

# A Bibliography of Publications in *IEEE Annals of the History of Computing*

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](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org),  
[beebe@computer.org](mailto:beebe@computer.org) (Internet)  
WWW URL: <https://www.math.utah.edu/~beebe/>

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## Title word cross-reference

**\$14.95** [Smi03]. **\$24.95** [Ber03d]. **\$44.95** [Mor03]. **\$8** [Gra21b]. **\$8.50** [Smi78]. **\$95.00** [Win03].  $\pi$  [RG02, She12].  
. [Ber03d].  
**0** [RAG<sup>+</sup>04]. **0-19-514025-7** [RAG<sup>+</sup>04].  
**0-262-03303-8** [RAG<sup>+</sup>04]. **0-262-06224-0** [Ber03d]. **0-262-08305-1** [RAG<sup>+</sup>04].  
**0-7382-0561-3** [RAG<sup>+</sup>04]. **0-801-86895-5** [RAG<sup>+</sup>04]. **0-8018-6809-2** [Mor03].  
**0-929306-27-9** [RAG<sup>+</sup>04]. **0-930405-85-4** [Cer03]. **000-year-old-computer** [Mar10a].  
**01** [Sta07]. **085-296-7926** [Win03].  
**1** [Cor15c, GR02, GH18b, Ich06, Kap07, Kos03b, RAG<sup>+</sup>04, Sac07, Spi15a]. **1-2-3** [Kap07, Sac07]. **1-4033-1517-5** [Smi03].  
**10NES** [O'D09]. **11** [Kis95]. **1620** [Spi05].  
**1870s** [Tym96]. **1880s** [Hei11]. **18th** [Cro03a, Cro03b]. **18th-Century** [Cro03a, Cro03b]. **1920s** [Cor17]. **1930s** [Cor24b, Hei11]. **1940s** [Asp00, Cor06a].  
**1950s** [Cla10, Cor06a, DMD18, Hai09, Kos03a, Tin10]. **1958** [Cob23]. **1958-1985** [Vog17]. **1960s** [Cor02, Don10, Gup07, Hai02, Hai09, Hen05, Joh98, Joh02, Pee09, Smi16b, Tin10, Tym96].  
**1970s** [Cor15b, Cor15a, Gre95, HIIT05, Pee09, RP12, Vid20, VR22, WMB22].  
**1976-1985** [Ber06a]. **1978** [Hus97]. **1980s** [Cor15a, Cor17, Cor24b, Gra21b, Hod19, Nañ22, OARHC10, RP12, Sta15].

**1985-1995** [Ber06b]. **1990** [Wei93d]. **1990s** [Cor15b, Gra21b, HII<sup>+</sup>05, MR22]. **19th** [Sha23]. **1st** [Smi03].

**2** [KD21, McJ17b, Roe16b, Swa05a, Wil92a]. **2.0.1** [Kid00h]. **20** [Mur15]. **2000** [Bru09, Ros04]. **2000s** [Smi16b]. **2002** [RAG<sup>+</sup>04]. **2016** [Ano15a]. **2017** [Ano17a, Sid20]. **2018** [Yam19a, Yam19b]. **2019** [Wal19]. **2020** [Ano20p, Ano20-28, Ano20-38]. **2022** [Ano21a, AH23]. **2024** [Cor24a]. **20th** [Kid96a]. **210** [Run08]. **21st** [Ano20n, Ano22-59, Ano22-61, Ano23-49, Ano23-50, Ano22-60]. **28a** [Wil00c, Bro00].

**3** [Kap07, RAG<sup>+</sup>04, Sac07]. **30** [Smi07]. **30-Million-Rule** [Len22]. **33** [Per99]. **370** [Wad12]. **3rd** [Kra22].

**4004** [Asp97]. **440** [JMSV10, JMV10, Sie10].

**5** [RAG<sup>+</sup>04]. **50-Year** [Nel22]. **50th** [Wal19].

**60** [DA14]. **6000** [Var94]. **650** [Gil07].

**7** [RAG<sup>+</sup>04]. **70** [Sta03].

**8** [RAG<sup>+</sup>04]. **80** [de 74]. **8086** [Maz10]. **80s** [Der20]. **850** [OARHC10].

**9** [RAG<sup>+</sup>04]. **940** [KH21b]. **978** [GH18b]. **978-0-262-03398-5** [GH18b]. **978-1-4214-1868-1** [GH18b].

**A.** [Kid96b]. **AAAS** [Wal19]. **ABA** [McK95]. **Abbate** [Rus13c]. **ABC** [Swe05]. **Absence** [Cam09]. **Abstract** [GR22]. **Abstraction** [VT21]. **Academy** [JB07]. **Access** [Bac09]. **Accomplishments** [HII<sup>+</sup>05]. **Account** [Kos03b, McK11]. **Accreditation** [AH23]. **Accurate** [Smi99a]. **Achieve** [Ano17b, Ano17c]. **Achievements** [Rei23b]. **ACM** [PP21, Ano19a, Ano21b, Ber09]. **ACM/IEEE** [Ano19a, Ano21b]. **Acoustic** [ES05]. **Acoustics** [Swe05]. **Acquire** [Cor19a, Cor19b, Cor20]. **Acquisition** [Bau06]. **Across** [RCP<sup>+</sup>13]. **ACS** [Ran15, Rob16]. **act** [BW00, Wil00b]. **Action** [GH18b]. **Activist** [Nyi11]. **activity** [CK92c, CK98]. **Ad** [Ano18c, Ano18d, Ano18p, Ano18o, Ano18t, Ano18v, Ano18u, Ano18-27]. **Ada** [Lee00a, Spi03, Too96]. **Adabas** [Mag09]. **ADAPSO** [Hai04b, Hai05b]. **Adder** [HT12]. **Adding** [Kid01d, Roe08, Kid00a, Kis98]. **Addressing** [Day21]. **Adelle** [Asp01a]. **administration** [Gri98]. **Administrative** [Ano18m, Ano18n]. **Adobe** [WG19]. **Adopter** [Gal11]. **Ads** [Ben13]. **advantage** [Asp00]. **Advent** [McJ20, Mor20, Yos13a]. **Advert** [Ano22a]. **Advertisement** [Ano13b, Ano13c, Ano14d, Ano14f, Ano14g, Ano14k, Ano15b, Ano15c, Ano15e, Ano15f, Ano15g, Ano15l, Ano15m, Ano15a, Ano15n, Ano15o, Ano15q, Ano15p, Ano15v, Ano16a, Ano16b, Ano16h, Ano16i, Ano16m, Ano17f, Ano17m, Ano17u, Ano17w, Ano17x, Ano17y, Ano17z, Ano13g, Ano13f, Ano14c]. **Advertising** [Hic10]. **Advocate** [Smi11]. **AEG** [JMSV10, JMV10]. **AEG-Telefunken** [JMSV10, JMV10]. **aerospace** [Joh96]. **Affair** [van19]. **AFIPS** [Gro92]. **AfroNet** [McG21]. **After** [BS11, GM96, GS09, LH95, Lon08]. **AG** [Mag09, Lei17]. **Again** [Mir17]. **Against** [GS07]. **Age** [MT06, Mor03, Nof23, Bow96c, Kid99a]. **Agenda** [Cor04]. **agendas** [Owe96]. **Ages** [Kid99e, Smi03]. **Agricultural** [Gri00a]. **Ahead** [Mar12]. **AI** [Ano22b, Ano24a, Cop23, Gar21, Kel22, PPM<sup>+</sup>23, Sch23, SST22, Ste22]. **Aided** [Cro18, ORB<sup>+</sup>92]. **Aids** [Gri01b, Mil11, Pol95, CF92]. **Aiken** [Coh98, Cop04b, Cro00b, Lee00c].

**Aiken-Dahlgren** [Lee00c]. **Air** [Dor94].  
**airborne** [Bro99b]. **Airline**  
 [Ekl94, RAG<sup>+</sup>04]. **Airy** [CK92a]. **Akera**  
 [RAG<sup>+</sup>04]. **al** [Cop23]. **Alamos**  
 [HPR14a, Lew17]. **Alan**  
 [Bar07, Hsu20, Sau93]. **Albert** [Ano12a].  
**Alberta** [SW96, Smi07]. **Alcoa** [Ges08].  
**Aldrich** [Ano00b]. **Alfred** [Nyi11]. **Algol**  
 [Alb14, AD14, Bra13, Dur14, DA14, MK14,  
 Nof10]. **algorithm** [RG02]. **Algorithmic**  
 [DA14, GG92, TYD21b]. **Algorithms**  
 [Dry18, RG02, Fit23]. **All-Important**  
 [Nof23]. **Allan** [BH99, Wil00c, Wil00d].  
**Allen** [Sim98]. **Allocation** [VT21].  
**Almanac** [Cro03b]. **alone** [Bis98]. **Alper**  
 [Sid20]. **Alternate** [Wil98a]. **Alternative**  
 [Alp15]. **Alto** [Spr18b]. **Always** [SB20].  
**Alwin** [Tod93]. **Amateur** [Got14].  
**Amazon** [Léc21]. **Ambiguous**  
 [Lee97, Sjö11]. **Amendment** [AG19].  
**America** [Alb10, Mag09, McK22a, da 15b].  
**American**  
 [Ano00b, Ken22, AW94, Bur02, Cor96,  
 Cor07, Dia12, Don10, Hai10a, Hei97, Hei11,  
 Mai16, Mor19, Rio00, Sch17, Uss96, Vog17].  
**Americanization** [Alb10]. **Amiga**  
 [Rus13c, Sza18]. **among** [Kid99b].  
**Amsterdam** [AD14]. **Amy** [Fit23].  
**Anacom** [Asp93a, Ges08]. **Analog**  
 [Asp93a, Cly93, Coh15, Col14, Hem14a,  
 Kra22, Sma93, Bow96c, Joh96, Per99, Puc96,  
 Tym96]. **Analysis** [And22, Neu09]. **Analyst**  
 [Wil03, Too96]. **Analytical**  
 [Bro00, Wil00c, Bro98]. **analyzer**  
 [Hol96, Tym96]. **analyzers** [Hai03a].  
**Ancestor** [Har13]. **Ancient** [GB13, de 59].  
**Anderson** [Gui99]. **Andrew** [CH15].  
**Andries** [Mac98]. **Anecdotal** [Smi01b].  
**Anecdotes**  
 [Ano97a, Ano02b, Ano10a, Ber03f, Fit02a,  
 Fit02b, Fit03a, Fit03b, FAP<sup>+</sup>03, Fit03c,  
 FRB04, Gri01a, Kap97, LM06, MS09, Pat06,  
 Rob05a, Rob04a, Rob04b, Rob04c, Rob05b,  
 Rob05c, Rob05d, Rob05e, Roe09, Tom92a,  
 Tom92b, Tom92c, Tom93a, Tom93b,  
 Tom93c, Tom94, Tom95b, Tom95a, Tom95c,  
 Tom99, Tom00a, Tom00c, Tre01].  
**Animated** [Was13]. **Annals**  
 [Ano03a, Ano06, Ano07, Ano19f, Ano20f,  
 Ano20g, Ano21h, Ano22g, Ano22h, Ano22i,  
 Ano23e, Ano23f, Ano23g, Ano24d, Ano24e,  
 Ano98b, Ano19b, Ano20-27, Cer02, Gal04,  
 Ano20-51, Ano21-52, Ano22-68, Ano23-58].  
**Anne** [Nik17a]. **Anne-Louise** [Nik17a].  
**Anniversary** [Kid96a, Wal19, Win96].  
**Annual** [Ano00a, Ano01a, Ano02a, Ano03a,  
 Ano04a, Ano05, Ano06, Ano07, Ano09a,  
 Ano09b, Ano11a, Ano13a, Dod00, Wal19].  
**Answer** [Ber14, Cor04].  
**Anthropomorphosis** [Sta20b].  
**Antikythera**  
 [Ash76, Bal76, Bro77, Dra76a, Nas75, Nor77,  
 Ole77, Smi78, Bro86, Mor84, Spi08, de 74].  
**Antiquity** [Smi78]. **Antivirus** [ZS23].  
**anyone** [Kis99b]. **Apollo** [Kid99d]. **App**  
 [SH19, Ano24o]. **Application**  
 [Cas06, Cor97]. **Applications**  
 [Ano97b, GR02, Ray02, Sch06a, SST22,  
 Whe92b, Cor96, Ano22-31, Ano19h, Ano20b,  
 Ano20j, Ano22j, Ano23h, Ano24f]. **Applied**  
 [CD14, Sch23]. **Appreciation** [Mor84].  
**Apprehension** [Tha17]. **Approach** [Lat13].  
**Appropriating** [Alb10, Don10].  
**Appropriation** [BLH12, Yos13a].  
**Appropriations** [Ken22]. **April** [Cor24a].  
**Arc** [Ges07b]. **Archeologist** [Ber03d].  
**Architect** [And07b, Nik17b]. **Architects**  
 [Kid99e, MK20]. **Architectural**  
 [Hal18, Cer97]. **Architecture**  
 [Ano20h, Ano20i, MA96, Paw22, VT21,  
 Fal98, Roj97, Ano24g]. **Architectures**  
 [Lav93]. **Archive** [ORB<sup>+</sup>92, Sha00].  
**Archives** [BK01, Fei10, ORB<sup>+</sup>92]. **Area**  
 [Ges06b, Ges09a]. **Argentina** [Car15].  
**Arithmetic** [Roe15, Roe16b, Wil97a].  
**Arming** [AW94]. **ARPA** [O'N95].  
**ARPANET** [FC15, O'N95, Wal19, VR22,  
 WMB22, FC16, Kir99, Luk11, WI14]. **Array**

[Smi11]. **Art** [Col14, Gar21, McD10a, OB08]. **Arthur** [Asp07, Asp21, Mis07a, Wei92e]. **article** [Ano98b]. **Articles** [Ano20l, Ano21l, Ano21m, Ano21k, Ano22m, Ano22u, Ano22k, Ano22l]. **Artifacts** [Ens07, HC20, Yam18]. **Artificial** [Ano21-46, Ano21-47, Ano22p, Ano22-63, Ano23-52, Ano23-53, BG22, Har22b, Kan21, Kli11, PS23, Shi19, dPRG21, vH23, Ada96, Kan21]. **artillery** [Per99]. **Artist** [Gri22c]. **Arts** [SWH18]. **Asia** [Cho16, RCP<sup>+</sup>13]. **Asian** [NM09]. **Ask** [Nov16]. **Asociación** [FHD17]. **Aspects** [DMS18]. **Aspray** [VM18]. **Assembling** [Ñañ22]. **assembly** [Hol97]. **Assertions** [Hoa03]. **Assessing** [CG20]. **Assisted** [BH95]. **Assistive** [Alp15]. **Associates** [Moo03]. **Association** [CCK00]. **associative** [Ber03f]. **Assurance** [CK94]. **Astonishing** [RC23]. **Astronomical** [Roe12, SB20]. **Atanasoff** [Gri00a, Lee95d, Wil01b]. **Atex** [Dra18, Sey18a]. **Atlas** [How99]. **Atsushi** [RAG<sup>+</sup>04]. **Attempt** [Bau06]. **Attention** [Cor22, Fra23a]. **Audio** [Gri22a]. **Augmentative** [Alp15]. **Augusta** [Lee00a]. **Australia** [BT23a, Mac03]. **Australian** [Ain23, Tat13]. **Author** [Ano13a, Ano18a, Ano00a]. **Authoritarian** [Per20]. **Authoritarianism** [da 15a]. **Authoritative** [RAG<sup>+</sup>04]. **Authority** [Gal11]. **Authors** [Ano92c]. **autobiography** [Hal00]. **Automata** [Kli11]. **Automated** [Ekl94]. **Automatic** [Hus97, Jon04, VT21, Kis95]. **Automatics** [dPRG21]. **Automating** [Mar02]. **Automation** [BB02, BGM02, Hai06, McC02, Sla15, Yos23, De 95, Mac95, Ken22]. **Autoscritcher** [CF92]. **Availability** [EHP22]. **Award** [Ano16h, Ano21a, Ano22-69, Ano15a, Ano17a, Ano17l, Ano19a, Ano21b, Ano21a, Ano23z]. **Awards** [Ano16a, Ano17d, Ano19o, Ano19p, Ano20r, Ano20s, Ano21-37, Ano21-38, Ano23n, Ano23-41, Ano24-28, Bow98b, Ano17y, Ano22-51]. **Away** [Est22]. **B** [Fit23]. **B.C.** [Bro77, de 74, Bal76, Dra76a, Nas75, Nor77, Ole77, Smi78]. **B5000** [GS03, GS09]. **Babbage** [Ano00b, Ano17a, Ano21a, Asp07, CK01b, Lee95e, Mis07a, Nor01, Sei95, Wil00c, Yos21, Ber92, Bro98, Bro00, BW00, CK94, CK00, CK01a, Dod00, FF03, GG92, Gri10, Hym92, LaV24, Rob93, Roe09, Roj21, Swa05a, Wil00a, Wil00b, Wil98b]. **Baby** [Cop11b, Bur05]. **Bachman** [Hai11]. **Back** [Fel11, Mul03, van19, Tym96]. **Bag** [Cor13]. **Balances** [Vid20]. **Balls** [Was13]. **Baltimore** [GH18b]. **Banking** [FM93, Mar12, MF93, Tol21, McK95]. **Banks** [Neu04]. **Barcelona** [FH14]. **Barclays** [Mar12]. **Bardeen** [Sei03]. **Base** [Hai09]. **Based** [Nov11, Ste03, CMM95, Est00]. **Bassett** [Mor03]. **Battalion** [Hea01a]. **Battle** [Lus21]. **Battles** [Mul20, Kid00e]. **Bauer** [Léc21]. **BBC** [Jon04]. **BBN** [Bar05, Ber05, Cas06, Feu06, FC16, Hea05, Lev05, Mak06, PB06, Sch06a, Swe05, Wei06]. **BC** [Ash76]. **Be** [Ano16i, Ano17k, Gal04, Tes18]. **beaten** [Joh99]. **Beatrice** [Cam03b]. **Beauchamp** [Win03]. **Beautiful** [CCK00]. **Became** [Kat10, Pau14]. **Beckmann** [OB08]. **Before** [AC16, Fra04, Ger04, GS03, LaV24, Lig03, Mor20, Pol97, Roe16a, RAG<sup>+</sup>04, Tak96]. **began** [Joh98]. **Beginning** [BGM02, Car15, Dar12, FBK06, Kid00d]. **Beginnings** [Cro93, LML92, Mur09, Neb98]. **Behavioral** [Swe05]. **Behind** [Cam03a]. **Being** [Bur23]. **Belarus** [Sto99]. **Bell** [RAG<sup>+</sup>04, Irv01, Spi15b]. **Bells** [OK07]. **Benchmark** [Kap07]. **Benson** [Dia16]. **bent** [Cos96]. **Beranek** [WN05, WN06]. **Berkeley** [Lon04, Yat97]. **Berlin** [Kir20]. **Bernard** [Fra23b, HW03b, Ake08, Hai04b]. **Bernie** [Hai04b, Ano01b]. **Berry** [BS96]. **BESK** [Pet05]. **Best**

[Fev13, Ano17o, Ano17p, Cor24b]. **Bets** [HPR14a]. **Better** [Ano17w, Ano17x, Ano17v]. **Between** [Cor21a, Gre05, Kel22, RAG<sup>+</sup>04, SR14, VHCSCC15, DMD18, DeN15a, De 95, Yat97, Ger04]. **Beyond** [CP23, Sta19]. **Bibliographic** [Ano97b]. **Bibliography** [Ano92e]. **Big** [Ano16m, Ano19k, Ano19l, Ano20k, Ano23j, Joh99, Med08]. **Bigelow** [Wal18]. **Bill** [Eck07b]. **Billion** [Gra21b]. **Biographies** [Ada05, Ada06, AD07, And09, Ano92c, Ano97c, Ano98a, Ber06c, DSW92, DH08, For97, HW03a, Hai03a, HW03b, Hai03b, Hai04a, Hai04b, Hai04c, Hai05a, Hai05b, Hai05c, LB06, Lee99a, Lee00b, Lee01d, Lee01c, Lee01a, Lee01b, Lee02, LH03, Pol03, RAG<sup>+</sup>04, Van09, Wei92e, Wei92b, Wei92c, Wei92d, Wei93d, Wei93a, Wei93b, Wei93c, Wei94b, Wei94c, Wei94d, Wei94e, Wei95c, Wei95a, Wei95b, Wei96a, Wil92b]. **Biography** [Asp21, Gio93, Gri11a]. **Biological** [Cob23]. **Biology** [Sau93, Ste22]. **Biomedical** [Nov11, Rus13a]. **Bion** [Kid97b]. **Birth** [CG94, Lip15, McQ09, Kid99a, Win96]. **Birthday** [Lee93d]. **Bitnet** [GC00]. **Black** [McG21, Cou95, Nor23, McG21]. **Blackett** [And07b]. **Blaise** [Kis98]. **Blanch** [Gri97]. **Bletchley** [Ano97e, Wei94a, Ano22-67, LH95, ORB<sup>+</sup>92, Sal05]. **Blomkamp** [RCP<sup>+</sup>13]. **Blue** [Joh99, Med08]. **Board** [Ano09c, Ano09d, Ano15e, Ano15f, Ano19s, Ano15d, Ano19-34, Ano19-35, Ano21-34, Ano21-35, Ano21-36, Ano22-47, Ano22-48, Ano22-49, Ano22-50]. **Boat** [Ges07a]. **Bob** [Car23]. **Body** [Ano97d, Lea23]. **Boeblingen** [Gan04a, Gan04b, Roj04a, End04]. **Bohn** [Wal20]. **Bolt** [WN05, WN06]. **Bombes** [EMW02, LBA00]. **Bond** [McJ20]. **Bone** [Roe17]. **Bonner** [Moo03]. **Book** [Ake00, Ano97b, Ano97e, Ano97d, Ano97f, Bal76, Bar03, BS11, Ber03d, Bro77, Cam22, CK97, Cer03, Dra76a, EA17, Fie03, Ger04, Gui99, Kid99a, Lee97, Lee99b, Mis99, Mor03, Nas75, Nor77, Ole77, Pos00, Rio00, Roj04a, Roj04b, Rus16d, Rus17, Sei03, Sid20, Smi99a, Smi02, Smi03, Smi78, Smi99b, Spi03, Spr18a, Tym99, Wal00, Wei94a, Wil00a, Wil01a, Win03, Yos22, Rus15c, Rus16a, Lip15]. **Books** [Smi03, Ano14e, CB19, GH18b, KW19, Rus13b, Rus14b, Rus14a, Rus15d, VM18]. **Bootstrapping** [Bar03]. **Boroughs** [Ges09b]. **Both** [Fev13]. **Bottomless** [Med08]. **Boucas** [Per20]. **Bouncing** [Was13]. **Boundaries** [Jes07]. **Boys** [Pet05]. **Brain** [Ano00b, Bow96c, Wil00a]. **Brake** [Hic08]. **Branch** [BBW18, BBW19, Cor17]. **Brazil** [Per20, RC15, da 15a]. **Brazilian** [CdLF<sup>+</sup>22]. **Breaking** [GM96, LH95]. **Bresenham** [RG02]. **Brief** [DAGVR<sup>+</sup>15, Léc21, Rob19, Tak96, Tri01, Wir08, Kid00h]. **Brinch** [LH03]. **Britain** [Cop23, Mac03]. **British** [Bow96c, CCK00, Hic10]. **Brno** [SWH18]. **Broadcasts** [Jon04]. **Brogramming** [Hic13]. **Bromley** [Wil00c, Wil00d]. **Brooks** [Hsu23]. **Bruderer** [Kra22]. **BT** [Per99]. **BTM** [Yos13a]. **Buffer** [Sho01]. **bug** [Kid98, Ekl92]. **Build** [Ano00b, Roj04a, Wil00a]. **Build-Up** [Roj04a]. **Building** [ACCH23, Ake98, DCG<sup>+</sup>08, ERS03, Hai03a, Wil01a, Lin16]. **Buildup** [Gan04a]. **Built** [Hea03, Luk11]. **Bundling** [Pug02]. **Bureau** [Gur96, Hai04b, Kir98, vdE94]. **Bureaucratic** [Hey08a, Hey08b]. **Burroughs** [Bra13, GS03, GS07, GS09, Kos03a, Mar12, Yos13a]. **Bush** [Ano00b, Kid96f, OK07, Puc96, Rio00]. **Business** [All18, Cam22, Cor06a, Cor07, Gra13, Har22a, Kid99e, Ste22, Lan00, Old95, Uss96]. **Busman** [Ges06a]. **Byron** [Too96]. **BYTE** [Kid96a].

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**F** [Est02, Lee98a, Van09]. **Fabrications** [RC23]. **Faces** [Gru05]. **Facilities** [AW94]. **Facit** [Pet05, San13]. **FACT** [Hea03]. **Factory** [Lin16, vdE94]. **Facts** [Bru17]. **Failed** [Har13]. **Failing** [Cer14]. **Failure** [CO12, Cro18, Ich06, Mai16, Neu09, Ste06, DV18]. **Fairchild** [Law10, LR12, Maz08]. **Fake** [HC20]. **Fall** [Dur10, Gaw19, Gri01b, Hou21, Oba22, Rub06, Spi21, Tak05, Lee95f]. **Familiar** [Roy11]. **Family** [Sch17, KS97, Lee00a, WD98]. **Fantasy** [Cro18]. **Far** [Mar12, Hen05, HIIT05, HII<sup>+</sup>05]. **farm** [Hal00]. **FastLane** [GH18b]. **Fate** [Wil93b]. **Father** [Sub12]. **Featured** [Ano20-50]. **features** [HTAY97]. **Featuring** [Bul21]. **federal** [Gre95]. **Federation** [Bra22, Tat10, Not20]. **Feedback** [Ger04, RAG<sup>+</sup>04]. **Feigenbaum** [Gri13, McC22]. **Fellows** [Yos23]. **Fellowship** [Yos01]. **Female** [Cam03b]. **Fermat** [Cor08a]. **Fernando** [Ano12b, Spi15a, Spi16a]. **Fernbach** [Ano17y]. **Ferranti** [Twe93]. **Ferrite** [Car92]. **Ferut** [Hum94, Wil94b]. **Feynman** [Sei00]. **Field** [McG12, SW95, Mey99]. **Fields** [Ens01]. **Fifties** [DMD18]. **fiftieth** [Win96]. **Figure** [Wu15]. **film** [Rus15c]. **Final** [Ber03e, Ekl92]. **Finance** [Der20]. **Finding** [Gra20a, Mah04]. **findings** [Kis98]. **Finis** [Sav23]. **Finland** [Paj08, SS09, SR14, Veh99]. **Finn** [Ber03d]. **Finnish** [VN11]. **fire** [Kid99a, Per99, Kne21]. **firing** [Pol97]. **Firms** [Hai05b]. **First** [Ain23, Ano00b, Bac09, Cam22, Car20, CP23, Dav17, Doy01, Dra76b, DA14, EF11, Gal04, Gil07, GS04, HN13, HO23, Ich06, Kid99e, Neu05, Roe09, WN05, WN06, Wil18, ZR06, vN93, Ake00, Bis98, Bro99b, FAP<sup>+</sup>03, Gil97, Joh99, Kis95, Lan00, LBA00, Mar10b, Rei97, Wei00, Wil00a, Wil92b, Too10]. **First-Generation** [Ain23]. **Fit** [Ano16j, Ano17w, Ano17x, Ano17v, Ano17b, Ano17c]. **FITS** [SB20]. **Five** [Jon04, McK22b]. **Fixed** [Est02]. **Fixed-Plus-Variable** [Est02]. **Fixes** [Hod19]. **flaws** [Ano16f]. **Flood** [RCP<sup>+</sup>13]. **Flow** [WP94]. **Flowcharting** [Kid19a]. **Flowers** [Hai18]. **Flows** [Fra18]. **Floyd** [Hai04c]. **Flyable** [Bro99b]. **Focus** [Ano15g, Ano16b, Ano17f, Ano17e]. **Follow** [Wes17]. **Followed** [Wes17]. **Following** [Bor08]. **Font** [Big20a, Big20b]. **fonts** [Wri98]. **Footsteps** [Lav06]. **Forbe** [Lee99b]. **Forbes** [Kid99e]. **Forces** [Jor09]. **Ford** [Bur02, Cly93]. **Forensic** [Tha17]. **forget** [Lee96]. **Forgotten** [CH15]. **Fork** [NL16]. **Form** [McD10a]. **formal** [MP97]. **Format** [Hos24]. **Formative** [Gra12]. **former** [Ber03f]. **Forming** [Min07b]. **Formula** [Ram97]. **Fortran** [Bac98, McJ17a]. **Forward** [Cor07]. **Fostering** [Uss96]. **Foundation** [GH18a, Roj04a, Bur02, Nor01]. **Founders** [Joh02]. **Founding** [Ber05, ERS03, JB07, Pag08, WG19]. **Four** [Ral04, Rus13b]. **Fourth** [Raw14, AG19]. **Fowler** [GHV05]. **FP** [Var94]. **FP-6000** [Var94]. **Fragments** [Roe09]. **Frame** [Sho01, Mur19]. **FrameMaker** [Mur19]. **Framework** [EHP22]. **France** [BBC<sup>+</sup>09a, BBC<sup>+</sup>09b, PM12, MK14]. **Frank** [Hai04b]. **Franz** [KK22]. **fraternity** [Kid00a]. **Frederick** [RAG<sup>+</sup>04]. **French** [Fra23b, LaV24]. **Friedland** [Gri22b]. **Friedman** [Buc95b]. **Friendliness** [Nor23]. **Frohman** [Kat18]. **Front** [Ano13d, Ano14b, Ano15h, Ano15i, Ano15j, Ano15k, Ano16c, Ano16d, Ano16e, Ano17g, Ano17h, Ano17i, Ano17j, Ano18i, Ano18f, Ano18g, Ano18h, Ano19t, Ano19u, Ano19v, Ano19w, Ano20u, Ano20v, Ano20w, Ano20x, Ano21p, Ano21r, Ano21s, Ano22v, Ano22w, Ano22x, Ano22y, Ano23u, Ano23v, Ano23w, Ano23x, Ano24l, Ano24m, Ano14a, Ano21q].

**Frontier**

[Ano97d, Ano00b, Sou19, Bir00, Rio00].

**Fuhgedaboudit** [Ges09b]. **Full** [HIIT05].**Fund** [Vid20, Ano22-37, Ano22-38, Ano22-39, Ano22-40, Ano23-31, Ano23-32, Ano24r, Wei96d]. **Furber** [Gri14]. **further** [LS00]. **Future**

[Hai06, Lee92h, Pay14, Tym99, Rus13c].

**Futures** [Cor24a]. **Fuze** [Lat13].**G** [Kid97a]. **Galileo** [Dra76b]. **Galler**[Ake08, Ano01b]. **Game** [Jor09, Nyi11].**Games** [Ano09e, Ver11]. **Gaming** [SS09].**Ganzhorn** [Roj04a]. **Gaude**[BBC+09a, BBC+09b]. **GDR**[Cor12, Don10, Sch23]. **Gears**[Smi78, de 74, Nor77, Ash76, Bal76, Bro77, Dra76a, Nas75, Ole77]. **geeks** [Rus16a].**Gehani** [RAG+04]. **Gender**

[Abb03, Rus13c, Sch17, Ste03, Veh99, Ada96].

**General**

[Ano19b, Ano19q, Ano19-38, Ano19-39, Ano19-44, Ano19-48, BG93a, ERS03, Gar21, Sma93, Kru94, Lee95f, Lee97, LS00, Old95].

**General-Purpose** [ERS03, Sma93].**Generated** [Fra13]. **Generation**

[Ain23, GS01, GS04, GS09, Raw14, Yos01].

**Generations** [Swa95c]. **Genesis**[Hol94, RAG+04, Run08]. **Genie**[KH21a, KH21b, Kid99e]. **genius** [Sei03].**geniuses** [Rus16a]. **Geoghegan** [Fra23b].**Geologist** [Smi11]. **Gerard** [Wei96f].**German** [Ken22, PPM+23, Bul21, Car92,Cor12, CF92, Lei08, Sie10]. **Germany**[Aum11, LM94, Sch17]. **Geromat** [Kir20].**Gertie** [Pet94]. **Gertrude** [Gri97]. **Get**

[Ano15l, Ano20y, Ano20z, Ano21t, Ano21u,

Ano21v, Ano21w, Ano22z, Ano22-27,

Ano22-28, Ano22-29, Ano23y, Ano24h,

Ano24n, FAP+03]. **Gets** [Bro10, Joh99].**Getting** [Hea02]. **Giant**[AC16, CVRM15, Sat11]. **Giants** [Mor19].**Giving** [Sid20]. **Glaser** [Out03]. **glass**[Goy96]. **Global** [Ano97f, Cor04, Ens13,

Ens18b, Hou21, Lis24, Shi19, Kid99b].

**globalization** [Kid00f]. **Gloria** [Nel22].**Glory** [Hea04]. **Go**[Cor04, Der20, Ano14k, Gas99]. **Go-Go**[Der20]. **goals** [Ano17b, Ano17c]. **going**[Owe96]. **Gold** [Est22]. **Goldstein** [Hai04b].**Gopher** [Fra04]. **Gordon** [Spi15b]. **Got**[Hai09, Ano16f]. **Gottschalk** [Dia16].**Governance** [Par16b]. **government**

[Gre95, Uss96, Hun12, War15].

**Governments** [Kid19b]. **Graduate** [Mil06].**Graphics** [Ano19h, Ano20b, Ano20j,

Ano22j, Ano22-31, Ano23h, Ano24f,

BBB+98, CHGW17, Kru94, LS08, Mol14,

Sho01, Spr18a, Wyv98, Fal98, Ano19g].

**Great** [Bro10, Gri03b, SR14]. **Greatest**[Kid99e, Lee99b]. **Greece** [DMS18, Ges11a].**Greek** [de 59]. **Greeks**

[Ash76, Bal76, Dra76a, Nas75, Nor77, Ole77,

Smi78, de 74, Bro77]. **Grew** [Har22a].**Grips** [Joh06]. **Grosch** [Wei96b]. **Ground**[Hea02]. **Grounding** [TMS14]. **Group**[Hea05, Rus16a, Bro23]. **Groups** [SR14].**Growing** [WG19]. **Growth** [HS13]. **Grupo**[BLH12]. **Guatelli** [HC20]. **Guest**

[Alb14, Abb03, Ano09e, Bös08, CG06, CG07,

GB09, Gra12, Gra13, Gra02b, GR02, Mis07b,

Nyc96, Sei96, Yos15a, da 15b]. **Guichard**[Nik17a]. **Guidance** [Kid99d]. **Guide**

[Ano97b].

**H** [Cer03, Wal11]. **Haanstra** [Lee01c].**Hacked** [PB22]. **hackers** [Rus16a].**Hacking** [Hic19, Vag24]. **Haeff**[CH15, CHGW17]. **Haigh**[GH18b, RCP+13]. **HAL** [Kid97a]. **Half**

[Ano19b, Ano19q, Ano19-39, Mac03,

MPDT12]. **Halloween** [Fit02b]. **Hamlet**[Fei22]. **Hammer** [Ber06c]. **Hamming**[Lee98b]. **Hands** [Abb01]. **Hannibal**[Cly93]. **Hansen** [LH03]. **Happened**[Deu13]. **Happenings**

[Bau07, Bow94a, Bow94b, Bow95, Bow96a,

Bow96b, ORB+92, O'N92a, O'N92b, O'N93a,

O’N93b, O’N93c, O’N94, Spi17, Wei92a].  
**Hard** [Mah08]. **hardcover** [Ber03d].  
**Harder** [Asp93a]. **Hardman** [Nel22].  
**Hardware** [Ano20-37, Day23, GS04, Lis24].  
**Hardware-Oriented** [Ano20-37]. **Harlan**  
 [Ano171]. **Harley** [SRG02]. **Harold** [Hai18].  
**Harry** [Pol03]. **Hartley** [ORB<sup>+</sup>92].  
**Hartree** [Gon24]. **Harvard**  
 [RCP<sup>+</sup>13, Kos07, Paw22]. **Hashing**  
 [Ram97]. **Hasselblad** [San11]. **HCI**  
 [Mor20]. **Health** [Dav17]. **Hearing** [Mil11].  
**Heavens** [Cro03b, Mar10b, Mar10a].  
**Heavside** [Bab97]. **Hedgehog** [RAG<sup>+</sup>04].  
**Heights** [Ano15v]. **Heinrich** [Van10a].  
**Held** [Yam19b]. **Helen** [Cam03b]. **Hell**  
 [DV18]. **Helmut** [Wei98]. **Helped** [Dra18].  
**her** [Lee00a]. **Herbert**  
 [Kra22, Hey08a, Hey08b, Van09]. **Here**  
 [Ano14c, Sta20b, Rus13c]. **Heritage**  
 [PB93, Yam18]. **Hermeneutics** [Ack15].  
**HES** [Fei22]. **Hidden** [Cor24b]. **Hiding**  
 [GB13, Lap09]. **High** [Ges09a, KB21, Nof23,  
 VR22, WMB22, De 95, Gil97, WD98, Sou19].  
**high-level** [Gil97]. **high-speed** [WD98].  
**High-Tech** [KB21]. **Higinbotham** [Nyi11].  
**Hiltz** [Sub13]. **Hinds** [RAG<sup>+</sup>04]. **Hiroshi**  
 [CK08]. **Historian** [Ber09, Cer01, Smi11].  
**Historians** [Cer14, Cor16, Cor22, Ens04a].  
**Historical**  
 [Gri11a, Hol94, KH21a, KH21b, Kat97,  
 KBSW11, Mal02, MA96, Roe15, Smi01b,  
 Sub20, Swa05b, De 95, Goy96, Mac95, Sha97].  
**Historicizing** [Wu15]. **Histories**  
 [BT23b, Cor22, Hoc22, HP24, MH11, PN16,  
 RCP<sup>+</sup>13]. **Historiographic** [Geo08].  
**Historiography** [FC16, Pet20]. **History**  
 [Abb03, Ake04, Alb10, Alp15, AG12,  
 Ano97b, Ano99b, Ano03a, Ano06, Ano07,  
 Ano09e, Ano19f, Ano20-27, Ano20f, Ano20g,  
 Ano21h, Ano22g, Ano22h, Ano22i, Ano23e,  
 Ano23f, Ano23g, Ano24d, Ano24e, AKM08,  
 Asp01a, Asp07, AC16, BT23a, Bös08, BL12,  
 Bro18, Bro23, BYO<sup>+</sup>22, Bru17, BK01,  
 CK92a, CK01b, CK07a, CKGS08, CK14,  
 Cer02, Cer03, Cer14, CVRM15, Cha12,  
 Cho16, Con15, Cop11a, Cop11b, CHGW17,  
 Cor02, Cor15b, Cor15c, Cor16, Cor18,  
 Cow94, Dia12, DAGVR<sup>+</sup>15, Dow09, DMS18,  
 Dun21, Ens04b, Ens09, Ens18a, Ens18b,  
 Eps13, Fev13, FM93, Fra18, Ges07a, GR22,  
 GB13, Got23, GB09, GJ12, Gra20a, Gra20b,  
 Gra21a, Gra22, Gri03b, Gri07a, Gro93,  
 Gui99, HS13, Has16, HUA23, HC20, Hen05,  
 HIIT05, HII<sup>+</sup>05, Hic13]. **History**  
 [HP96, Hsu20, Hsu23, ICKDL99, Jes07,  
 Jes13, Joh20, Kat18, Kid96d, Kru09, KK22,  
 Lap09, LS08, Lea23, Lev05, Low09, Lun18,  
 Mag20, Mah04, Mah08, McD10a, McG12,  
 MR23, MF93, Med05, Mil11, Mis07a, Mis07b,  
 Mit08, NM09, Nor01, NL16, ORB<sup>+</sup>92, Phi12,  
 Pla16, Pol95, Pri21, PP21, Raj15, Ral04,  
 Ran14, Raw14, Ray02, Rob19, Roe17,  
 RAG<sup>+</sup>04, Row12, Sch06b, Shu06, Sjö11,  
 Sla08, SW96, Smi78, Spi18, Spi21, Spi23a,  
 Spi24a, Ste09, Tak96, Tri01, TMS14, Tym99,  
 WH17, Wei08, WP94, Wil98a, WT03, Win03,  
 Wir08, Wri98, Wu21, Yoo05, Yos01, Yos15b,  
 Yos16b, ZS23, da 15b, Ada96, Ano02e,  
 Bac98, Cor98, DFM<sup>+</sup>99, GC00, Kid99d,  
 Kid00h, KS97, Lee96, Smi00, SD98, Sze99,  
 Tym96, Zwe99, Léc21, Roj04b, RCP<sup>+</sup>13].  
**historyofscience.com** [Cer03]. **Hobby**  
 [Sta15]. **Hobbyists** [SS09]. **Hodgkin**  
 [Ano00b, Cro00a]. **Hoelzer** [Wei98].  
**Holiday** [Ges06a]. **Hollerith**  
 [Kis92b, Kis05]. **Home** [Was13].  
**Homebrew** [Pet17]. **Honeywell** [KS97].  
**Hong** [Smi16b]. **Honor** [Bow98a].  
**Honoring** [Ano22-30, Asp01a]. **Hook**  
 [Cer03]. **Hooligan** [ZS23]. **hopes** [De 95].  
**Hopkins** [GH18b, Mor03, RAG<sup>+</sup>04]. **HOPL**  
 [PP21]. **Hopper** [Pay14]. **Hospital** [VT21].  
**Host** [Fei11, Ano20-28]. **Hot** [MT06].  
**House** [Ano13b, Ano13c, Ano15b, Ano15c,  
 Ano15e, Ano15f, Ano15g, Ano15l, Ano15m,  
 Ano15a, Ano15n, Ano15o, Ano15q, Ano15p,  
 Ano15v, Ano16a, Ano16b, Ano16h, Ano16i,  
 Ano16m, Ano17f, Ano17m, Ano17u, Ano17y,



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**I.** [HW03b]. **IBM** [Roj04a, Sch17, Ake98, BBC<sup>+</sup>09a, BBC<sup>+</sup>09b, BJ03, Bro99a, BH95, Cor13, Cor14, Cor15a, Cor17, Cor18, Cor21a, Cor24b, End04, End13, Gan04a, Gan04b, Gil07, Gra02a, HS13, Hal18, HN13, Hen05, HIIT05, HII<sup>+</sup>05, Med08, Mey99, Per20, Rob16, Sch08, Spe98, Spi05, SD98, WC12, Yos13a, Hou21]. **IC** [CO12, LR12]. **ICA** [BLH12]. **Icon** [Hin18, Hou21]. **ICs** [Phi12, SL12]. **ICT** [HUA23]. **Ida** [Tom00b]. **Idea** [RAG<sup>+</sup>04]. **Identity** [Sub14]. **Ideology** [Kan21, Tym96]. **IDES** [Yos16b]. **IDIOM** [Bis98]. **IDMS** [Kru09]. **IDS** [Bac09]. **IEE** [Win03]. **IEEE** [Ano17a, Ano20n, Ano21a, Ano97e, Ano98b, Ano03a, Ano06, Ano07, Ano14c, Ano15m, Ano16h, Ano16i, Ano16g, Ano16j, Ano17n, Ano17l, Ano17m, Ano17k, Ano18k, Ano18j, Ano18l, Ano18m, Ano18n, Ano19a, Ano19x, Ano19y, Ano19z, Ano19-27, Ano19-34, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano19-33, Ano19-35, Ano19-36, Ano19-37, Ano20n, Ano20-29, Ano20-35, Ano20-30, Ano20-32, Ano20-36, Ano20-33, Ano20-31, Ano20-34, Ano20-37, Ano20-38, Ano21b, Ano21x, Ano21-28, Ano21-31, Ano21y, Ano21-29, Ano21-34, Ano21-37, Ano21-32, Ano21z, Ano21-30, Ano21-38, Ano21-35, Ano21-33, Ano21-27, Ano21-36, Ano22n, Ano22o, Ano22p, Ano22-31, Ano22-32, Ano22-35, Ano22-37, Ano22-41, Ano22-47, Ano22-33, Ano22-36, Ano22-38, Ano22-42, Ano22-48, Ano22-46, Ano22-39, Ano22-43, Ano22-49, Ano22-44, Ano22-34]. **IEEE** [Ano22-51, Ano22-45, Ano22-40, Ano22-50, Ano22-52, Ano22-53, Ano23o, Ano23p, Ano23q, Ano23-33, Ano23-37, Ano23-28, Ano23-31, Ano23-34, Ano23-38, Ano23-35, Ano23-29, Ano23-32, Ano23-39, Ano23-27, Ano23-41, Ano23-36, Ano23-40, Ano23-30, Ano23-42, Ano23-43, Ano24i, Ano24j, Ano24o, Ano24r, Ano24u, Ano24s, Ano24p, Ano24v, Ano24t, Ano24q, Asp92a, Asp92b, Asp92c, Asp93b, Asp93c, Asp93d, Asp93e, Bow98b, Bow98a, Mag20, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano20m, Ano20y, Ano20z, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano21t, Ano21u, Ano21v, Ano21w, Ano21h, Ano21i, Ano21j, Ano22m, Ano22z, Ano22-27, Ano22-28, Ano22-29, Ano22g, Ano22h, Ano22i, Ano22j, Ano23y, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i]. **IEEE** [Ano23j, Ano23k, Ano23l, Ano23m, Ano24h, Ano24g, Ano24n, Ano24d, Ano24e, Ano24f]. **IEEE-CS** [Ano17a]. **II** [Bac98, Car92, Lon08, Smi01a, TYD21b]. **III** [Bac98, Kir20, Lee00c, Lee01d]. **Illegal** [Tin11]. **Illinois** [BB02, Mil06]. **Illustrators** [Kid00c]. **Image** [Kru07, Vog17, Kir98]. **Images** [Tha17]. **Imagines** [Est22]. **Imaging** [San11]. **Imagining** [Mal02, Pet17]. **IMP** [VR22, WI14, WMB22]. **Impact** [Lee92i, Wei08]. **Implementation** [AD14, Sch23]. **Implementing** [HPR14b]. **Implications** [Hun12, KBSW11]. **Important** [Nof23, Cor98]. **impossibility** [Kid00g]. **Impossible** [TYD21a, TYD21b]. **Improvement** [Kid01d]. **IMS** [McG09, Pat09]. **Inc.** [DW20, WG19]. **Incidents** [Vag24]. **Inconsistent** [Gri10]. **Inconspicuous** [Sat11]. **Incorporating** [AKM08]. **Increases** [And22]. **Incredible**

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- [Ano21-31] **Anonymous:2021:ICSc**  
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- [Ano21-35] **Anonymous:2021:ICSI**  
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- [Ano21-36] **Anonymous:2021:ICSo**  
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**Anonymous:2021:Mc**

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- [Ano22h] **Anonymous:2022:IAHb**  
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- [Ano22-42] Anonymous. IEEE Computer Society has you covered! *IEEE Annals of the History of Computing*, 44(2):84, April/June 2022. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).



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[Ano22-53] Anonymous. IEEE Quantum Week. *IEEE Annals of the History of Computing*, 44(3):C2, July/September 2022. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

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[Ano22-55] Anonymous. Masthead. *IEEE Annals of the History of Computing*, 44(2):3, April/June 2022. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

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[Ano22-56] Anonymous. Masthead. *IEEE Annals of the History of Computing*, 44(3):3, July/September 2022. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

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[Ano22-60] Anonymous. Over the rainbow: 21st Century security & privacy podcast. *IEEE Annals of the History of Computing*, 44(3):79, July/September 2022. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

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- [Ano22-68] **Anonymous:2022:WAb**  
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- [Ano23m] **Anonymous:2023:ITSc**  
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**Anonymous:2023:ICSd**

[Ano23-31] Anonymous. IEEE Computer Society D&I Fund. *IEEE Annals of the History of Computing*, 45(2):69, April/June 2023. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

**Anonymous:2023:ICSi**

[Ano23-32] Anonymous. IEEE Computer Society D&I Fund. *IEEE Annals of the History of Computing*, 45(4):C2, October/December 2023. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

**Anonymous:2023:ICSa**

[Ano23-33] Anonymous. IEEE Computer Society has you covered! *IEEE Annals of the History of Computing*, 45(1):C2, January/March 2023. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

**Anonymous:2023:ICSe**

[Ano23-34] Anonymous. IEEE Computer Society has you covered! *IEEE Annals of the History of Computing*, 45(2):78, April/June 2023. CODEN IAHCEX. ISSN 1058-6180 (print), 1934-1547 (electronic).

**Anonymous:2023:ICSG**

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