DDPS22, Kug18, Pec15, Pec16,
Und16]. Next [AMLH15, BCK+21, But13b,
CGT+21, MRG18, OA17, Tre21, AMLH18,
Ant20, Hal21, LP17b, LP17c, LP18b].

Next-Generation
[AMLH15, But13b, MRG18, AMLH18].
NEXTLEAP [Hal17]. NFC [Mic16]. NG
[EGSvR15, NWGF20b, NWGF20a]. NIC
[SNM17]. NiceHash [Nic17]. Nick [McG18].
NIST256p [US23]. NIST521p [US23]. No
[MPJ+13, Pop17a, VM15, MPJ+16]. Node
[Ano18b, JHB+22, YLZ20a, AJA+22,
HYWY22, HZT+22, HXST20]. Nodes
[FBHS19, Yeo15, OTS+21]. Non
[BMSS19, EAVM20, FDT17, GCL16, TD17b,
Sar21, WLL21]. Non-blocking [EAVM20].
Non-equivocation [TD17b].
Non-Permissioned [BMSS19].
Non-Repudiation [FDT17, WLL21].
non-transferable [Sar21]. Non-Users
[GCL16]. Noncausal [HG15]. nondeterministic [WZS19].
nonmathematicians [Gom16].
Nonoutsourcable [MKKS14, MKKS15].
Nonparametric [DH17]. normal [YZC22].
Normative [RC16]. North [Ano18k].

O [Dry14]. Obama [WM19]. Object [OR17]. Object-Oriented [OR17].
objectives [TBB21]. Objects [AKGN18, Wel18]. oblivion [RS21a].
Oblivious [CXS+17, KPK17, CLT+20]. Obisdian [Cob17, CAMS20, COE+20a]. obsolete [Cha85]. Obstacles [Mei18].
occupies [Nor17c]. Odometer [CBWF17].
Off [Ape14, ET17, GH05, HBG16, KG17, Kra16b, MKKS15, Ano21d, Gal18, JJ22, Lec13, MKKS14, SPM+21]. Off-Blockchain [HBG16, KG17, Ano21d]. Off-Chain [Ape14, Kra16b, JJ22, XXZP21].
Off-Chaining [ET17]. Off-line [GH05]. öffentlicher [PB17]. Offerings [IPL+18].
Ökosphäre [Six17a, Six17f]. Ökosysteme [Sto17]. Oligopoly [AW18]. Olive [But19].
OLSR [CTNS21]. Omni [SS20]. on [Ano21d]. On-Blockchain [HBG16].
On-chain [KOM+22]. once [Sha17]. Oncology [DXR+17]. One [GCL16, Pav18, Uni14, Nor17a, Tun18].
Onion [GP+17, Esc18]. Online [Chr13, JKKXX16, LD17, RRCL17, RGB20, WXH21, CZ16, JFG18, SCE21, YYN+20].
Only [McK19, LP18c, LP18d]. Onto [SD16a]. Ontology [RC16, dKW17]. op [PdWWS16, SS20]. OP_RETURN [BP17a].
Open [ACM17c, ATZ+21, BGM20, BLBS17, Du21, HRE17, Lim18, LNZ+16, TMN17, XW+19, dCdCM14, Cap12, CXC+20, Hol15, KS18, LFX+20, LGCY22, MKS+19, Sko19, SJSY21, VDVC21, WMD+20, Cap12].
Open-source [dCdCM14, Cap12].
Open-Source- [TNN17].
orchestration [AC19]. Order [DDX17, Pav18, VC15a, VC15b].
Order-Preserving [DDX17]. Ordering [BSV17]. Orders [YWS+18, GA18].
Organisations [NST+17]. Organization [NOT15, ZWX+20b]. organization-friendly [ZWX+20b].
organizational [AAGX+22].
Organizations [DMH18f, KPP+20, Son18]. Organized [MDAP16, MAP16, Pie20, Far18a].
Oriented [GvRS17, OR17, BAS+22].
IPSP17, ICGB21, NML19, PPMT17]. 
origin

[CCMN17]. Origins

[SJZG19]. Orphan

[DSBPS+18, IST19]. Oscillators

[YF22].

Oslo [GANAHJJ17]. Other

[EDS15, Eva14, JYKA19, KJGW17, Pop17a, Ano18a, FGHM17]. Our [Smo18].

Ouroboros [KRDO17]. out-of-gas

[GBK18, ICGB21, NML19, PPMT17]. partially

[AVC17]. Participants

[ACV17]. participation

[LP18c, LP18d]. Participation

[Las17, KAP20]. particle

[GS20a]. Parties

[FWB15]. Partition

[KLM17]. Partitioning

[SCN+22]. Partnering

[Sch14a]. Party

[ADM14a, FYK+17, HLC17c, ZGH+15, ABL18b, CLT+20, GLG19, HLC19, Lin17, LYZ+21, XZC+22]. Password

[IK17, JKKX16, LSZ+21, McK19, WGL19, HZ20]. password-based

[ZKU17, Nic17]. Password-Protected

[JKXX16, WGL19]. Past

[BVGC22]. patch

[KW20]. Path

[LCL17, Mei18, LPS+20a, YS20, YS21, YP21]. paths

[YF22]. Patient

[WDS21]. Pattern

[LP+20b, RJK+17, TNJ22, TOM17, HLC+17]. Patterns

[EZ17, EZ18, MYSS19, NML19, SMB22]. PAutoBotCatcher

[LLCF21]. PAXOS

[ADQH22]. PAutoBotCatcher

[LLCF21]. Paxos

[ZLL18, KAP20]. Pay

[Ede14, HSB17d, HSB18h, ZGR17, BDE+13]. payer

[ZLL+19a]. Paying

[LP18c, LP18d]. Payload

[Kan18]. Payment

[AH12, CGFH16, DW15, EKK+17, GM17, KG17, Lei16, LZC+17, MMSK+17, MMSH16, MSH17, Lam01, MDB+12, MPSP17, PLSS17, RLT17, Sch98, Sou13, TWFO20, ZY21, CJW17, ECA+20, ECA+21, Kha15, LWQ+21, MSHM21, WZS19, YTL19, ZWX+19a, ZWX+19b].

Payment-Channel

[MMSK+17]. Payments

[AM15, BSCG+14, Bon16a, CGGN17, Cha83, DNY14, DNY17, Gev16, Gom16, KAC12, MPJ+13, SCC+14, Bar18, Gim16, HCW+18, MPJ+16, PCHD19].

PayWord

[AH12, RS96a, RS96b]. PBFT

[C+20, GRU22, LFZ+21, XBX+22].

PBFT-based

[GRU22]. PBFT-Inspired

[C+20]. PCS

[KL+17]. Peak

[LS20]. Pedigree

[NC17b]. Peer

[AAA020, Ano17a, CVM17, CS15, GH05, KN12, NAH16, Rin18, SOA17, SJZJ17, FOA17,
[CGHC21, SK20]. postage [Bac97]. Postal
[JB17a]. Poster [CGFH16, DNSY14, Hili4, JCG17, XWW17, MHH+16]. Potential
[BBB15, Dre17a, Hili5, HSB17c, HSB18g, Ksh5, Tre17, WZ21, CXL18]. Pound
[Hili4]. Pay [QXC+21, AV22, BDF+22].

PoW-less [BDF+22]. Power
[BD17a, DVR16, LSP+15, WMG+21, YKDEV19, Cae15, Gon17, Hol18, LWXC17, ML20, Ole18, OY17, PW17a]. Powered
[QFLM17, AMME21, ZDM+21]. powerful
[Hol18, RS21a]. Powering [AMLH15].

PPCoin [KN12]. PQChain [EGB18].

Practical
[CDD17, KFN+17, Ksh20, RMSK14, THF17, VSE21, XZY+21, vS02, LWZ+21b, ZLX+17].

Practice
[Ami21, BNMH17, ELFCFL20, N MH16, PCM+21]. Practices
[IPL+18, Mor17d, BGPW16]. Pre
[KL+15].

Pre-Search
[KL+15]. Precise [LGTS20].

Predictable
[ML16]. Predicting
[EZR+22, GGKR21, GAF18, IKC21, JLLK23, KKL+15, Koo18, LUBS18, MF19].

Prediction
[Gya21, JLL, KKL21, NTKS17, RT20, BAR21, CA21, CLS19b, CLS20, IM21, KOM+22, QHLN21, RRF22]. Predictions
[MDAP16, MAP16]. predictor
[ML15].

Preemption
[RRLC17]. Preface
[Ano16, LPW17]. preference
[YP18].

Preferences
[NTKS17, KOS+21]. premise
[PC+21].

Premises
[Han13]. Prescribed
[LP17a]. prescription
[GRU22]. Presence
[GR16, GKK16, KDF13, P10].

Present
[BGVC22]. Preservation
[LKY19, MJS+14, WWQ+18, LLH21, SRA+22, URC19]. preserved
[XZL+22].

Preserving
[ARBK17, ACV17, DCK17, DDX17, KLR+17a, KLR+17b, KMWM17, KUEE17, KUEE18, LS17, LL17b, LL17c, OEO16, OEO17, SVL17, WQX17, WQHX20, ZHC+20, ACKJ22, AC21, BYR+20, BSK+20, CXWY21, DAB+15, DAT21, GGJ22, GLY+21, HZX+20, JLX+19, KUE17, LCL+22, LLCF21, LYW+21, MZA+20, NAR22a, PHH+20, QHLN21, RLS+21, STN22, SJJ+20, WQGX22, XZC+22, YZL+19, YZL22, ZLT+19].

Prestige
[KSAB+21]. Pretty
[WA15a, WA15b, Ito18, Sia17]. prevent
[Lew15, QL22]. Preventing
[AnOE17].

Prevention
[AME21, CBWF17, Poe13, SPB17, Kha15, PSDNAJH19]. Price
[Bla18, EDS15, EZR+22, GHMO17, Gya21, Kha19, LUBS18, PPW+15, RT20, Urq17, Wu19, AAPZ19, CLS19b, CLS20, CLXW22, DAKG20, Edw15, GAF18, K.13, KKK17, Lec13, MB17b, RRF22, Son16b, SOA+21, VLAF21, ZDL17a, ZDL17b]. Prices
[BSKR17, JLL, KJJ22, SNN17, LLJ21, MF19, MYSZ19]. Pricing
[DN93, YNS16, YF22, KTA17, KLL+22, MB17, PPW18, PS16, ZDL17a, ZDL17b].

Principles
[ALP15, TT19, Pil16].

Prioritization
[MPC+23]. Prioritized
[Gou19]. Privacidad
[Bec14]. Privacy
[ACM17d, ATZ+21, ARBK17, ABB+19, ADA17, AAKJ22, AKR+13, ACV17, Ban18, BK22, CIL+21, CBWF17, CVM17, CELR18, DBB+15, DAT21, DCK21, EN19, GANAHH17, GPP18, GˇCKG14, GANT21, GLY+21, Hal17, HHK18, HJPS16, JLX+19, KLR+17a, KLR+17b, KKL17, LLYL19, LGGB19, LSS17, LLH+21, MWG17, NT13, AC21, ACKJ22, A+13, AC21, BYR+20, BSK+20, BLB+21, CSG+20, CCG12, CXWY21, CLXW22, CCM21, ECA+21, ECH+19, GGMJ22, Hea13, HZ+19, JJ22, LCL+22, LLCF21, LL17b, LL17c,
Privacy-aware [BK22].
Privacy-friendly [ABB].
Privacy-Enhancing [LLJ21].

Privacy-preserved [XZL].

Problem [BK17b, Dre17f, KJ17, KJ18, probaibly [ARL19, GZ18, Pop16a].

Proof-of-Activity [LTG+19].
Proof-of-Belief [Abr16].

Proof-of-Work [AMEF21, Bac03, BBH].

Propositions [Han13, Rou18].

Promising [HRE17].

Profits [VM15].
Programmed [Cou14].

Profits [SCYP17, PW17a].

Profitability [GPM18].

Profitable [SVL17].

Profit [LYW +21, MZA +20, MGN +22, NAR+22a, PHH +20, Pec16, RSH22, STN22, SJX +20, SHL +20].
privacy [SRA +22, URC20, WQHX17, WMD +20, WQHX20, WWW +21, WLL+13, XCL +22, YZL +19, YSD+20, ZYL22, ZLT+19, PB17].

Privacy-aware [BK22].
Privacy-Enhancing [MO15, Hea13].
Privacy-friendly [ABB].
privacy-preservation [SRA +22].
privacy-preserved [XZL +22].

Privacy-Preserving [DCK17, KLR +17a, KMMW17, KUEE17, KUEE18, OEO16, OEO17, DBB +15, DAT21, GLY +21, JLX +19, KUE17, QHNL21, RLS +21, WQGX22, ACKJ22, AC21, BYR +20, BSK +20, HZX +20, LLCF21, LYW +21, MZA +20, NAR22a, PHH +20, STN22, SJX +20, XCL +22, YZL +19, ZLT +19].

Privacy-Utility [TWFO20].
Privately [ZC16].
privilege [FTS +20].
PrivySharing [MZA +20].
Probabilistic [ARL19, GZ18, Pop16a], probably [Lau11a].

Problem [BK17b, Dre17f, KJ17, KJ18, LSP82, Bra17, Lee13, LGL +22, Pec17a].

Problems [vSo2].
Proceedings [ACM17c, CRS83, OF15, ACM17a, ACM17b, ACM17d, GANAHJ17, ILY05].
Process [CW1L17, Doz18, MW +18, VCLK17, WX +16, DCK21, FM +19, KFR17, KK17b, LPGBD +19, SJB22, SSSJ19, Wey19].
Processes [GBPDM17, KL17, KL18b, LTH +21, PSHW20].
Processing [DN93, HV20, Hal17, PP16, PSGM22, SZ +15, QNM +19, SZ13, XZXP21].
Processor [BH15, Sou13, BHI +14, WLL +13].

procurement [LLJ21].
producer [CHL19].
Product [Kri19, LD17, LX17, ZTJ +21, AB20, KFR17, XLI +19].

production [Gon17].
products [Ano21c, GS20a, SVi6].

Produkt [KFR17, KFR18].

KFR17, KFR18. Professional [BT18a].
Professionals [Hut17]. Profiling [DLV +22].

Proposal [CTM22b, GPi7a, SI16, HC12].
Proposals [Bra13, EBHB16, ALMLS16].


Random

Ransomware


Recognizing [Dre17a]. recommendation [SJ21]. Recommendations [Kön20].

Recommender [ATZ+21]. Reconciliation [OAB+17]. reconfiguration [VG20]. Record [Liu16, SD16b, CLC+19, PK22, SLH+20, TGC+21, TPE20, VBST21, YLM21, YWX+22, ZG21]. Records [Ale18a, Ksh18a, Shu19, AC21, Ano21e, BBDN21, KRK21, PL20, SMM+20].


Register [ALPBT17]. Registration [AABM17]. Regression [Gya21, SZ14].

Regulation [Ano14b, Lew15]. Regulations [CIL+21]. Regulatory [Bai19, Nav17, Lyn14]. reimburse [Abe18].

Reinforcement [AMME21, LUBS18, LLL+21b, LLL+21a, MFE+20, PC21, WML21]. Reinforcing [EN17]. reinvent [Pop15, Pop16b].

Reinventing [Dre17a]. Related [KCD17, WB17, CXY21, JLX21, RGSGHGCG21].


Relevant [Tre22]. Reliability [JBH+22, BHS93]. Reliable [AS18, FBL+20, HZL+20, ZMD+21].


replaces [Goo18]. Replication [Vuk16].

Repositories [MGDEK17, MGDEK18]. Repository [Pie20]. Representatives [Uni14]. RepuCoin [YKDEV19].

Repudiation [FDT17, WLL21].

Repurposing [MJS+14]. Reputation [JBH+22, KUBS22, ME17, MCS+21, SD16b, SYCC21, SXZ+21, Tam19, YKDEV19, AHH20, SSV22, WLC+20, ZYW+21, dORM+20]. Reputation-based
Reputation-Driven [SYCC21, dORM+20]. Reputation-Driven [JBH+22]. Reput [WSC+20]. requesters [KOM+20]. require [KK20b].

Requirements
[LN17, Lei16, SL18, SL20, ZGY+21, MKY+21, MAQ99, MKS+19, Olu21].

Research

ResNet [NVE+21]. Resolution
[ABL18b, BT18a, NOT15]. Resource
[HWCL17, HYD+22, HM19, JWNS19, MMR+21, RKT22, XWV17, XWL+19, ZZW+21, vdHEM+17, BVK22, PGS+21, QL22, SLG+21, SSSJ19, VCS03, ZWV+20, YJK21, ZGR+22, ZLS+22, ZSL21]. resource-aware [SJJ19].

Resource-Constrained
[MMR+21, vdHEM+17].

Resource-Efficient [XWL+19]. Resources
[HRE17, IM16, Nor17b, RSR17, YZC22].

Respecting [XSC+17]. Response
[SIFMC21, LWQ+21]. Results [GG17].

Retail [AIM19]. Rethinking
[KYV19, Vuk17]. Retricon [SBR16].

Retrievalability [SBR16]. Retrieval
[MGDEK17, MGDEK18]. Return
[Cha81, YK15, ZWSL18, BOS15].

Return-Volume [ZWLS18]. Returns
[HZ21, SS20, Osb18a, PASA22, SKG22, VX17]. Revealing
[Kan20, RDL+20, GZH+14]. Reveals

[KK18]. Reverse [HSBl8c, HSB18i].

Review [Anol6c, Ant21, Big20, BTVH20, FAC22, HHO+21, KT22, KS18, LGR+22, OA17, SN-16, SS17a, SJ20, Thf21, XCW+22, ZDP+22, TZJ+21, AK+22, AH20, CSG+18, CXC+20, CPSGA20, HH22, LHO+20, NAK+22, SC21, SCP+20, TBB21, VDC21]. reviews [LM+21].

Revised
[BBMS14, BCJR15, CSN14, GP17b, JRB+17, Kc12, Sad13, CMR+16, Jue04].

Revision [Woo14]. Revisited
[CGGN17, NWGF20b, Bar17, NWGF20a].

Revisiting
[DLL97, DLL00, HMS17, MC17, MCT18].

Revive [KG17]. Revocation
[DNY17, AHSZ21, LCBl20, SJB22].

Revolution [CMS21, Kün16, Dus18, Hal18, Rot17, TT16, TCI16]. Revolutioniert
[HP18, HP17]. revolutionizing [HP17].

Revisions [DMH18]. Reward
[Anol21b, CKW16, GCD16, KSAB+21, Ros11, SBR17, SD16b, So19, ZLL+18].

Rewarding [LM+21]. rewards [SIDV14].

Rewriting [AMVA17]. RFID [Mic16].

RFID/NFC [Mic16]. Rhetoric [Bel18].

Rich [NTRK22]. richtigen [FRSU17]. Rico
[BCJR15, Nar19]. Ride [Shi19].

Ride-Hailing [Shi19]. rigging [QL22].

Right [FRSU17, Lut17, SK14, HLF+21].

Right-Wing [Lut17]. Rights
[KP+20, KKS14, Rin18]. Rigorous [Tre22].

Ring [JKS16, MMS17, NM16, SLOG17].

RingCT [SALY17]. Ringing [BW17].

Ripple [SYB14, AGK22a, Ale18b]. rischi
[AF16]. Rise
[Bec18, Son14, FR+19, Ge16]. Rises
[Vig15]. Risiken [Ker14, San14a]. Rising
[Sid14, Pro13, Pro14]. Risk
[By21, Kac17, MCB14, MMMP19, SLD14, YWJ+16, AZR+20, DAT21, Gof19, KBS17, NML19, San14b, Unv21].

risk-oriented [NML19]. Risk-rewards
[SIDV14]. Risks
[AAG17, Mai18, MHH⁺16, MCS18, Peo13, AF16, Ker14, San14a, Un14, Wei18].

risques [San14b], RMB [Wu19].

RMKABSE [SZM22]. Road [BABD17, FRSU17, PdWWS16, Chr13, Gre13, Zet13].

Roads [CIL⁺21]. Roadside [XLL⁺21].

Roaring [Wol18], robbery [Gal18].

Roberts [RS14]. Robotics
[ASSK21, Raz19]. Robust [Ibr17, RZJ20, ZY21, HFP⁺22, MMT16a, Sal22].

Robustness [SGK21, ZWX20a].

RobustPay [ZY21]. Roger
[MCH17, MHH17]. Role
[LGK⁺22, SLS20, SL20, AZR⁺20, Blo18, Bra15a, DAGK20]. Rolle [Blo18]. Rolling

rooftop [PW17a]. root [HSGY20, HSGY20].

Ross [Gre13], Route [RLT17], Router
[Esc18, WCL17]. Routing [AZV17, EKK⁺17, TWF20, ZY21, AC19, JCG⁺22, KBS⁺21, LCSR21, LZZ⁺20, PK21, SGM20].

RTChain [SXZ⁺21]. rubbish [Sha17].

Rule [Cuo14, DW18, Nor17a, VB08]. Rules
[Int14, Ber13]. Run [LGJ15]. Running
[BCM16]. Runtime [JS20, PSHW20]. Rush
[BBM⁺18, DMH18, LL18]. Russia
[ACM17c]. Rust [NQ20].

s [Rou18, Sup16, Cle18, SS19]. SADPonzi
[CLS⁺21]. Safe [CTM22a, FDT17].

Safeguarding [NML19]. Safer
[Cob17, COE⁺20a]. Safety
[ALML16, CXW⁺21, LDWS17]. Said
[BSLM20]. Sale [ECHL16, HA15]. Sales
[Nar19, Sid14, YW18]. Salvador [Ksh22]. sample
[CLS19b, CLS20]. sampled
[RWG21]. Samplings [Leo20]. SAMR
[Ale18a]. San [BCJR15]. Sanctions
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Traffic [PHD+17]. Trail [RSGA+21].

TrailChain [GDKJ22]. training [DCK21, LLL+21c]. Traitor [KT15].

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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.

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