A Complete Bibliography of Publications in *Computing in Science and Engineering*

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

04 March 2021
Version 1.78

Title word cross-reference

+ [Luo12]. 2 [CFA04, Hum07, OMKdSB11, YWC02]. 3
[Ano10, Ano15-38, Ano15-39, BB07, CCSS08, CY00, CHC+11, CS14, CS15, DiP18b, GWA+07, HMA00, HL00, LWF10, MJAK09, RV11, SDFS00, SYP08, SuL02c, Weg00, XHL+13, YWC02, YCK03, YCKK03, YaL10, ZZPC06, ZDW+07, ZCXM99]. 4
[WNZ17]. A = B [BS00a]. D [UZC+12]. k [AM19]. B _ NEW \leftarrow B_0 \oplus (B_1 \lor B_2) [SuL02b]. N [YB12]. \neq [SuL04c]. QR [Par00a].

- body [YB12]. - Vector [AM19].

1 [Bak10]. 11th [HPKS04]. 19

[AM20, BPMKC21, Com20, FGHW20, HP20, KKO+20, PHW+21, PQQ20, TGU21, VSB+21, WHG21, Wes21].


3 [KBLD08]. 39th [Ano15b]. 3D [Lew99b]. 3M [CW05d]. 3Ms [CW05b, CW05c, CW05a].
Abinit [PBD+11]. Abridged [FB04].
Academic [Bot16, LTD11]. Accelerate [WCH12]. Accelerated
Ben04, FPRK16, PHL+10]. Accelerating
EKCS12, KSB07, LFK+19, Men18, MSM13,
Thi12a, TCD+14, UZC+12, VMK20,
WZS+10, WOAEAG10]. Acceleration
AAAH+16, FKB+13, NLGNJ13, SKP+10].
Accelerator [AMS14, DLB+07, SG10].
Accelerators [Eis17, HGV+08, KW8+10].
Acceptance [PS17]. Access
ACKW01, AGC+16, DJ02, Gal11, GDDR16,
LPB13, PKST08b, PLW17, MMG+05].
Accessible [Oli13]. Accidental
BPH+13, HML+00]. Accuracy
LPCY19, PSS20]. Accurate [TM14].
ACE2 [XDK+20]. AceDB [STM99]. ACES
YLCZ05]. ACES-iSERVO [YLCZ05].
Achieving [OS04]. Acid [Ma03].
Acknowledged [KFMG20]. ACM [BTL19].
Acquisition [Azo06, Cas16, CN03, CC99,
LGW+17, MM16, NC03, PAN+16a,
PNL+16, PS17, Shi01a]. Acquisitions
DCWH07]. across [PS17]. Action [Lat16].
Active [GHKZ17, SD11, YYG+19].
Activities [Par12]. Activity
Muz19, NWP19]. Actuator [YMHQ19].
Ad [Ano18q, Ano18-39, Ano18-35, Ano18-36,
Ano18-40, Ano18-44, Ano20w,
Ano18b, Ano18-45, Ano18-53, Ano18-54]. Adaptation
GKG+15]. Adapting [STWK15].
Adaptive
Beh05, BMP+06, Bry99, GPZ+04, KRR+12,
MCAA05, NSLD99, VSG+02, WB03].
Adaptively [BW06]. Adder [GBPR11].
Adding [Mal00]. Additional
AAGH17a, AAGH17b]. Addressable
[Hi+20a]. Addressing
Bot16, FAFX20, HG02]. ADDS
[Got02a, Shi01a]. Adjoint [CL14, DAEJ18].
Adjoint-Based [CL14]. Adjustable
[Kal05]. Adjusting [KS13].
Administrative [Ano18z, Ano19y]. Adobe
[To08, To09a, To09b]. Adopting
[SWB00]. Adoption [PS17]. Adsorption
KM99, WWJH20].
Adsorption-Desorption [KM99].
Advance [Ano15-37, TMC+13]. Advanced
Ano18, DRR+04, Got15, Got16, MPR18,
Men18, MHC+18, MSD10, STG11, SNTL13,
TMMB18, Tow18, WZZ11, dJM18].
Advancement [Che15]. Advances
AMS14, CK09, ECK+15, GL99, GK18, HP14a].
Advancing
CJL+18, Gor13, KMB+08, LG01, PV00].
Advantage [Mil10]. Adventures [Nob00b].
Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Ano14-28, Ano14-31, Ano14-30, Ano14-39,
Ano14-40, Ano14-41, Ano14-42, Ano14-45,
Ano14-46, Ano14-47, Ano14-48, Ano14-49,
Ano15b, Ano15c, Ano15e, Ano15f, Ano15i,
Ano15g, Ano15h, Ano15l, Ano15s, Ano15t,
Ano15u, Ano15v, Ano15w, Ano15x, Ano15y,
Ano15z, Ano15-27, Ano15-35, Ano15-36,
Ano15-37, Ano15-43, Ano15-40, Ano15-41,
Ano15-42, Ano15-39, Ano15-45, Ano15-46,
Ano15-47, Ano15-48, Ano15-49, Ano15-50,
Adventures [Nob00b]. Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Adventures [Nob00b]. Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Advertisement [KM99, WWJH20].
Adsorption-Desorption [KM99].
Advance [Ano15-37, TMC+13]. Advanced
Ano15-46, Ano15-47, Ano15-48, Ano15-49,
Ano15-50, Ano15-51, Ano15-52, Ano15-53,
Ano15-54]. Adventure [Nob00b]. Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Adventures [Nob00b]. Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Advancement [Che15]. Advances
AMS14, CK09, ECK+15, GL99, GK18, HP14a].
Advancing
CJL+18, Gor13, KMB+08, LG01, PV00].
Advantage [Mil10]. Adventures [Nob00b].
Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Advancement [Che15]. Advances
AMS14, CK09, ECK+15, GL99, GK18, HP14a].
Advancing
CJL+18, Gor13, KMB+08, LG01, PV00].
Advantage [Mil10]. Adventures [Nob00b].
Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Advancement [Che15]. Advances
AMS14, CK09, ECK+15, GL99, GK18, HP14a].
Advancing
CJL+18, Gor13, KMB+08, LG01, PV00].
Advantage [Mil10]. Adventures [Nob00b].
Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Ano14q, Ano14t, Ano14-32, Ano14v,
Ano14z, Ano14-29, Ano14-27].
Advancement [Che15]. Advances
AMS14, CK09, ECK+15, GL99, GK18, HP14a].
Advancing
CJL+18, Gor13, KMB+08, LG01, PV00].
Advantage [Mil10]. Adventures [Nob00b].
Advertisement
Ano13g, Ano13h, Ano13p, Ano13n, Ano14d,
Ano14e, Ano14g, Ano14h, Ano14i, Ano14l,
Advertising [Day10b], Advice [Day09a],
Aerodynamic [LQZL19], Affects
[KRH+99], Affordable [Weg00]. Africa
[Amo15a]. African [Sca16].
African-American [Sca16]. After
[AM20, Key05]. Again [Cho07b, Sul07b].
Against
[FGHW20, HP20, VSB+21, WHG21, Wes21].
Age [Gar06, PQQ20, Thi02]. Agency
[Smi16]. Agent
[AM05, DYY+17, FGRS17, HXMC05, PI16].
Agent-Based [AM05, HXMC05, PI16].
Agent-Oriented [FGRS17]. Agents
[BO04]. Aggregates [KLS01].
Aggregating [DMXR+14]. Aggregation
[LLQ18]. Agile [ABC+14, PK18, SHPL12, VB08, Var08, FKB+13]. Agilent
[Tot01].
Aging [Dub15a, Fen06, dOMd0+04].
Agreement [Smi99c]. Aided
[Ass00, Day17a, Gig00, JS99, Lew02b]. Aims
[For01, TMC+13]. Ain’t [Dub08c, Sul04f].
AIP [Ano18c]. Air [EDJ+10, PAN+16b].
Aircraft [KNKP14, MM16]. Airspace
[Don03]. al [Lud13]. Alan [Lov04, Lov04].
Alert [SSG16]. Algebra
[FGP99, LPV00, Los03, Shi14, ZZPC06].
Algebraic [Fal06, RLRML04a]. Algorithm
[ALH15, ATG05, ACF18, BST+13, Bea00, BS00e, BS00d, DCC10, Ebr10, FAXF20, Lui06, MBS+00, OOB17, PL07, PSS20, Par00a, Pre09, Roc00, Rus03, SSP06, SR12, Thi13c, YYL+18, ZZYNH06, ZLTX19].
Algorithmic [Fra07]. Algorithms
[DS00, Eng09, MBS+00, MSS09, NVK09, Rag07, Sul00c, Wep15]. Alignment
[XHL+13]. All-Digital [Thi15a].
All-Optical [GBP11]. Alliance [CMN00].
Almost [Shi00a]. AlphaGo [Che16].
Alternative [ALH15, CF03]. Alternatives
[EHG01]. Am [Sul07a]. Amazon
[FPRK16, JRD+13]. Ambient [Dac16].
America [MHC+18, Smi00b]. American
[Ano18d, Ano18e, Ano18f, Sca16]. among
[Cho12]. AMP [Zhu16]. Analog [Az06].
Analogous [CB02]. Analyses
[Cor07, HE15, PLH+18]. Analysis
[ALH15, AAH+08, Ano15e, BAD+21, BT01, BKK15, BCC+99, CR15, DVP+17, Dal99, DH12, DLM04, DMR+09, DKW17, EHG01, GARS+20, GM02, GYJ120, GNB+09, HAB17, HBB08, HB08, JSNR11, JXY+19, JRP+17, KHE13, KLD07, LFC01, MRU+15, MAFM21, MB07, O’L06f, OMKdSB11, Ome06, PI16, PAN+16b, RD05a, RD05b, SSCN11, SCW+17, Shi99, SPB+20, Sul06b, TGP+06, TKN+18, TGEA09, VN09, VGM+09, WT12, YXC+09, YLZ+19, ZLW+19, SOV+13]. Analytical
[ABK+02, CS01a, DL00, O’L07a, O’L07b, SPW+13, Vla12, WGG16]. Anatomic
[CS07, LYC07]. Anatomical [GWA+07].
Anatomy [LCY8, YL05]. Anderson
[SS11]. Anecdotes [Got14a]. An erysm
[WNZ+17]. Angle [Nob02b, O’L12].
Animal [DL00]. Animating [Sil00, YCZ07].
Animation [LJCW06, WLCJ12].
Anisotropic [FL05]. Annals [Ano21c].
Anniversary [SCBT18]. Annotated
[Wep15]. Annotating [WGG16].
Announcing [Lee17]. Annual
[Ano99, Ano00a, Ano01, Ano02a, Ano03, Ano04a, Ano05a, Ano06, Ano08, Ano09a, Ano11c, Ano15b]. Anomaly [Smi99d].
Answer [Sul05a]. Antennas [PAN+16b].
Anthology [Nai15]. Antico coine [Gor06a].
Antiproton [SSK02].
Antiproton-Hydrogen [SSK02]. Any
[Pre09]. Anytime [Cho05b]. Anything
[Sul99b]. apNext [BST+16]. App
[Day14a]. App-Scale [Day14a]. Apparatus
[ZDW+07]. Applican [SCV10].
Applications [How12]. Application
[ACQ+20, Bas02, BAD+21, BHC+15,
DGK16, DD07, HRRS09, Lau05, Läu06,
LTG07, MM18, NdSS17, NdS17, SSCN11,
SCW+17, SKP+10, SB00, WY12, ZZS+19].

Applications
[Ano15b, Ano20z, ACF18, Ara99, BFF12,
BC05a, BC05b, Bry11, C JL+18, CF99a,
Che19, DBH+02, Di 11, DSK15, DYY+17,
DG12, Fox03d, GZC14, HPMJ12, JSNR11,
JPE20, KNG10, KVP+16, KVP+17,
KSM+17, KSB07, KTG08, KHC+07, LZZ17,
Mem16, MV20, MHC+18, OKS10, PF04,
PMFM14, PAN+16b, Rag07, Ran06,
RLRML04b, SBZ+08, SSP06, SKC02, SL03,
Shi07, SBZB13, SF11, SPB+20, Tec18,
WCAL14, WD06, ZLW+19, Wep15, Ano20a,
Ano20f, Ano21a].

Applied
[Coo14, MT00].

Apply
[Eng15].

Applying
[ST05, SFSK01, TX08, TMC+13, YLR02].

Approach
[ABNZ09, Ama00, AM05, Bas14, Bet99,
BZL+07, Che99, Che03, DPG+12, EGFL12,
FGR+07, FGRS17, Gan02, JML08, Kal19,
KC19, KPA+16, Kyr08, OL05c, RRN20,
RGD13, Rro06, SR12, Ste00, SKC05,
VMK20, VWP12, Wri16, WCH12, XKG05,
YMLJo6, YM14, ZS07, ZWYL20, GGD+05].

Approaches
[MVUSK14, NG20, Pat02, TGP+06].

Approximate
[WQLZ18].

Approximating
[BGDW04].

[ACQ+20, BAD+21, BHC+15,
DGK16, DD07, HRRS09, Lau05, Läu06,
LTG07, MM18, NdSS17, NdS17, SSCN11,
SCW+17, SKP+10, SB00, WY12, ZZS+19].

Applications
[Ano15b, Ano20z, ACF18, Ara99, BFF12,
BC05a, BC05b, Bry11, CJL+18, CF99a,
Che19, DBH+02, Di 11, DSK15, DYY+17,
DG12, Fox03d, GZC14, HPMJ12, JSNR11,
JPE20, KNG10, KVP+16, KVP+17,
KSM+17, KSB07, KTG08, KHC+07, LZZ17,
Mem16, MV20, MHC+18, OKS10, PF04,
PMFM14, PAN+16b, Rag07, Ran06,
RLRML04b, SBZ+08, SSP06, SKC02, SL03,
Shi07, SBZB13, SF11, SPB+20, Tec18,
WCAL14, WD06, ZLW+19, Wep15, Ano20a,
Ano20f, Ano21a].

Applied
[Coo14, MT00].

Apply
[Eng15].

Applying
[ST05, SFSK01, TX08, TMC+13, YLR02].

Approach
[ABNZ09, Ama00, AM05, Bas14, Bet99,
BZL+07, Che99, Che03, DPG+12, EGFL12,
FGR+07, FGRS17, Gan02, JML08, Kal19,
KC19, KPA+16, Kyr08, OL05c, RRN20,
RGD13, Rro06, SR12, Ste00, SKC05,
VMK20, VWP12, Wri16, WCH12, XKG05,
YMLJo6, YM14, ZS07, ZWYL20, GGD+05].

Approaches
[MVUSK14, NG20, Pat02, TGP+06].

Approximate
[WQLZ18].

Approximating
[BGDW04].

[ACQ+20, DBJ+20, MV20, SPB+20].

Argument
[Fox18].

Arithmetic
[Bai05, O’L06b, PPE00, Smi03].

ARL’s
[War18].

Arm
[DiP18b, Els21].

Array
[YBBP15, vdWCV11].

Array-Structured
[YBBP15].

Arrival
[OM03].

Art
[Bei12d, Gor05b, Sul10a].

Arterial
[VSE01].

Arteriovenous
[DKCL14].

Articles
[Ano20q, Ano20r, Ano20o, Ano20p, Ano21i,
Ano21h].

Assessing
[HPC20, LMC20, XHL+13].

Assessment
[FCT+10, KL07, SPB+20].

Assignment
[OL06e, OL07b, XXK+02].

Assimilation
[WZZ11].

Assessing
[HPC20, LMC20, XHL+13].

Assessment
[FCT+10, KL07, SPB+20].

Assignment
[OL06e, OL07b, XXK+02].

Assimilation
[WZZ11].
Automated [Dav12, Edd09, JPE20, KC09a, KC09b, KC09c, MSB+14, Ter11, XKK+02].

Automatic [GMPR11, MAC08, RGD13].

Automatically [XHL+13]. Automation [OSM+19, Ram18].

Autonomous [LL19, VVN18]. Autoregressive [RD05b].

Autotuning [YB12]. AV [HWPS16, HLS+16].

Available [CE18]. Avalanches [Boe00, KPD+99]. Avatars [YWC02].

Average [Smio06]. Award [Agn14, Ano15g, Ano16n, Ano16o, Ano16p, Ano17p, Ano20-36, Ano14y, Ano14-43, Ano16b, Ano17a, Ano18p, Ano18b, Ano18-43, Ano20-36].

Awards [Ano16c, Ano16d, Ano17b, Ano18h, Ano18q, Ano20n, Ano21g, Ano20-51, Ano20-52, Ano20-53].

Aware [GHKZ17, TFF05]. Awareness [MM12].

Away [ERS+03]. awesome [Day12f].

B [Ano17a]. Baaack [Dub06a]. Babbage [Ano16b, Ano18b]. Babel [Cho08b].

Back [Cho08b, Sch17b, Thi11a]. Backbone [XXK+02]. Background [BCJK99, BKK15, Tho99b].

Bacterial [Hin17a]. Bad [Sul04b]. Bags [Day10a].

Balance [Kul07, WSC+04, YYL+18].

Balanced [CS01a]. Balances [BLZ+07].

Bang [BKK15]. Bangs [MKM+14].

Bar [SSW21]. Barrier [JC02]. Based [ALH+20, AAGH17a, AAGH17b, Ama00, Ano16-40, ACF18, AM05, AGC+16, Aya14, BCC+09, CL14, CF99b, CYW01, DVP+17, DCWH07, DLL19, DLL20, DAKM16, FOdLVF+11, GW15, GPMSC20, GYJL20, GNB+09, HLS+16, HWPS16, HLYQ19, HGV+08, HSJ+19, HXMC05, J15, JLY19, Jq19, KSW+12, KMSH10, KPA+16, KVP+16, KBPW15, LFC01, Les16, LGJ+19, Luo12, Mill0, MWC+16, NLGJ13, NW13, NWP19, Osk07, PL07, PTML11, PCY14, Peo20, PQQ20, PI16, Pss09, PMW20, QSEQJFH20, Raf16, Ram18, SÜP+11, SSCN11, SSG16, SBW+19, SDCV10, SAK+13, Sny13, SR12, SGRK+18, TMMB18, Tec18, TKM+18, TNV+02, VMK20, WVP12, WLCJ12, WCC+02, WPM+12, Wan18, WCH12, WCC+19, YYL+18, ZDW+07, ZZC+19, ZWYL20, ZZYNH06, vGDS18, GGD+05].

Baseline [SBW+19]. Bases [RLRML04a, RLRML04b].

Basic [HW15, Rus01a, Rus01b, Rus02, Rus03, Tofo8, Shi90b]. Basin [WSC+04].

Basis [Lau02, LWG19, Ste12]. Bat [Don06].

Batch [LT08]. Batteries [Dub07].

Battle [FGHW20, WHG21]. Battlespace [CAP+10].

Bayes [PL07]. Bayes-Based [PL07].

Bayesian [BT01].

Be [Alt10, Ano16q, Ano16r, Ano19u, B502, Cho07e, Dub08a, Got01, Sul04f, Sul06c, Roa04].

Beacon [BHC+15]. Beam [SG00].

Bean [Dub05a].

Bean-Counted [Dub05].

Bearing [ZZC+19]. Beat [DC04].

Become [Lew00c].

Becoming [Day11b, Got14b].

Been [Day07b, Fla17, Sni09a].

Beetles [HP07a, O'L07b, Before].

Begin [Be09a].

Beginning [Be09a, TW17].

Behavior [CF99b, HS12, LLI1, Roh10].

Behavioral [Ano15e].

Behaviors [MSR15].

Being [AH07, Fox02c].

Belonging [Wri16].

Benefits [CMN00, Toot2b].

Bent [KCPFT02].

Bent-Double [KCPFT02].

Beowulf [Gbo05, VGM+09].

Best [ACG+20, BBC+11, CJL+18, DE17, For16a, NRG+17, Tuo00, Beh05, Ano19-31, Ano19-32].

Better [Ano17x, Ano17y, Ano17z, Ano17-27, Gor07a, Lan06, Wil06, Ano17-28].

Between [BHKW03, MGD+08, GRE99, OW01].

Beyond [Cus13, Lof03, Mei03, Pie04, SFC07, Sin18, The03, Thi11a, dSRT16, Ano18].

Big [AHS11, Ano14-44, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-38, Ano16-37, Ano18-27, Ano20j, Ano21d, BKK15, Bre17, Cus13, Day13d, HP15, Kus07, Lew01b, LL18,
Par00b, PSA14, SZM+13, SBZB13, SKC05, TB11, TX07, Var08. **Complexity** [Mer02, Sul00a]. **Component** [OMKdSB11]. **Components** [Dub02, Lan19, SL09]. **Composable** [Rob13]. **Compose** [Day11e]. **Composite** [JXY+19, SGW02]. **Composable** [Rob13]. **Compose** [Day11e]. **Composite** [JXY+19, SGW02]. **Compressing** [Ama00]. **Compression** [SSP06]. **Compressors** [GvdWT07]. **COMPSAC** [Ano19d, Ano19e, Ano20x, Ano20y]. **Computability** [Lau02]. **Computation** [Bai05, BC99, BSD07, Cho09a, Cho12, CS01a, Day07a, HLS+16, Hin20b, Hu07, Kar99, Kin16, Kir03, KRH+99, LG10, Liu11, Mei10, Ott16, PBSS14, PS02, Raf16, Rei02, SSC18, SJDV09, Ste00, Sul99b, TFF05, TB99, Win06, YMK11, vdWCV11]. **Computability-Based** [HLS+16]. **Computational** [AM18, Adl20, Aya07, Aya14, Bäc07a, Bar19, Bar20a, Bar21, BW14, BERT09, CK09, CL14, Car09a, Car12, CE14, CHC17, CB02, CG09, Cyb99a, DSPY05, Da99, Das00, Dav12, Day06b, Day11b, Day12a, DV99, DL00, DM12, DPG+12, DMR+09, DG12, Ebr10, El11, FGHW20, FG01, Fox02a, FKSS08, FWGB07, GC00, GPL09, Gor10, GCV08, Gor13, Got14b, GL20, HLS+16, Hin20b, Hu07, Kar99, Kin16, Kir03, KRH+99, LG10, Liu11, Mei10, Ott16, PBSS14, PS02, Raf16, Rei02, SSC18, SJDV09, Ste00, Sul99b, TFF05, TB99, Win06, YMK11, vdWCV11]. **Computations** [Bar20b, DM04, DKK05, FS12, Fu06, GBDW04, Mus20, PE09, SKC00, VCvdG+09]. **Computation** [Day09b, HRWS06, Has08, HRRS09, Sul06a]. **Computer** [AAGH17a, AAGH17b, Ano13i, Ano13h, Ano13j, Ano14z, Ano14-29, Ano14w, Ano14-27, Ano14y, Ano14x, Ano14-28, Ano15x, Ano15y, Ano15z, Ano15-27, Ano16t, Ano16q, Ano16u, Ano16r, Ano16z, Ano16v, Ano16m, Ano16s, Ano16-27, Ano16w, Ano16o, Ano16p, Ano16m, Ano16y, Ano17o, Ano17j, Ano17k, Ano17l, Ano17m, Ano17p, Ano17u, Ano17-31, Ano18t, Ano18u, Ano18w, Ano18x, Ano18s, Ano18r, Ano19t, Ano19u, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19v, Ano19s, Ano20z, Ano20-33, Ano20-34, Ano20-35, Ano20f, Ano20-46, Ano20-47, Ano20-51, Ano20-40, Ano20-48, Ano20-52, Ano20-41, Ano20-49, Ano20-44, Ano20-42, Ano20-43, Ano20-45, Ano20-53, Ano20-50, Ano21k, Ano21l, Ano21m, Ano21a, Ass00, BMP+06, BT10b, Boe00]. **Computational** [CF99a, CSS00, Day06c, Day17a, Dec15, FL99, FM02, FGP99, Gig00, GPMSC20, Gor08b, GH00, HRR02, HT99, Jav12, JS99, Kad04, KS00, KSP+99, KBPW15, LDAS19, Les16, Lew02b, LWT+13, LPV00, Los03, MMTD+17, MB99, New00, OW01, OLM06b, PKST08a, PKST08b, PKST08c, PR01, Ran06, Rec16, Saa09, SDA20, SW10, Sca16, Sch14, Sch15, SS06, Shi01b, Slo16, TS02, Tre99, Var08, Vla12, WMB20, WCP17, dKCAY00, Mat05, Ano18y, Ano19-29, Ano19-30, Wil01, ...
Ano20a, Ano20-72, Ano21a, Sny13].

Computer-Aided [Ass00, Day17a, Gig00, JS99, Lew02b].

Computer-Based [KBPW15].

Computer-Guided [BT10b].

Computer-Simulated [Tre99].

Computers [Ano15b, Bal17, CL01, Cra03, Cre99, Day12d, Day16b, Dun09, FHM99, GS13b, JT01, PSA14, SDA14, Ano20u, Ano20v].

Computing [Akl18, Ale18, Amo18, AMS14, Ano13b, Ano17c, Ano18-41, Ano19x, Bak10, BFF12, Bal15, Bal99, BT17, BPLW+19, BTL19, BCC+19, BCC+09, Biz16, BT01, Bog05, BC05b, BT17, BFF12, Bal15, Bal99, BT17, BW+19, BW01, DSSS05, DTL+17, DRR+04, DKW17, ES18, EDJ+10, EHG01, FKS15, FLV+09, FM13, For00, FG01, Fox01, Fox02b, Fox03b, Fox03c, Fra02, FPRK16, GHT+10, GR08, GB20, GHK+08, Gor05a, Gor06a, Gor07b, Gor07d, Got06, GS13a, Got14a, Got15, Got16, Got17, Gor09, HP14a, HP14b, HP20, HLRW17, HC99, HRAB05].

Computing [HJLH03, HK08, HGV+08, Hig04, Hin17b, Hin18c, HG02, HP04, HPML12, How12, JH16, JR10, JLR19, JCC+10, Jol12, JPMG08, KKO+20, KM99, KT08, KFS18, Kel10, KSB07, KTG08, Kin09, KWB+10, KT11, Kin12, KSI3, KLIQ19, KILZ13, Kup03, KBLD08, Lan19, LMPV13, LM08, Lat16, LUMM14, LA18, Lew02c, Lew02a, LZZ17, LAY04, Lun01, MP09, MB20a, MWE08, MR06, MMTD+17, Men18, Mes17, MMS08, MKM+14, Muc09, MSD10, NG20, NC03, Nob00a, Ol07, Osk07, PGF+15, Pap16, PA12, PLW17, PG07, PGH11, Pos11, Pos13, QL19, Rag07, Ram18, RVG+10, SA08a, SA08b, SBZ+08, SBB+15, SKC02, SBW+19, Sch18, Sh14, SES+11, SL99, SOH13, Sni00a, Sni16, SK+02, SS09, SLM12, St12, SGS10, Str10, ST99, Sul09a, Sza11, Ter11, Thi05, Thi09b, TP13].

Computing [Tho99a, Tho99b, Tho00, Tho01, Tow18, Tsa14, VB08, VPL18, VGD+11, VM15, WCGB05, WCAL14, WBP+19, WG15, WR00, Wri16, YLZ17, ZFS12, ZGR+17, ZAF+01, Beh05, Ano03, Ano05a, Ano12b, Ano13g, Ano14v, Ano15w, Ano16l, Ano16-30, Ano18-28, Ano19a, Ano19b, Ano20q, Ano20r, Ano20b, Ano20c, Ano20g, Ano20m, Ano20k, Ano20l, Ano21l, Ano21c, Ano21e].

ComputingEdge [Ano20d, Ano20e, Ano21b].

Concepts [BFS04, DR05c, HW15, PL02].

Conceptual [Ikk16].

Conceptualization [CGK+18].

Concern [CGZ20].

Concurrency [DS12, Vin12].

Concurrent [ZL09].

Condensates [KF03, STTV05].

Condensed [IBPV03].

Condensed-Phase [IBPV03].

Conference [Ano13c, OW01, Ano15b].

Conferences [Ano15i, BTL19, Dau99].

Configuration [Gob05, JS99, MWE08].

Conformational [BH02].

Congenital [yFZDY13].

Congress [Ano19z].


Connection [Com99].

Conquer [O'L04c].

Consencies [Day18a].

Consciousness [KNKP14].

Consensus [SETK05, YYL+18].

Conservation [AM05].

Considerations [SNCM16].

Considered [LJ19, TLG06].

Consilience [Kal99].

Consortium [HP20].

Constellations [Lo03].

DSSS05].

Constituents [FSD02].

Constrained [XXK+02].

Constructive [FL21].

Consumer [DC04].

Consumption [SPJ+14].

Contact [BW01].

Containers [HLRW17].

Contend [Su05b].

Content [Hin20a, TL04b, XLL04].

Contest [Don99, LSV+07, MHDM99].

Context [Dav12, GHKZ17, Luo12].


Contradictions [Dub07a]. contribution [MMG+05]. Control [BHL99, Bet99, CXC+20, Cho08g, Day14b, DDV+08, EHG01, HAB17, HLT09, KB07, LCC+19, OS03, PLW17, RSC+14, SZM+13, Var08, YMHQ19]. Controlling [ReK99, SGW02]. Convection [MGZ00].


Conversations [Cho12]. Conversions [CY00]. Convex [Muc09]. Convey [Bak10].

Convolutions [DR05a]. Cooperating [PGH+05].

Cooperation [Day13c]. Coordinates [HW15, Vor01a]. Coordination [YYL+18].

Cope [HHR02]. Coprocessors [BHC+15].

Copyright [Sto09]. Core [Ano16-47, Ano16-48, CWOL11, GHK11, HKB12, MS09, Ott16, Pes03, HKB12].

Core-Collapse [Ott16]. Coreal [VSG+02].

Corner [CF99a, CF99b, Che99, CY00, CYW01, DADY15, LRRK00, Weg00, ZCXM99].

Corps [Den16]. Correction [Nan11].

Correctness [CHM+20b, DLLZ20, RSZ+21].

Corrected [WROD16, Dub05b, Fos17].

Correlated [WIOEAG10].


Cost [CJTH+13, JPK01, SW10, TS02].

Cost-Effective [TS02].

Costs [BHL99, RLHGA+13]. Could [Gor07d, Peg12, Smi01a, WJ04].

Counted [Dub05a]. Counting [BOS07, Bei12a, Fen06, SSCN11, Cho08d].

Countries [AM18].

Coupled [CBS14, DLY+19, GIF+12, JSNR11].

Coupling [CFCD04, STG11, ZLTX19].

Course [Ass00, Aya07, Bog05, GDDR16].

Courses [BB20, Cho06d, Ful06, GL08, Pes03, Win06].

Courseware [Thi12a].

CPU [XDK+20].

Cover [Ano14n, Ano14o, Ano14q, Ano14s, Ano15r, Ano15n, Ano15o, Ano15p, Ano15q, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano17i, Ano17e, Ano17f, Ano17g, Ano17h, Ano18o, Ano18k, Ano18l, Ano18m, Ano18n, Ano19g, Ano19h, Ano19i, Ano19k, Ano19l, Ano19m, Ano20-32, Ano20-28, Ano20-29, Ano20-30, Ano20-31, Ano21j, Ano13f, Ano14p, Ano14r, Ano15m, Ano19j, Ano20-27].


COVID [AM20, BPMKC21, Com20, FGHW20, HP20, KKO+20, PHW+21, PQQ20, TGU21, VSB+21, WHG21, Wes21].

COVID-19 [AM20, BPMKC21, Com20, FGHW20, HP20, KKO+20, PHW+21, PQQ20, TGU21, VSB+21, WHG21, Wes21].

CPU [Lan04].

CPUs [Alt10, AAAH+16, WJLY08].

Cracks [Mar99b]. Craigslist [Day08b].

Crash [Bog05, YAA+00].

CREATE [HWPS16, PAN+16a, PNL+16, Deb18, Hin16, HLS+16, KPA+16, KVP+16, KVP+17, LGW+17, PAN+16b, PS17, WQT+16].

CREATE-AV [HWPS16, HLS+16].

CREATE-GV [LG+17].

CREATE-SH [WQT+16].

Creating [Guo12, OASLAB09, SL18, Tof09a].

Creation [PI16].

Creativity

D [Ano14y, Ano20-36, Sny13, Ama00, Ano15-38, Ano15-39, BB07, CCSS08, CFA04, CY00, CHC +11, CS14, CS15, DiP18b, GWA +07, HMA00, HL00, Hun07, LWF10, M jak09, OMKdsB11, RV11, SDS00, SYP08, Sul02c, WNZ +17, Weg00, XHL +13, YWC02, YCK03, YCKK03, YaL10, ZZPC06, ZDW +07, ZCXM99]. Damage [BP99, MSR +16]. Dantzig [Nas00, O’L05b]. Darnefest [Dub07b]. Data [AHL +11, AMCH07, ALH +20, AHS11, Ama00, Ano14-44, Ano16z, Ano16-27, Ano16-38, Ano16-37, Az006, Ben09, Ber99, BAD +21, BT01, BCG +99, BKK15, Bre17, Bry11, BCC +99, Bur18, CCESS08, CF03, Cas16, CHP +18, CHB19, CN03, CHC +11, CS18, Chr15, CC99, Col18, Con20, Cus13, CF13, Cus14, DVP +17, DPBS16, DBH +02, DM12, DH12, DCC04, Dra00, EUD15, EWN +13, EPHY18, Fei05, FAFX20, Fox03a, FB04, Gal11, GP15, Gor06d, GM02, GHN +16, GNB +09, HP15, Har04a, HW15, HKW03, Hin12a, HE05, HPMJ12, HSJ +19, IMK13, J15, JMEL08, KWT99, KL15, Kar02, KHC +20, KS20, LL18, Ma03, MRU +15, MAFM21, MM13, MO03, MR13, MDG +08, MSR15, NVK99, NC03, Nei08, NFCB +05, NSLD99, PARD13, PT14, PSR +20, Pcy14, PLW17, PGH +05, Poi10, PTH13, Pos16, RV11, RBK02]. Data [BP20, SSP06, SDCV10, SKV03, SRM +07, SCW +17, Sh01a, Shn06, SAK +13, SR13, SPB +20, STG08, Sza11, TAF +18, TR08, TL04a, Th12b, TNV +02, VGM +09, Vi08, VCGS11, Vor01a, WY12, WCAL14, WLL +14, Wan18, WJ04, Weg00, WZZ11, WGJ16, YKD +03, YBBP15, ZMM03, dSRT16, IK05, Ano16-28, Ano16-29, Ano18-27, Ano20j, Ano21d]. Data-Compression [SSP06]. Data-Driven [Col18, PSR +20, PGH +05]. Data-Enabled [PARD13]. Data-Intensive [AHL +11, Bry11, HPMJ12, NCN +05, Sza11]. Data-Loading [STG08]. Data-Management [NVK99]. Data-Scarce [RBK02]. Database [BO03, Gaa03, IKMK13, Sch01, SMI99f, STM99, SSBZ13, TSFG08]. Databases [Cho03, CC03, HBG +20, Lex00a, TSKG03, GGD +05, KBLE15]. DataCenterHub
[CHP+18]. Dataflow [PA12]. DataPort
[Ano19w]. Datasets [BBW+20, DLLZ19, DLLZ20, Luo12, RRN20, SPW+13].
DataSpace [GM02]. Dawn [LA18]. Day
[Wil16]. Daydreaming [Hin13a]. Days
[Day15b, Sha14]. dbX [SDCV10]. Dealing
[Beit2, Hin19]. Death [Cyb00b, Day07b].
Deblurring [CO15, NO03]. Debris [JJ15].
Debt [Hin15b]. Debugging [HMB+14].
Decimal [GBP11]. Decimation [PCY14].
Decision
[LLQ18, RSZ+20, RSZ+21, TGU21].
Decision-Making
[LLQ18, RSZ+20, RSZ+21]. Decisions
[Asr04, MBH14]. Decoding [WW17].
 Decomposition [FSED10, SCW+17].
 Decompositional [Ste00].
 Decompositions [GW15]. Deconvolution
[O’L05e, O’L05d]. Deep
[WNP19, NSLD99, Hsu06]. Defect
[LWT+13]. Defense
[HG02, OKS10, Pos07, PS17, PK18].
Deficient [Oli13]. Define [HH09]. Defined
[Smi99c]. Defining [COS+15]. Definition
[SB00]. Deformations [YCK03].
 Deformed [CCPS12]. Degeneracy [Bei02].
 Degradation [LGJ+19]. Degree
[Lan04, LGJ+19, P eo20]. Delays
[BPMKC21]. Deleted [Smi99f]. Delivering
[MWC+16, Wil16]. Delivery [Goo17, Sil02].
Dell [Kra03]. Demise
[Day11c].
 Demultiplexer [GBP11]. Demystified
[Thi13a]. Denoising [HH06, Tas00]. Dense
[VCvdG+09]. Density [ZMM03].
 Department
[LTD11, Leu17, Pos07]. Dependencies
[Dru20]. Deploying [JWL14]. Deployment [BHC+15]. Depth
[Wep08]. Derived [PMM+08]. Derminant
[BS00b]. Description [PMFM14].
 Descriptions [Eng09]. Deserve [Ano16s].
 Design [BKB20, Cho08g, DAKM16, Don03,
For01, Fra07, Gor06a, Ikk16, Jer13, JS99,
KF818, KB07, Kwa17, Lo99, Lnu01, MSS09,
NRG+17, PAN+16b, QSEQJFH20, SNCM16,
SLK+20, She07, SGRK+18, TJ14, WW17,
WQT+16, XZL+19]. Designing [DD07,
Duo02, GW15, SGW02, WZS+10, ZFS12].
 Designs [FMB+07, SW10]. Desktop
[PR01, TS02]. Desorption [KM99]. Detect
[KSSF11]. Detection
[Bai00, DM12, HEH+10, HSJ+19, LM07a,
LL19, TMMB18, WCC+19]. Detectives
[Gor05b]. Determining [BS00b].
Deterministic [CL12]. Detonations
[BPH+13]. Develop [ARAG19, SGRK+18].
 Developed [KMB+19]. Developing
[AM18, JWL14, KB09, KB04, MPR18,
RRAB06, WD06, YBD10]. Development
[ABC+14, BB20, BW14, CAS+07, DGK16,
Fox04b, GPMSC20, Gy099, Hin13c,
KMSH10, KVP+16, Lau08, MBB+09,
NCM+14, NC18, Peo20, Pos14, PK18,
PBD+11, PMW20, QL19, STWK15,
SHPL12, SPJ+14, MMG+05].
Developmental [SLK+20]. Developments
[SS06]. Device [HRRS09]. Devices
[KL10, YLZ17, Zhu02]. DEV5 [Zei17]. DFT
[Lew10]. Diagnosing [DRA11]. Diagnosis
[Gig00]. Diagnostic [WZS+10, WCC+19].
Dialog [FL21]. Diamond [CJ16].
 Diamond-Like [CJ16]. Dictionary
[WL7+14]. Did [Day18b, Hin20b, TL08a].
Diego [LC09]. Difference
[Bar11, HLYQ19, Sm101b, UZC+12].
Differences [O’L05g, PRM+07, WCP17].
Different [AK04, SL18, Wep15].
Differential [GWW09, JWKE06, JHJ01,
Lud13, MSL+07, MW14]. Difficult
[Hin15a].
Diffraction [Tre99]. Diffuse [SGA03].
 Diffusion [Mal07b, WLC01]. Digging
[Thi12b]. Digital [Ano13d, Ano14e, Ano14f,
Ano14g, Ano14h]. Cho08c, Gar06, Gor05b,
HBE+20, LVWK02, Lew90a, ML02, Mas06,
Nei08, Sza99, Tha08b, Thi15a, Toh08].
Dimension [ARO+11, GYL+17, Nob00b,
SL03, Vor01a, dSRT16]. Dimensional
[BBW+20, CN03, CS18, GWMG04, HKW03,
Maj03, MB99, NC03, Shn06, SR13, dSRT16].
Earthquake [CHC+11, DPG+12, EI11, FCT+10, Gor07b, HEB+11, HS12, JRP+17, KMM+11, McK11, PSR+00, RF12, TB11, UZC+12, WPM+12, YMK11]. Earthquakes [Day11d, STHR12]. Easier [Dav12]. Eastern [Ale18]. Easy [Dub08c, Sul02a, Tho99c, Vor01b]. Eau [Smi99b]. EC2 [JRD+13]. ECG [WGJ16]. Eclipse [WD06]. EcoG [SES+11]. Ecological [GYF+10]. Economist [Fla17]. Economy [Wes03]. Ecoregion [HH99]. Ecosystem [DBCN03, PGH11, Tow18, WCGB05]. Eddy [DJS13, YWMM04]. Eden [SOH13]. Edge [KSSF11, Ano19a, Ano19b, Ano20b, Ano20c]. editable [Hin18d]. edited [Lov04]. Edition [Dub04, Seg99]. Editor [Ano07, Cyb99b, Su99a, NLY99, Ale13, Asr04, Ber99, Cho03, Cyb99a, Dub07c, Dun09, Eth01, Got06, Kar02, Kax01, Kup03, MS99, Pos04a, Pos04b, Pos07, Qua18, Run00, Run05, Su09a, Win06]. Editor-in-Chief [Cyb99a]. Editorial [GS13a, HP14b]. Editors [Cyb00a, Cyb99c, Cyb00b, Kal99, Kil99, MBS+00, MHD99, Su09b, Su00c, Su00b, Su10a, BC05a, AM15, Ano04b, BC99, BS06a, BS05b, CE14, CN03, CZ07, CLZ13, Cho05c, Cho05d, CF13, Cyb00c, CS01b, DS00, FC09, FF03, For16b, HP14a, HS03, HG02, HP04, KS02, MF16, Mem15, NC03, NL99, PT14, PV00, PS02, RC01, SS02, Su01a, Su01b, Su03b, Su03c, Su03d, Su03e, Su04a, Su04f, Su04b, Su04c, Su04d, Su04e, TA05, TX07, Th05, TB99, TP04, TM00, VP04, VN99, Wai16, WR00, ZW19]. Education [Adl20, Ano16c, Ano16d, Ano17b, Ano18h, Ass00, Bä07a, Be12d, BB06, BERT09, But99, Day06b, Don99, FGP99, Gor13, GL20, HL00, Hu07, JHJ01, JPMG08, KMB+08, Lan06, LM08, Mar17, Mas06, MS07, PMK+08, Peo20, PP20, Roo06, SDA20, SDL+08, Thi12a, TX08, TMC+13, Tre99, YRT+00, YML06]. Educational [Chr99, MHD99]. Effect [Chr99, Don02, KS06]. Effective [KC19, PTML11, SNCM16, SGRK+18, TS02]. Effectively [Luo13]. Effects [PQQ20, ZMM03]. Efficiency [MM16]. Efficient [CLC03, Hoe10, SH10, SS06, SES+11, Yav06, ZJW08, ZLTX19, dKCAY00, vdWCY11]. Efficiently [CPdlF+12]. Effort [Fon15, Got02b]. Efforts [MB20a]. EICs [SCBT18]. Eigenpairs [GBDW04]. Eigenstates [Nob02b]. Eigenvalues [O’L05a]. Einstein [KF03, STTV05]. EJB [Lau05, Läu06, LTG07]. Elastic [MJAK09]. Elasticplastic [O’L04a]. Electrical [CB02]. Electricity [Ass00]. Electro [Roh10]. Electro-Mechanical [Roh10]. Electrocatalytic [WVP12]. Electrodynamics [Hei20]. electrograms [SOV+13]. Electrohydraulic [YMHQ19]. Electromagnetic [JLYL19, LFN+11, XZL+19]. Electromagnetics [KLS01]. Electron [KHC+07]. Electronic [BJ02, GBDW04, GS03, Kyr08, Lew99a, NG20]. Electronic-Textiles [NG20]. Electrons [SDA+14]. Electrostatic [CLC03]. Element [BBK20, Bas14, IHL+02, JXY+19, LFC01, WWJH20]. Elementary [Ono01]. Elements [Ara99, BGHR06, JC02, O’L05g, Pos16]. Eliciting [Rao16]. Elliptic [Don10]. ELM [LPCY19]. Elusive [Lew01a]. ELVIS [Ton03]. Email [Day15c]. Embedded [JR10, Lan19, NW15]. Embraced [RTSS14b]. Emergencies [Par16]. Emerging [Dec15]. eMinerals [BDCT05]. Empirical [SCW+17]. Emptor [DC04]. Emscripten [Zak18]. Enable
[BBM+15, Che16, Cho06c, CBS14, DVR+19, FL99, For01, Nev00, VP04]. Evolutionary [RRN20]. Evolvable [For01]. Evolving [Cho05c]. EWD [Su10a], Exa [BAD+21]. Exact [RLRML04a]. Exaggerated [Day07b]. Examining [BZL+07, PQQ20]. Example [Lud13, Pos16]. Exascale [Ano15-37, DKG19, GS13a, GS13b, JR10, JRP+17, Kal19, KS13, KLQ19, LMP+13, LA18, NdSS17, SBW+19, MB20a, Mes17]. Excellence [Kad04, NRG+17, NDS17]. Exceptionally [Thi11b]. Excited [Mor15]. Exhilarating [BBW+19]. Exploring [BPMKC21].}


Filtering [FL05]. Filters [Don06a]. Fin [Thi16]. Final [Su05a]. Finally [Aya14].

Finance [Far99, NL99, Sha99, Vir16, Wep15]. Find [Day17c, Don10]. Finding [MGFRL+12, SW10, Ton02a]. Findings [JH16]. Finite [Ara99, BBK20, Bas14, BGHR06, JXY+19, LFC01, NA07, OL05g, UZC+12, WWJH20, YL02].

Finite-Difference [UZC+12]. Finite-Element [BBK20, LFC01]. Finite-Volume [YLR02]. FiPy [GWW09].

Fire [Tha08b]. Fires [HMS+00]. Fireworks [Don02]. First [BB06, CHJ05, Day08a, Day14c, HWPS16, Slo16, Car09a].

First-Generation [Slo16]. First-Principles [HWPS16]. Fisher [FOdLVF+11]. Fit [Ano17x, Ano17y, Ano17z, Ano17-27, Ano16y, Ano17-28].

Fitting [Don10, LGW19, OL04b, Rus01a, Rus01b, Rus02, Rus03, SM17, TR08, WS99].

Five [KHS09, Poi10, Shi99]. Fixed [MM16].

Fixed-Wing [MM16]. Fixing [Day10b, Day15c]. Flagship [Sor19]. Flair [Wep08]. Flame [Tow09]. Flames [MRKK17]. Flash [RC00]. Flashes [RC00]. Fleet [MSB+14]. Flexible [DKCL14, GHKR11, KB07, VLAL14].

Flight [ACS15, Sim13]. Floating [Bai05, PPE00, TM14, YLZ+19].

Floating-Point [Bai05, TM14]. Flow [CCPS12, EPHY18, FPRK16, Ged16a, GvdWT07, GIF+12, HF04, JMFJ01, Jon19, KSW+12, Ma16, NW13, RSC+14, TGEA09, VCGS11, WT12, YWMM04].

Flowers [Su05b]. Flowfield [HWPS16]. Flowfields [MM04]. Flows [DJS13, FMKS08, GF04, LUMM14, MP09, NTW07]. Fluid [Ben04, CFCD04, Jon19, JCP514, KS12, KSM17, LUMM14, LWSK07, LCY+04, Liu06, MB17, MB20b, Ork09, Sch20, SFSK10, SKC05].

Fluid-Structure [LCY+04]. Fluids [Bry99]. Focus [Ano02b, Ano14a, Ano14j, Ano14k, Ano14m, Ano15j, Ano15k, Ano15l, Ano17d, EYL+17, For00, For01, Lew00a, Lew00b, Lew00c, Lew01a, Luo12].

Folding [Han03, Jav12, SK01]. Following [OL06].

Force [JLYL19]. Forecast [Gor07b, SS09]. Forecasting [Lum07, STHR12]. Forecasts [DWC+11, Gan02, KILZ13, ZQY+11].

Forefront [GLS11]. Forests [BCN03].

Forever [Smi99]. Forgeries [Gor05].

Form [Yas17b]. Formal [KKP14]. Formalism [GW15]. Formalism-Based [GW15]. Format [Ben09, Poi10].

Formation [CDKF15, SETK05, SNTL13].

Formats [CY00]. Former [SCBT18]. Forth [Nob00b].

Fortran [Mol12, CRDO16, DNG07, DY99, Fos17, GRE99, JPE20, Pad00, PMM10, Re03, RX12].

Fortranning [Mol12]. Forty [WG15].

Forum [KFMG20]. Forward [Cho05].

Foster [For99]. Fostering [Lan19, Tur14].

Fourier [DR05c, DR05b, RD05a, RD05b, CS18, Cor07, Mus20, Tre99].

FP [DPP+01]. FP-LAPW [DPP+01].

FP7 [Ale18]. FPGA [BMP+06, BCC+09, HG+08, NLGNJ13, SDC10, SG10, TJ14].

FPGA-Based [BCC+09, HG+08, NLGNJ13, SDC10].

FGPAs [AAAH+16, VMK20]. Fractal [ARO+11].

Fracture [BP99, Han05, ReK99, VN99, VKN99, XHL+13]. Frame [Wil01].

Framework [ALH+20]. APC+19, CB06, DL00, EP10, GBDW04, GYL+17, GRS08, GSB+12, HC17, Ikk16, KRR+12, KFS18, KSM17, VLAL14, McK11, PGC21, Ram18, RPEB12, RPEB14, SBB+15, SNT13, Sto09, VCGS11, ZFS12, HDB+04].
Frameworks [HMB+14]. Frankenstain [Shi00c, THGS07, XKG05, dKCAY00].
Free-Energy [dKCAY00]. Freedom [Ano15-44, Lew00b]. Freestyle [TR08].
Frequency [CPdlF+12, PAN+16b]. Frequency-Domain [CPdlF+12]. Fresnel [Tre99].
Friendship [Sim13]. Front [Ano13f, Ano14n, Ano14o, Ano14p, Ano14q, Ano14r, Ano14s, Ano15r, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano17e, Ano17f, Ano17g, Ano17h, Ano18o, Ano18k, Ano18l, Ano18m, Ano18n, Ano19h, Ano19i, Ano19k, Ano19l, Ano19m, Ano20-32, Ano20-27, Ano20-28, Ano20-29, Ano20-30, Ano20-31, Ano21j, SG10, Ano19j]. Front-Side [SG10]. FRONTERA [GARS+20]. Frontier [Gue18, Kus07, SP18]. Frontiers [HP14b, HJLH03, Post04a, Post04b]. Fuel [SP18]. Fuel-Engine [SP18]. Full [HLYQ19, Nob02a]. Fully [ZZC+19]. Fun [Day11e]. Function [BHC+08, Don10, KEF07, LWG19, NSR10, Rus01a]. Functional [GW15, Hin09, Kar99, LT09, MB07]. Functions [LTD11, MAC08, Rus01b, Rus02, Rus03, Tho99b, Tho00]. Fusion [ECK+15, HSL+19, Ma16, TWE14, SMM+11]. Future [AHL+11, Bec15, Cho07c, Cho08b, CW20, Dau99, Day06c, Day12a, Day19a, DSSS05, Dub07f, Dub07d, EKLY07, GB20, Got15, Got16, Hin13b, JH18, LVWK02, LL18, Mar17, Pos11, Rei03, SPS15, Smi00d, Suh04f, Thi11a, Thi13a, Thi15a, Thi15b, TW03, Zha11].
FutureGrid [JRD+13]. Fuzzy [CS01a, DKCL14, Fra07, GYF+10, LLQ18, ZLW+19]. Fuzzy-Neural [Fra07]. FVDM [HLYQ19]. FVTD [SWPB00].

Game [BB20, Les16, TMC+13].

Game-Based [Les16]. Gaming [Day12b]. Garmin [Tou02a]. Gas [Par16, Sch20].
Gateways [WDC18]. Gauging [Day08a]. Gauss [Cor07, Nob00a, Ome06]. Gaussian [Bal99, Nan11]. Gay [Wri16]. Gel [dA03].
Gen [Smi00c]. Gender [Les16]. Gendered [Bot16]. Gene [YCK03].
General [MW11a, SSC18, YLR02, Zel17]. General-Purpose [SSC18].
General-Relativistic [MW11a]. Generation [CHJC05, Ged16a, HP15, MAC08, McMo09, RGD13, Sni00c, SPJ+14, Thi04, Thi15c]. Generic [Kyr08, MM18, SL09, IK05].
Getting [GB09, KSB07, MAFM21, O’L05, Wil06].
Gismo [BCA+00]. Glacier [BZL+07].
Glass [YZZ04]. Glasses [BHKW03, DCC10]. Glast [BCA+00].
Glimpse[Hin13b]. Glimpses [Sin18, Ano18]. Global

BB07, BM+15, CNO99, ECK+15, KE05, LAY04, MRNT17, SH10, TR08, TL02].

Goal [SBW+19]. Going [Su02c]. Golomb [Men16]. Gone [FL21]. Good [Bei10c, Dub99, Po10, Sul04b]. Goodbye [Dub08b]. Google [Cha08]. Googol [Mem16]. Gone [FL21]. Good [Bei10c, Dub99, BS06a, Ber99, BC05a, BC05b, CE14, CN03, CZ07, CLZ13, Cho03, CF13, CS01b, D800, Dub07e, Dun09, Eth01, FC09, FF03, For16b, Got06, GS13a, HP14a, HP14b, HS03, HG02, HP04, Kar02, Kax01, KS02, Kup03, MF16, MR06, Mem15, MS99, NC03, NL99, PT14, PV00, PS02, Pos04a, Pos04b, Pos07, F018, RC01, Run00, Run05, SS02, Sul09a, TA05, TX07, Thi05, TB99, TP04, TM00, VP04, VN99, Wai16, WR00, Win06, ZW19]. GUI [OASFLAB09].


H5N1 [Rao16]. Hackathons [CJL+18]. Hadron [Mor15]. Hail [Bei12b]. Hair [YZC+13]. Halos [Jon15]. Hand [Ano15i, YHWY05]. Haptics [EPHY18].


Hesitant [LLQ18, ZLW+19]. Heterogeneity [BB+13]. Heterogeneous
Day11d, Day15a, Day16a, FGRS17, GHKZ17, Kil99, MHDM99, NLV99, Rob06, Shi07, Shi01a, Smi99b. **Internet-of-Things** [FGRS17]. **Interplay** [BHKW03]. **Interpolation** [WLJ12]. **Interpretive** [CNC10]. **Intersection** [Sha99]. **Intersectional** [Wri16]. **Interval** [LLQ18]. **Intervals** [TGP+06]. **Interview** [Mar99a, Sha99, WM00]. **Intracardiac** [SOV+13]. **Intracranial** [WNZ+17]. **Introducing** [KNS18, Thi09b]. **Introduction** [Asr04, BC99, BS06a, Ber99, Bli02, BC05a, BC05b, CN03, CZ07, Cho03, CS01b, DS00, Dub07e, Dun99, Etoh01, Fal06, FC09, FF03, Got06, HS03, HG02, HP04, Kar02, Kax01, KS02, Kup03, LFK+19, MR06, MS99, NC03, NL99, PV00, PS02, Pos04a, Pos04b, Pos07, RC01, Run00, Run05, SS02, ST99, Sul09a, TA05, TX07, Tes15, Thi05, TB99, TP04, TM00, VP04, VN99, War18, WR00, Win06, ZW19, Ale13, AM15, CE14, CLZ13, CF13, For16b, HP14a, MF16, Mem15, PT14, Qua18, Wai16]. **Introductory** [Ass00, Aya07]. **Invasion** [Ebr10]. **Inverse** [XBK10]. **Inversion** [CL14]. **Inverter** [LCC+19, WCC+19]. **Investigations** [CHB19]. **Involve** [DM04]. **Iodine** [MM04]. **Ions** [Seg99]. **IPython** [PG07]. **IRI** [Ano20-54]. **Iron** [BBK15]. **Irony** [Day08b]. **Irregularities** [Ks06]. **iSERVO** [MMG+05, Run05, YLCZ05]. **Isn’t** [RMX12]. **Isosurface** [PCY14]. **Isosurfaces** [BB07]. **Isotopes** [Har18]. **Issue** [Ano15e, Ano15f, FT08, JD03, O’L05g, O’L07b]. **Issues** [HBB08, TLD02]. **Istanbul** [DSPY05]. **Iteration** [vdl00]. **Iterative** [O’L06c]. **IV** [Rus03, RD05b]. **Ivory** [Far99]. **J** [Sny13, Rei13]. **J2EE** [Lau05, Läu06, LTG07]. **Jackets** [Day10a]. **Janus** [BCC+09, Smi00a]. **Japan** [Sor19]. **Japanese** [For99]. **Java** [Esq11, Fox03d, Has12, HRAB05, PTML09, PTML11, Thi02, Vi08, XYC05]. **Java3D** [Vor01b]. **JavaScript** [DiP18a, DiP18b, TAF+18, Zak18, dJM18]. **JHelioviewer** [MF+09]. **jLab** [PTML09]. **Job** [Ano14l, Ano14j, Ano14k, Ano14m, Ano15j, Ano15k, Ano15l, Ano19-31, Ano19-32]. **Jobs** [Ano13k, Ano18-29, Ano19v, Ano20-50, Ano21o, SOH13]. **Johnny** [DEK03]. **Johns** [KBLE15]. **Joint** [JXY+19]. **JOSS** [KNS18]. **Journal** [Ano20-33, Ano20-34, Ano20-35, Ano21k, Gaa03, TS10, KNS18]. **Journal-Database** [Gaa03]. **Journals** [Day08a]. **Joy** [Su00c]. **JPEG** [MFD+09]. Jr. **Julian** [Slo16]. **Jump** [Che99]. **Jungle** [Ben09]. **Jupyter** [WBB+20]. **Just** [Beil1b, Cho05b, Cho06c, Day15d, ERS+03, Gor06d]. **K** [Sny13, Rei13]. **K2** [SDA20]. **Kaleao** [Goo17]. **Keeneland** [VGD+11]. **Keep** [Ano15h, Ano19-28, Ano19-27, Ano20-57]. **Keeping** [Cus14, Lew01b]. **Kernel** [Ama00, BKB20]. **Kernels** [DADY15]. **Key** [LL18, Sch99]. **Kind** [BC02]. **Kinetics** [MK16]. **Kink** [LH06]. **Kiosks** [Day18c]. **KMAX** [Goo17]. **Knee** [ZCXM99]. **Knights** [DADY15]. **Know** [DC04, Hin20b, MAFM21, O’L05g, SHPL12, Su03a]. **Knowing** [Day13c]. **Knowledge** [GBS+12, KB04, KS01, QEJIFH20, Ano17-29, Ano17-30, Ano18-42]. **Knowledge-Management** [GBS+12]. **Kriger** [XZL+19]. **Krylov** [vdl00]. **KSS** [KSF11]. **Lab** [CC99, DDV+08, MVUSK14]. **Lab-Data** [CC99]. **Label** [GYL+17]. **Laboratories** [AM15, Sil02]. **Laboratory** [DZG+05, KBLE15, KT08, Shi01b]. **LabView** [Shi01a]. **Lake** [VNNV18]. **Landau** [Osk07]. **Landscape** [Cho06b]. **Landslides** [MB99]. **Lane** [LL19]. **Language** [Cho12, Gor06b]. **Languages** [BFS04,
DS12, Hin18c, JWL14, MMG08, PMM+08.
LAPW [DP+01]. Large [Ama00, CS14, CS15, DS13, DMXR+14, Eis17, GL99, Gob05, HHF+14, HMB+14, JPE20, Jon15, KMSH10, LWF10, LCY+04, Luo12, Ma16, MWE08, MFD+09, PCY14, Sah03, SBH+00, SKNV03, Ste99, TNY+02, VKN99, Wes21, YWMM04, ZJW08].
Maximizing [CF13]. Maximum
[HSJ+19, PA12, Sch16]. MaxLike
[SMM+11]. May [Dub08a, Smi99a]. Mayavi
[RV11]. MCALab [FSED10]. MDBN
[GYL10]. MD [RCD13]. Me
[BS99a, Day13c, Dub06b, Dub07c].
Meandering [O’L06c]. Means
[O’L06f, Pie04]. Measure [CRDO16].
Measurement [Tou01, VSG+02].
Measurements [O’L13]. Measures
[YLZ+19]. Measuring
[COS+15, DYY+17, SBZ+08]. Meatspace
[Day12b]. Mechanical [JS99, Roh10].
Mechanics [Ara99, BC03, BCB07, Ben00,
Can99, Com99, CFC04, Gut01, JCP14,
LWS07, Mal00, MSR+16, Ono01, Reb99,
Sch16, Sih00, Tho09c, XCY+09].
Mechanism [Cho08g, XDK+20].
Mechanisms [WBB+20]. Mechatronics
[Cra03]. Media [CHM+20b, CHM+20a,
Day13f, KM99, Sah03]. Mediated
[WLC01]. Medical [CLZ13, Eng15, Gih00,
Gor08c, Liu12, PL07, QPC07, TMC+13].
Medicine [WR00]. Mediterranean [Ale18].
Meep [LFN+11]. Meets
[Bei09c, CT00, Fox02a, Ha99].
Membership [An013n, Ano13o, Ano14-39,
Ano14-40, Ano14-41, Ano14-42, Ano17x,
Ano17y, Ano17z, Ano17-27, Ano18-35,
Ano18-37, Ano18-36, Ano18-46, Ano17-28,
Ano17-29, Ano17-30, Ano18-42]. Membrane
[FGP99, Wol16]. Membranes [TLR10].
Memory [AAAH+16, DAEJ18, DPP+01,
O’L06b, PK08b, VM15]. Mentoring
[Bar11]. Mercer [Mar02]. Mercury
[MW14]. Merger [Sm19]. Merging
[WC17]. Merit [EVL+17]. Merwin
[Ano14-43, Ano17-31, Ano18-38]. Mesh
[Bry99, LW06, MCA05, NSL09].
Meshes [O’L06d]. Mesoscale [DGR+05].
Message [BBG+01, Fox02b, Vn12].
Messages [Bau08]. Metadata [Fox03a].
Metal [KLS01, WM00]. Metamorphic
[KC19, LS02]. Metaphysics [Cho07a].
Metaprogramming [MM18]. Method
[Ama06, Bas14, BS06v, BGHR06, CL14,
CL03, DAEJ18, Fra07, GH00, IHL+02,
LGJ+19, Nas00, RK05, Rei02, WNZ+17,
WCC+19]. Methodology
[APC+19, TKM+18]. Methods [ATG05,
BW06, BS06a, Co14, Fel00, GS03, GPC08,
HMB+14, JSNR11, JH01, KS20, MS07,
O’L06c, O’L06d, OL06h, Ork09, Oug03,
PP20, SOS+00, STB03, TK06, TLD02,
Wep08, XBB10, Yav06, YLR02, Seg09].
Metropolis [BS00c]. MFiX [BAD+21].
MFiX-Exa [BAD+21]. Michelson [Ste02].
Microanatomy [DZW+05]. Microarray
[RRN20]. Microbiology [Nai15].
Micromagnetic [Zha16]. Micromap
[WCC+02]. Microprocessor [WJL08].
Microscopy [BDF+20, SRM+07].
Microsoft [Sm19]. Microstructural
[BP99]. Microstructure [CBS14].
Microstructures [LFC01]. Microwave
[BC1K09, BKK15, CPDLF+12]. Middle
[Les16, Sca16, Th102]. Middleware
[MBM+19]. Might [PK18]. Migrating
[TSG03]. Millenium [ZAF+01].
Millennium [Cby00c]. Millisecond
[Fox04b]. Mills [An014y, Ano18p, Ano20-36].
Mind [Day12d]. Mind-Reading [Day12d].
[JCC+10]. Minimization [BOS07]. Mining
[FAFX20, GM02, Kar02, KNP03, KJ04,
RBK02, TNN+02]. Minor [GCV08].
Minority [HG00]. Mirrors [Day16d].
Misinformation [Day19a]. Mission
[Cho05c]. Missions [EVL+17, MSB+14].
Mitigation [KMM+14]. Mixed
[Hin18a, Tou01]. Mixed-Signal [Tou01].
Mixing [Tan06]. Mobile
[ACQ+20, Ano14-47, Ano14-48, BB20,
DYY+17, GHKZ17]. Modality [KEF07].
Mode [SCW+17, SD11]. Model
[ASM+14, ACF18, CPDLF+12, DJ02, GB20,
GV15, GWA+07, Gyu99, HLYQ19,
HSJ+19, JCC+10, JLLY19, Lan06, ML02,
Model-Order

Models

Modernization

Modify

Molecular-Dynamics

Molecular-Scale

Mol

Monte

Morse

Motion

Motions

Mou

Mouse

Mouth-Structure

Movable

Multiagent-Based

Multiagent

Multiagent-Based

Multiagent-Based

Multicomputers

Multicore

Multicriteria

Multicellular

Multicharacterization

Multidimensional

Multigrid

Multilevel

Multimillion Line

Multimodle

Multiperspective

Multiphase

Multiphase-Flow

Multiphysics

Multiple-Choice

Multiple-Precision

Multiple-Select

Multiscale
[BPH+13, FMKS08, GZC14, GNB+09, Hym05, IHL+02, LVLA14, MM18, MCAA05, NBK+01, PAF08, Pey11b, SNCT13, SFSK01, SKC05, XKG05]. Multisensor [HSJ+19].
Multisensory [Har04a, Lof03, Roh04]. Multitask [GVB15]. Multiterabyte [TSKG03]. Multithreaded [SZM+13].
Multitier [PSS20]. Multivariable [XZL+19]. Multivariate [AMCH07, DH12, HH99, JMELO8, Liu15, SETK05].
Mutation [HK09]. My [Bei12c, Ben09, Day06b, Day10c, Day10d, Day14c, MM14, TL08a, Toh08].
myComputer [Ano13p]. myCS [Ano17w, Ano18-39, Ano18-40]. MyDB [LT08].

N [Mol12]. Naked [Lau08]. Nallatech [SG10]. Nanobiological [FMKS08].
nanoHUB.org [KMB+08]. Nanoparticles [KLS01]. Nanophotonics [BVB+07].
Nanoscale [SKL10]. Nanoscience [RC01]. Nanoscope [Kyr08]. Nanostuctured [KNG10, PZJS10, VWP12].
Nanosystems [NK+01]. Nanotechnology [KMB+08, RC01, SMC01]. Nanotubes [SMC01]. NASA [DM12, LAY04, MB11, MR13, MM14, Men16, SM17, SNCT13, Sim13, SV14, YLR02]. National [Tow18, Ano18-41, ES18, LBS14, Tou03, WG15].
Natural [Asr04, FWGB07, HBG+20, KB04, MT00, TL04a, YHW05]. Nature [NTW07, Run03, Rus01a, Rus01b, Rus02, Rus03].
Naval [PAN+16b]. Navy [MSR+16].
NavyFOAM [KSM+17]. Near [CW05e, Cho08c, JRP+17, MM13, ZMM03, Zei17].
NEEShub [HEB+11]. Negative [Bot16].

NERSC [BKK15, ECK+15, YBBP15]. Nerve [Has08]. NEMS [MSR+16]. Nest [Dub05c]. Network [Cas16, NCB+05, Put16, ZZS+19, ZGR+17, ZZC+19, ZZYNH06].
Networking [ALH15, Ano18-43, Ano18-44, BMC99, Hoe10, Thi06]. Networks [ABK+02, Day13c, Fox01, Gor06c, JLP+10, LTD11, LWG19, P116, Seg99, ZYKG04].
Neural [CWOL11, Fra07, Gor06c, JLP+10, ZZS+19, ZZYNH06]. Neurocognitive [Muz19]. Neuroimaging [SL03].
Neuroinformatics [MWC+16].

Neuromorph [Boa17]. Neuronal [Seg99]. Neuroscience [BFF12]. Neutrino [Cho07b]. Never [Dub07d]. News [BCC+99, Bur99, CC99, GJ03a, GJ03b, Gor03, Gor04a, GH04, Gor04b, Gor04c, Gor05c, Gor05d, Har04b, JG03, Jac03, LG03, Nob00b, Shi99, Shi00c, Shi00b, Shi00d, Shi00a, Shi01a, Tou00, Tou01].
Next [Ged16a, HP15, McM09, Sul02c, Tha14, Thi04, Thi15c, Wil17]. Next-Generation [Ged16a, HP15, McM09]. Nice [Hem10].
NMR [EWN+13, XKK+02]. No [Day09b, Ome06]. NOAA [War18]. Nobel [Day12e]. node [YLCZ05]. Noise [ATG05, GLS07, KPD+99, Kus06b].
Nominate [Ano19-38]. Nominations [Ano14y, Ano15g, Ano16c, Ano16d, Ano16n, Ano16o, Ano16p, Ano17a, Ano17b, Ano17p, Ano18b, Ano20n, Ano20s, Ano20-36, Ano21g].
Nominees [Ano15c, Ano16c, Ano16d, Ano17b].
Nonconventional [ZAF+11].
Nonequilibrium [MCAA05, dKCA00]. Nonlinear [Bee00, FL05, JCC+10, LWG19, MS07, Rus02, YCKK03, ZB04].
Nonstationarity [ZB04]. Nonuniformly [HH06]. Nonvolatile [VM15].
Norm [OL05d]. Normal [KS13]. Noise [LQZL19].
Note [ACF18, NSR10]. Notebooks [WBB+20]. Novel [CXC+20, FMB+07].
KTG08, Kin09, LCC+19. Novelty
[Cho06c]. Novice [Sma12]. New [GLS11].
Novo-G [GLS11]. NP [Sul04c]. NSAP
[LZZ17]. NSF
[Dbh15b, Got15, Got16, Got17, Mor15].
NSF’s [WDC18]. Nuclear [Liu11].
Number [ABNZ09, Ano05a, KM12, Peg12].
Number-Crunching [Peg12]. Numbers
[Bau08, Hil15]. Numerical
[BKB20, CBS14, Die12, Ful06, GRS08, HT99,
Hu07, KL07, Lud13, LL11, MGZ00, Moy06,
MSS09, Nob02b, Pes03, Pey11a, Pey11b,
Pey11c, Ram18, RK05, SA08a, SA08b, SS11,
STTV05, Sn99b, Sul06b, Tur14b, WWJH20,
XBK10, ZZYNH06, vdWCV11]. NumPy
[PSSP15, vdWCV11]. Nvidia
[HKB12].

Object
[BJ02, Fox02c, GRE99, TSKG03, YaL10].
Object-Oriented [BJ02]. Objective
[RRN20]. Objects [And11, Läu08, RMX12,
To09b, IK05, Tob05]. Obscure [Shi00a].
Observations [The03]. Observatories
[BHF+08]. Observatory [Run05].
Observer [Shi02b]. Obtaining [Azo06].
Occasion [Pre09]. Occupation [HSJ+19].
Ocean [BHF+08, WHM+02].
oceanographic [IK05]. off [NLV99]. Office
[MWE08]. off's [PKST08c]. Oh [Sul02d].
OK [Day11f]. Offactory [WJ04]. Olio
[Shi00a]. Olive [GYF+10]. OMEN [KL10].

Once
[Smi01a]. One
[Ano17-29, Ano17-30, Ano18-42, Bar11,
BOS07, Day11b, Dub15b, Wil16]. Online
[Ano15e, COS+15, GPMSC20, GDDR16,
Mar02, WCC+19]. Only [Smi99b]. Onward
[Sul01a]. OOF [LFC01]. Open
[ABC+14, AM15, Ano19-28, Ano19-27,
Ano20-33, Ano20-34, Ano20-35, Ano20-56,
Ano20-57, Ano21k, Bar20b, BCB07, CC03,
CBB06, KBL15, KNS18, Owe01, PGC21,
Thi12a, Tow18, WBB+20, WCC+19,
JRD+13, LFN+11, PGF+15]. Open-Circuit
[WCC+19]. Open-Source

P [Sul04c]. Pace [Cus14]. Package
[FM19, PMFM14, Put16]. Packages
[O'LI13, WNZ17]. Phase
[BMSO9, IBPVO3, LNO99, LNO01, WWH20].
Phenomena [EBR10, LNO99, RUN03].
Phenotype [SRM+07], Phi [BHC+15].
Photon [S0G00]. Photon-Beam [S0G00].
Photonic [PGC21]. Photorealistic
[LCY08]. Photosynthetic [HIN17a].
Photovoltaic [KNG10]. Phylogeny
[WGJ16, XYY16]. Phylogenetic
[XYY16]. Physlets [ECK14].
Physicists [LMO7a, LMO7b].
Physiognomy [Shi99, IBPVO3, LNO99, LNO01].
Physiosphere [EBR90, LNO99, RUN03].
Physiology [F099, MRO2].
Physiography [WYJ19]. Physical
[AMS14, AYA14, BAC07a, BCB07, BUO10, BBW20, CF99b, CVW01, CHC06d, CHC09a, CSS00, DBL07, DAKM16, DGF08, FOL06, GSO03, GRT07d, GVT17, GL20, HAN05, HWP16, KMSH10, LNO04, LNO06, LG10, LPB13, LNO11, MAFM21, MCA105, LAM17, LAM06, LAM12, PMW20, RAI16, RAN06, ROO06, SCH15, SCH17, TK06, TNY07, TOW09, TUR14b, WIN06, ZAK18, WEP15, ANO18d, ANO18e, ANO18f].
Physio-Based [CF99b, CVW01, DAKM16, HWP16, KMSH10, RAI16, TNY07].
Physlets [BC03]. PI [MAFM21]. PIC
[ECK15]. Picture [ROB06, SKE04]. Pierro
[WEP15]. Pipeline
[CHC03, EWN13, SRT08]. Pipelines
[VSB+21]. Pitaevskii [STT05]. Pitch
[OS04]. Pits [LQZ19]. Place
[BSD07, DUB04]. Placenta [SRM+07].
Placing [LM07a]. Plan [MKM+14]. Planet
[VPL15]. Planetary [SHI02b].
Planetary [SV14]. Planning [LEW99b].
Plans [CHE17a, OLO6e, OLO6g]. Plasma
[CFA04, LBS14, SJDV09, TWE14].
Plasmas [GPZ+14]. Plate [MGZ00].
Platform [CWOL11, DAKM16, FPRK16, GHRK11, LNO11, MK10, PTML09, SAK+13, WGL16, XCY+09]. Platforms
[ACQ+20, HNO12]. Play [BAI15, DDO5].
PlayStation [KBDLO8]. Ploone
[TLO4b].
Plots [WCC+02]. Plotting [CCS08]. Plug
[DDO5]. Plug-and-Play [DDO5]. Plus
[ROB13]. pMatlab [MBB+99]. Poetry
[DAY07a]. Point [BAI05, PPE00, TM14].
Points [GAR17]. Poisson [THO01]. Polar
[LM07b]. Polarization [BNM04].
Polarized [KHC+07]. Policies [LCO20].
Policy [BEI10c, SPJ+14]. Polling [DUB04].
Polymerization [WPZ00]. Polynomials
[BAL99, RUS01a]. Pop [SMI01a]. Popand
SMI01a]. Popes [DAY19b]. Popular
[BUR99, HAS12]. Popular-but-Seemingly-Dissimilar
[HAS12]. Population [FEN06, GLS07]. Pore
[PUT16, TAM+14]. Pore-Scale [TAM+14].
Porous [KMM99, MAJ09, SAB03]. Portable
[DI14, EGFL12, GUO12, HLRW17]. Portal
[MRU+15]. Portfolio [HL01]. Portfolios
[BHL99]. Position [HAB17]. Post
[LNO05, LNO06, LNO07, SOR19]. Post-EJB
[LNO05, LNO06, LNO07]. Post-K [SOR19].
Postal [SMI99e]. Postdocs [ANO15-17].
Posterior [HSJ+19]. Posterity [PLH+18].
Postprocessing [KCO9a, KCO09b, KCO09c].
Postsecondary [BIZ16]. Potential
[yFZDY13]. Power [DAY14d, GKG+15, HAR18, HIN16, HOC10, SIE+11, WM10].
Power-Efficient [HOC10, SIE+11].
Powered [COL18]. Practical [VMH05].
Practically [TM14]. Practice
[KPA+16, KJ04, RBC+19].
Practice-Centered [KPA+16]. Practices
[ACG+20, CJL+18, CHH+13, DUB99, KHS09, KVP+16, NRG+17, PARD13, SHP12, WBB+20]. Praxis [BAR19].
Precession [MW14]. Precise [NOB02b].
Precision [BAI05, GLTF10, HIN18a, SMI03].
Predator [PEK04]. predictability [MAT05].
Predicting
[HEI20, LEO10, MSR+16, SOS+00].
Prediction
[DJ02, JQ19, LGK13, LGJ+19, LAY04, MKJ07, STG11, VVW+11, WZZ11, WCC15, ZZS+19, ZHA11]. Predictions
[JON19]. Predictive
[ANO16-39, GP15, KOS01, WLCD01].
Prefetching [XLLJ04]. Preliminary
[JH16]. Prepare [GL20, Lat16]. Preparing [Bor02, GPL09, GN08, LCG+20].

Preprocessing [RRN20]. Prescriptions [Bal09, BS99b, BS99a, BS00a, BS00b, BT01, CT00, Nob00a, ST99, Tho99a, Tho99b, Tho00, Tho01]. Present [Cho07c, JH18]. Presented [BTL19]. Presents [Tou02b].


Prey [Pek04]. Pricing [GEH+99, SPJ+14].

Primitives [Che03]. Prince [Sny13].

Principal [Nob00a, OMKdSB11]. Principles [Day08a, HWPS16, O’L05a].


Privacy [Ano19c, Ano20h, Ano20i, Ano21f]. prizes [Day12c]. Probability [Hah04, HSJ+19].

Problem [ATRA00, Bea00, Bre17, CAS+07, FAFX20, FGP99, GPC08, Kul07, MO03, MHK+06, OM03, Pes03, Smi99a].

Problem-Solving [CAS+07, GPC08, MHK+06]. Problems [Ama00, Bei09b, Ben00, BT10b, Bet99, CLC03, CG09, CS01b, Das00, DAEJ18, DV99, DMXR+14, Hym05, JCP94, LeV99, Naj08, SH10, SAC15, SFSK01, Sul02c, WB03, XKB10]. Process [Che18, GPC08, Gyu99, MBH14, RPEB14, WLDC01].

Processes [CBS14, JLN19, KM19, Muz19, Rk099, TAM+14, dKCAY00, Mat05].

Processing [APS10, AAAH+16, CWOL11, CS18, CS11, DSK15, DM12, Eng15, HBG+20, MP09, MR13, Pey11a, Pey11b, Pey11c, Qua18, Qua19, TL10a, Um08, Van12, WOAEG10, Zhu16]. Processings [Pey11b]. Processors [Gor07c, KSP12, SJDV09]. Product [Mil17, Pos14, PG17]. Production [GKG+15].

Productive [AGC+16, ILRW17, Wil06]. Productivity [FLY+09, MBB+09, FK15, Thi13b].

Products [Shi00d, Shi00a]. Professional [GPMS20, Pec20, Tho12]. Professionally [ARAG19]. Program [BB20, Bur99, CFA04, CMN00, GCV08, Lan04, OASFLAB09, PAN+16a, Vla12, PNL+16]. Programmer [Shi00a, Thi07]. Programmers [Esq11, Sma12]. Programming [AAGH17a, AAGH17b, BB20, BBG+01, CF03, CL12, DS12, Dra00, DY99, Dub99, Dub00, Fal09, GRE99, Gra09, GS13b, HC99, HHZK10b, HZH01a, Hin09, Hin13a, Hin13b, Kar99, LT09, LPV00, LC12, MM18, Nas00, PTML11, Rag06, SDS00, SL99, SB00, SG510, Tai10, XCY05, Wep15]. Programs [BCC+99, CRDO16, Di 14, Dub05b, Dub12, Fos17, LKAS19]. Progress [GF04]. Project [Ale18, KMSH10, KPA+16, Mak06, NCB+05, Owe01, PSSP15, PQ20, Thi07, Fom15, KPM10, MB20a, Mes17, SGR+18].

Project-Based [PQ20]. Projection [MR13, NSP12, Rus03, YCKK03].

Projections [HKW03, dSRT16]. Projector [ML02]. Projects [BB06, COS+15, HPMJ12, KL07, LWF10, PBSS14]. Prolog [BT10b]. Prologue [Dan99]. Promise [Gor06c, Pos09, Pos10]. Promises [Hin09, LT09].

Promising [Mar17, ZGR+17]. Propagation [BPMK21, LPV00, SA08a, SA08b].

Propellant [HD00]. Properties [JXY+19, Lew10, MJAK09, Osk07, PI16, SOS+00].

Property [Cyb99c]. Prospectus [Boa17].

Protection [Lew00a]. Protein [Han03, Jav12, Mal07a, Mal07b, SK01, Wol16, WCH12, XDK+20]. Protein-DNA [WCH12]. Proteins [PP20]. Protocol [Gal11, LZZ17, Zel17].

Prototypes [Mil17, Pos14].

Prototyping [FMB+07, HD00, LRRK00, PL02, PS17].

Prove [Sul99b]. Provenance [AAH+08, DGJ+08, FKS08, MGD+08, SFC07, ST08, TJCC20]. Provide [PK18, Tou01]. Provides [CC99, Rob06, Tou00, Wol16]. Province [GYF+10]. Provision [GHKZ17].

Proximity [MP14]. Pseudopotential [SAC15]. Public
Ara99, BC02, Bil00, BCC99, Bur99, CW05c, CW05e, CC99, Cyb01, Fe00, Lov04, McK00, Nob00b, Seg99, Shi99, Shi00c, Shi00b, Shi00d, Shi00a, Shi01a, Tou00, Tou01.


S [Mol12]. Safari [Ben09]. Sage [Gra08b].


Scalable [Bry11, GLS11, GARS+17, KSM+17, LNI+19, Liu15, MGS08, NVK99, Par16, RSC+14].

ScalaLab [PTML11]. Scale [Ama00, BB+15, BP99, CS14, CS15, Day14a, DMX+14, Eis17, Far99, GL99, Gob05, HHF+14, HMB+14, JEP20, Jon15, KMS+10, LWF10, LCY+04, Ma16, MWE+08, Rei02, Sah03, SNTL13, Ste99, TB11, TWE+14, TAM+14, VKN99, VM15, Wes21, WPZ00, WHW18]. Scales [Gyu99, Kus06a].

Scaling [GS03, Rum03]. Scarcce [RBK02].

SCC [AKR11]. Scenario [AAGH17a, AAGH17b]. Scenario-Based [AAGH17a, AAGH17b]. Scenarios [PQQ20, UGV11]. Scene [ML02].

Scheduling [WQLZ18]. Scheme [PLW17]. Scholars [Day13a, Slo16]. Scholarship [Ano17-31, Ano17-31i]. Scholes [Hig04].

School [AAGH17a, AAGH17b]. GPMSC20, Les16, Sca16. Schools [Rec16, Su06b].

Schrodinger [Mov06, RK05]. SciDB [SBZB13, YBBP15]. Science [AM18, Adl20, ABC+14, AHI+11, AAGH17a, AAGH17b, APC+19, Ama06, AMS14, Ano03, Ano05a, Ano12b, Ano15-37, BC02, BT17, Bar19, Bar20a, Bei06, BSD07, BERT09, Cart09a, Car12, CE14, Car16, CHC+17, CC03, Chr15, CW20, COS+15,
Singularities [Ano18j, Sin18]. Sinusoids [Rus02]. Sisyphus [Chr99]. Site [DKK05]. Sita [BAD+21]. Skeletal [Roh10].
[HHF+14, Nei08, Sza99, Tha08b].
SkyQuery [BDS13]. SkyServer [RTSS14a, RTSS14b]. Slab [YLZ+19].
Slices [QPCJ07]. Slide [Sul04d]. Sloan [Nie08, Sza99, Tha08b].
Small [EVL+17, SL18]. Smaller [Bei12c]. Smelly [Dub05a].
Smoother [YaL10]. Snapshot [HHP19]. Snaring [Cho07d].
Social [Day13f]. Social [Ano18-43, Ano18-44, AM05, CHM+20b, CHM+20a, Day13f, LTD11, PI16, Pon16].
Sociophysics [Sta03]. Socket [SG10].
Societaert [Lud13]. Soft [Day11d, Zhu02].
Soft-Devices [Zhu02]. Software [ARAG19, ABC+14, ACG+20, Ano14y, Ano14-49, Ano15b, Ano20-36, ACF18, BL102, BBM+15, BKS15, Car09a, Car09b, Car12, CHH13, CE14, Car16, CHC17, CGK+18, CF99a, CC03, Ch19r, CGZ20, CHH+13, Day08c, Don99, Dru20, EJ09, Edd09, EWN+13, ERS+03, FLV+09, Fox04b, GEH+99, Gor06b, Gor08c, Gra08b, Gro09, Gu02, HAB17, HLS+16, HHP19, Hin13c, Hin15a, Hin15c, Hin19, Hoe10, HBG+20, HPC20, JH18, KC19, KMB+19, KHC+20, KHS09, KSM11, KVP+16, KVP+17, KB09, KSM+17, Kn05, KS20, LFK+19, LSN20, MBH14, MWC+16, MHD+99, MB+09, O’L06a, PSSP15, Pec02, PAN+16b, PK18, PBD+11, PM20, RBC+19, Re09, STW15, Shi02b, SAK+13, SZM+13, SHPL12, SSW21, SGRK+18, TTT15, Tho12, TJCC20, WDC18, WW17, Wil06, WL09, KNS18, CHH+13, DVR+19]. Sol [dA03].
Sol-Gel [dA03]. Solar [Col18, MRNT17, MFD+09].
Solar-Powered [Col18]. Solid [Ara99, HD00, JCP14, Run05, WWH20].
Solids [RcK99]. Solution [Eis17, GPZ+04, Moy06, O’L06e, O’L07b, STTV05, TS02, WQLZ18].
Solution-Adaptive [GPZ+04]. Solutions [BT10b, Burb18, JWEK06, Lud13]. Solve [DAEJ18, MSL+07, WB03]. Solved [Sul10e].
Solver [DGK16, RSC+14]. Solvers [Ara99, O’L05f]. Solving [ATRA00, Bet99, CLC03, CAS+07, CG09, DM04, GP08, JCP14, MHK+06, Naj08, O’L05c, Pes03, RK05, RLRL04a, SH10, SBB+15]. Some [Kul07, RLRL04b, XB10]. Something [Cho08e, GM06]. Sonification [KWT99]. Soon [C05e, Gor08a]. Sophisticated [Bas14]. Sort [O0B17]. Sorting [ALH+20].
Soulmate [Day17c]. Sound [Azo06, KWT99, LPV00]. Sound-Wave [LPV00]. Source [ABC+14, BCB07, CC03, CBB06, CGZ20, KNS18, LFN+11, Owe01, PGC21]. Space [AAB+13, Ano18j, Chr15, GPZ+04, LMP13, Par12, Sin18]. Space-Time [AAB+13, Ano18j, Sin18]. Spaced [LM07a]. Spaces [DAEJ18, JS09]. SPACSSIM
[HAB17]. Spanish
[MGFRL+12, RLHGA+13]. Sparse
[O’L05c]. Spatial
[GW15, Lto13, Sch21, WLL+14],
Spatiotemporal [SL03, Spawn [Gor07d].
Speaking [Sul07a]. Special [Ano05g, Ano09b, Ano10c, Ano11d, Ano15e, Ano15f, Cho06f, FHM99, Got06, MW11b, Ron14].
Special-Purpose [FHM99, Got06]. Speckle [HAB17]. Special-Relativistic [MW11b]. Speciation [dOMdO+04]. Specific [HiC+16, JWL14].
Specification [BHC+08]. Specifications [HiC+15c. Spector [Mol12]. Spectral [Gaa03]. Spectral [Cor07, IHL+02, Ome06, RK05, RD05a, RD05b, SM17, SOV+13].
Spectrum [Cho06g, EWN+13]. Speed [GYL+1, LQZL19, SR12, YYY+19].
Speeds [Che03]. Speedup [Zhu16]. Sphere [AK04]. Spherical [LPV00, RRH+02].
Stability [YYG+19]. Stable [ZJW08]. Stack [HPP19]. Stacked [PSS20]. Staged [Lau08]. Stages [HC17]. Staking [Cho05c].
Starving [Alt10]. State [Bal15, CCJ04, Hin12b, Lan04, LC09, Moy06, SSP06, YYY+18, ZZZ+19].
State-of-Charge [YYG+18]. Statements [KS20]. States [KLQ19]. Stationary [Moy06]. Statistical [CSS00, Gut01].
Structures [Ano18-41, ES18]. Strategies [Ano16-47, Ano16-48, NSLD99, PMW20, RBK02, SH10, SWPB00, Smi16, SLM12, Sto12, WWJH20].
Streamlines [LM07a]._streamlining [BW14]. Stress [GKG+15, O’L04a, PSR+00, WLCD01].
Stress-Mediated [WLCD01]. Strikes [Cho07b]. String [AK04, Gio02]. Stroll [Lau08]. Structural [STWK15]. Structure [BJ02, BHKW03, CDKF15, GBDW04, GS03, GMP11, Kyr08, LCY+04, LHGX18, Luo13, YCZ07, VWC11]. Structured [TKM+18, YBBP15]. Structures [FL05, Maj03]. Student [Ano17-31, Ano18-46, HPMJ12, HC17, KL07, Wri16].
Students [BW10, Bel12a, CHM+20b, CHM+20a, Den16, GPL09, GN08, GL20, Hig04, SDS00, WCP17]. Studies
Studio [Kra03]. Study [AAH+08, BBW+20, BDC+05, COS+15, DPBS+16, DM+12, DDV+08, FAFX+20, HF+04, JH+16, KMSH+10, KPM+10, MB+11, MR+13, MM+14, Mem+16, MSS+09, NC+C14, NC+18, PSSP+15, RP+14, SDA+20, SM+17, Sch+18, Sch+20, Sch+21, SLK+20, SNCT+13, Sim+13, SY+14, Ste+02, Wol+16, YWMM+04, YY+19, ZLTX+19]. Studying [Ma+16, MAFM+21, OR+12, RCD+00, Zeb+00]. Style [Mol+12, Rei+13]. Stylized [LYC+07]. Subarctic [EKLY+07]. Subjects [TGP+06]. Submissions [Ano+20-56]. Submodels [MPR+18]. Subspace [vdV+00]. Subsurface [Ged+16a]. Subtract [Tho+99a]. Success [COS+15]. Successfully [Gar+17]. Sue [Dub+06b]. Suitability [GKF+10, HRRS+09]. Summary [KL+15, MJM+06]. Summer [Day+17c, TL+08a]. Summit [Hin+18b]. Sun [GPZ+04, Tou+00]. Sun-to-Earth [GPZ+04]. SunRay [TS+02]. Sunshine [Thi+15b]. Supercomputer [Fei+05, Rag+06, WS+99, Dub+15b]. Supercomputers [Ano+18]. Day+12f, GIF+12, Sin+18]. Supercomputing [ACKW+01, AGC+16, CE+18, GLS+11, GK+18, Jon+19, Mil+17, VSB+21, WG+15]. Supercomputing-Enabled [GK+18]. Superconducting [DLW+19]. Supernova [Ott+16]. Supernovae [OR+12, Tow+09]. Supply [She+07]. Supply-Chain [She+07]. Supplying [EDJ+10]. Support [CHB+19, GP+15, GPMSC+20, Mas+06, MBH+14, MSD+10, SPB+20, TGU+21, WPM+12]. Supporting [HLS+16, KHE+13, LZZ+17, LGW+17]. Sure [Su+08c]. Surface [CS+01a, Gaa+03, KSO+10, MPR+18, Pey+11c, QPC+07]. Surfaces [JCC+10, LJWC+06, YaL+10]. Surgery [DBJ+20, JT+01]. Surprises [Su+01b]. Surveillance [Day+13d]. Survey [Ano+00b, CHHB+13, CW+06, FKS+08, GZC+14, VWL+11, Nei+08, Sza+99, Tha+08b]. Surveys [HHF+14]. Survivability [SKC+02]. Survivability-Lethality [SKC+02]. Survival [AT+06]. Susceptible [Sch+21]. Susceptible-Infected-Recovered [Sch+21]. Suspension [Su+01d]. Sustainability [CGK+18, CHH+13, RBC+19]. Sustainable [Ano+16-30, Ano+18-28, Ano+20m, Ano+20k, Ano+20l, Ano+21e, Tow+18]. Sustained [BPW+20, CJL+18, KMB+19]. Sustaining [Wes+03]. SV [HLYQ+19]. SV-FVDM [HLYQ+19]. SVD [WLL+14]. SVG [LVK+02]. SVP [Tou+02b]. SVP-6000 [Tou+02b]. SWARM [vGDS+18]. Swatch [Kil+09, NLV+99]. Swiftly [Dub+15a]. SWIG [Cot+03]. Swimming [CFCD+04]. Swinging [OS+03]. Switch [Kil+09, NLV+99]. Sylvester [O’L+05]. Symbolic [DM+04, RT+12, VGM+09]. SymPy [RT+12]. Synchronous [Can+99]. Synthesis [AMK+04, GEH+99, LNI+19, VMK+20]. Synthetic-Based [VMK+20]. Systematic [HLYQ+19, UGV+11]. System [BCC+09, DLW+19, DAKM+16, DC+04, DSV+08, GHT+10, GVB+15, Gra+08b, HDB+04, Hin+17a, Ikk+16, JLY+19, KKNP+14, KB+04, KS+00, LWF+10, Los+03, MKK+17, MM+14, O’L+07a, O’L+07b, OL+06h, PG+07, RPBE+12, Run+00, SSG+16, SLK+20, Sor+19, STM+99, SBZ+13, TKM+18, TJ+14, UGV+11, ZLTX+19, TSFG+08]. Systematic-Based [VMK+20]. Systems [AMK+04, BFS+04, Che+10, CJT+13, FAFX+20, FGRS+17, Gro+09, HAB+17, HLT+09, JR+10, KC+09a, KC+09b, KC+09c, Kwa+17, Kyr+08, MW+14, Muz+19, MS+07, MSG+07, NW+15, O’L+05c, O’L+06c, OSM+19, Owe+01, Par+00b, PSA+14, SLRM+04a, SDA+20, STB+03, SGS+10, TB+11, TL+08b, TBM+19, VM+15, VW+12, WHM+02, YB+12, Wil+01]. Table [Ano+13q, Ano+13r, Ano+14-50, Ano+14-51, Ano+14-52, Ano+14-53, Ano+14-54, Ano+15-46, Ano+15-47, Ano+16-41, Ano+16-42, Ano+16-43, Ano+16-44, Ano+16-45, Ano+16-46, Ano+17-37, Ano+17-32, Ano+17-33, Ano+17-34,
Tennessee [Par12]. Tensile [JXY+19].
TeraGrid [DKK05]. Terahertz [GBP11].
Term [HS12, KILZ13, RBC+19]. Terms
[Pan11, Smi99c]. Terra [Goj01]. Terrain
[HEH+10]. Terrain-Related [HEH+10].
Terrific [Goj01]. Terrorism [Bor02]. Test
[AGM*00, NCM+14, NC18, RPBE12, STHR12]. Test-Driven [NCM+14, NC18].
Testing [Clo15, DLLZ19, DLLZ20, Dub12, Ed09, Hin15a, HK09, KC19, LSN20, PD02, RPBE12, Rus01b, TLG06, WM00].
Teuscher [Lov04]. Texas [PHW+21]. Text
[Aya07, Aya14, BCG+99, KHE13, KNV03].
Textbook [GL08]. Textbooks [BP10].
Textiles [NG20]. Texture
[FoDLVF+11, NW13]. Texture-Based
[FoDLVF+11, NW13]. Thank [Ano20-71].
Thanks [Ano05b, An09b, Ano10c, Ano11d, Ano15a, Ano16a, Ch06f]. Their
[KLS01, Mem16, PI16, RLRLM04a, ZLW+19].
Them [Wil06]. Thematic [AAB+13].
Theme [Suy13]. Theme-Based [Suy13].
Theoretic [KNV03, ZS07]. Theorist
[Cre99]. Theory
[Ara99, HHZK01b, HHZK01a, Jq19, JG13, KNG10, KS01, PMW20, Sch01, ZZZ+19].
Therapeutics [VS+21]. Therapy
[Lew99b, SG00, ZFS12]. There [Esq11].
Thermal [JC02, PZS10]. Thermath
[MAC08]. Thermodynamics [SR13].
Thermomechanical [CBS14].
Thermonuclear [RCD+00, Tow09]. Theta
[Wil18]. Things
[Bet17, Dub07b, FGRS17, Smi00c, Sul10b].
Think [Kus07, MB17]. Thinker [Lov04].
Thinking
[Day11b, PKST08c, PQ22, Th09a, Yas17a].
Third [Smii0c, dSRT16]. Those [Wil08].
Thought [Sul05b]. Thousand [Sku04].
Threads [Sul01b]. Threat [Bor02].
Threats [TMB18]. Three
[BFF12, Day11b, DG12, DNV+08, GWMG04, Maj03, PHW+21, Sil02].
Three-Dimensional [GWGM04, Maj03].
[YWMM04]. Turbulence [KBLE15, NTV07, PR01, RF00, SJVD09, TWE14]. Turbulent [AMCH07, CCPS12, DJS13, HF04, LUMM14, MP09]. Turing [Lov04, Hin17b, Lov04]. Turn [Day06c].

Turning [Cho08e, DB07, LDAS19]. Tutorial [JG13, Tweets [AAB+13]. Twice [RRAB06], Twiddling [Coh09]. Twist [O’L04a], Twitter [FL21]. Two [BOS07, BW01, DAEJ18, GWMG04, Has12, MVUSK14, Pat02, Ron14, Ste12, TOW00, TCCC13]. Two- [GWMG04]. Two-Body [Ron14]. Two-Level [DAEJ18]. Typed [LT09]. Types [PMM+08].


Uncovering [Har18]. Undergoing [ZJW08]. Undergraduate [Don03, Fu06, GCV08, Mar17, Pes03, TK06]. Undergraduates [Lan04, TUR14b]. Underrepresented [Den16].

Understanding [BNM04, Che18, Com20, Cyb02, EJ09, GPC08, GvdWT07, HS12, MRNT17, Ott16, WMB20]. Unearthing [Mor15]. Uneven [Mar17]. Unexpected [PK18]. Unified [GRS08, HRRS09].


[Nsp12, SPW+13, SPJ+14, SGRK+18]. User-Centered [Nsp12, SGRK+18]. User-Steered [SPJ+14]. Uses [SSG16].

Usher [LL13]. Using [APS10, Ano18], ALM19, Azo06, BST+13, BBN03, BCH+09, BT10b, CS18, CS01a, Cot03, DKCL14, Esi17, FODLVF+11, FAFX20, FKB+13, Gal11, GEH+99, GW15, GYF+10, HMA00, HRWS06, HHR02, HH99, HWPS16, HKW03, Hin20b, HSJ+19, IHL+02, JH01, JCC+10, JJZC10, JW01, JS99, KFS18, KSP12, KEF07, KSSF11, LVL14, LWG19, Lpv00, MAC08, MPP14, MSL+07, Mor15, Mox06, MFD+09, Naj08, Ono01, PEO9, Rao16, RPBE12, RLRML04a, SMM+11, SSC18, SYP08, Sin18, Smi03, SJVD09, Taj10, TK06, Treg99, Vir16, Vla12, Vor01b, WLCJ12, WPM+12, WCAL14, WNZ+17, WD06, WOAEG10, WT12, WWJH20, WB03, XHL+13, XKK+02, YCKK03, YWMM04, Zak18, Zet17, ZZPC06, ZL09, SOV+13].

Utility [Cho06c]. UV [SPW+13]. UV-CDAT [SPW+13].

V [Azo06, Don06a, Ton02a]. Vacation [TL08a]. Vaccines [WZS+10]. Vale [Cho08a]. Validatable [Roa04]. Validating [Ben04, CDF+04, HLS+16, Pie04]. Validation [KVP+17, Ste02, TP04].

valuable [O’L05a]. Value [Nob00a]. Vanacek [Ome06, Cor07]. Variability [ZB04]. Variable [O’L12, Rus03].
Variable-Geometry [O'L12]. Variations
[GLS07]. Varying
[DLLZ19, DLLZ20, Ma03]. Vaults
[IKMK13]. Vector [ALM19, DSK15].
Vegetation [EKLY07]. Vehicle
[AMKL04, DLW+19, LGW+17, SSCN11,
ZS+19, ZLTX19]. Vehicle/Bridge
[DLW+19]. Vehicles [MSB+14, PAN+16b].
Vehicular [CSS00, YAA+00]. Velo
[GSB+12]. Velocity [HLYQ19]. Ventilator
[KKO+20]. Verifiable [DG12, Roa04].
Verification [KVP+17, KNKP14, TP04].
Verify [Su02c]. Versatile [Aya07, Shi01b].
Version [HLT09, PCBV19].
VersionClimber [PCBV19]. Versus
[Hin18d, TLD02]. Vertical [Tur15]. Very
[DSK15]. Very-Wide [DSK15]. Vessels
[Luo13, PAN+16b]. Vestibular [ZDW+07].
Vets [Day09d]. VI [Don06b]. Via
[CAS+07, Boe00, LHGX18, NCM+14,
WLL+14, YLZ17]. Vibrating
[FGP99, Gio02]. Video
[BB20, Mal00, SSCN11]. Video-Based
[SCN11]. Videos [Day19b]. View
[Fox18, GVB15, PMK+08]. Viewing
[YCK03]. Viewpoint [OS04]. Vintage
[Day10a, Lew02a]. Viral [GARS+20].
Virtual [AGM+00, DZW+05, Day18e,
DBJ+20, DDV+08, FMK+07, Har04a, HD00,
How12, KT08, LRRK00, LCY08, MVUSK14,
MV20, NLGJN13, PL02, Pos14, PS17,
Run05, SLK+20, SPB+20, TW03, WSC+04,
XYC+09, YWC02, YCL05, PSR+20].
Virtualization [THL10]. VirtualLab
[ERS+03]. Virus [BO03]. VIS [CSW17].
Vision [DiP18b, Gor06c, Gor08b, HLYQ19,
Oli13, Sny13, Wi01]. Vision-Guided
[DiP18b]. Visions [LPB15]. VisTrails
[FS12, TGEA09]. Visual
[AAB+13, DVP+17, DH12, EPHY18, Joh12,
KHE13, Lo03, MSL02, RZ+20, Rob04,
Wan18, RZ+21]. Visualization
[Adl03, APS10, Ber99, CF99a, CF99b,
Che99, CY00, CYW01, CN03, CZ07, Com20,
CW20, DPBS16, GHT+10, GWA+07, HW15,
HPKS04, JWEK06, JPK01, KWT99,
KSW+12, KBPW15, LRRK00, Lan02,
LYC07, Lo03, Ma16, MW14, MRKK17,
MJM+06, MSR15, MW11a, MW11b, NVK99,
NC03, NW13, NSLD99, PCY14, PP20,
RV11, Rob04, SUP+11, SKNV03, STG11,
SYP08, SJDV09, TAF+18, Toh07, Vort01a,
WCC+02, WY12, WJ04, Weg00, WT12,
WAS+12, YCK03, ZCXM09, VCGS11].
Visualizations [Oli13, SNTL13, SFC07].
Visualize [Ben09]. Visualizing
[AMCH07, AK04, BB07, BH02, BCG+99,
CFA04, CHC+11, JME08, KF03, KEF07,
Luo13, Ma03, MFD+09, SOV+13, SGW02,
Tho00, TS10, TW03, WJ16, dSR16].
Visually [HKW03]. VisWeek
[SSW11, SEPC10]. VLAD [LPY18]. Vlog
[CHM+20b, CHM+20a]. Volcanology
[ST05]. Voltage [WCC+19]. Volume
[AMCH07, Ano03, Ano05a, CCSS08, Dac16,
DLLZ19, DLLZ20, Ma03, SRM+07, YL02].
Volumes [BHC+08, KEF07]. Volumetric
[Luo12]. Volunteer [Ano12b, Ano20-51,
Ano20-52, Ano20-53, MSR15, PBSS14].
Voronoi [Raf16]. VPython [SDS00]. VR
[Ano17-40]. Vulnerability [Day11d].
Wavefunctions [AK04]. Wavelet [Ama00, DVP+17, FM19, Sah03, Tas00]. Wavelet-Based [Ama00, DVP+17]. Wavelets [HO99]. Wavemulcor [FM19]. Waves [SNTL13]. Way [Cho05f, GM06, O’L06c, Smi00c, ST99, Tou02a, Vog13]. Weakest [AT06]. Weapons [Day10a]. Wearable [NWP19, YLZ17]. Weather [DGR+05, KILZ13, LMPV13, LAY04, SBW+19, STG11]. Weave [Sul02d]. Weaving [CB02]. Web [Lau05, ACKW01, Ara99, AGC+16, BC02, Ben00, Bil00, BO04, Can99, Cho07d, Com99, Cyb01, Day08a, DJ02, Dr00, Fel00, Fox01, GGD+05, GM02, HJ01, KJ04, Lau06, LTG07, Mal00, McK00, PF04, Pok04, RTSS14a, Re99, Seg99, Shi02a, Sil00, Smi00d, Sul02d, TH99c, VP04, VSM+09, WCC+02, XLLJ04, Zak18]. Web-Based [AGC+16, WCC+02]. Web-Enabled [VSMD+09]. Web2py [Di11]. Webgraph [DLLM04]. Week [Ano19-55, Ano19-56, Ano15-48, Ano15-49]. Weighting [FOdLVF+11]. We'll [Bei09b, Sul03a]. Wenchuan [FCT+10]. We're [CW06, Day10e, Sul02c, Hin20b]. Where [Bei09c, Cho08f, Ha09, Jon15, MM14, Toh08, Ano16]. wherever [Ano14-55, Ano14-56, Ano15-48, Ano15-49]. Which [KMB+19]. Whip [Sul10c]. White [Deb18]. Whither [Day18f, Got15]. Who [Cyb00a, KHS09, Sul04e, Thi13d, Wil08]. Whole [Mye99, Ruc00]. Whole-Genome [Mye99]. Whom [Lew00a, Sul07a]. Wide [DSK15]. Will [Got01, Wil08]. Willing [Sul01d]. Win [PPE00]. Wind [MRNT17]. Winded [WWJH20]. Windows [Col18, YZ10]. Wing [MM16, RSC+14]. Winners [Don99]. Wireless [VVNV18]. Within [SDA20, GWA+07, TGEA09]. Without [PCBVS19, CW05d, DSC+09, Par00b]. Wizardry [Shi02a]. Women [Biz16, DKWL17, Smi16]. Wonderful [GM06]. Word [Day12e, Day13d, Sul04d]. Words [Day15d, Day19b, Sku04]. Work [AB03, Bei10d, LTNME09, Mar99a, Wei11]. Workbench [LT08, TX08]. Workflow [ACP+19, DVR+19, MB20h, OSM+19, TBM+19, YBD10, YEC+19]. WorkFlow-Driven [ACP+19]. Workflows [CHB19, CR15, DGI+08, HHR+13, JWL14, LJR19, JR13+13, LDAS19, WCAL14]. Workforce [Lat16, LCG+20]. Workload [WQLZ18]. Workshop [Car09a, Car09b, CHC17]. World [And11, Ano16-47, Ano16-48, Ano19b, Bil00, Bro06, CC03, Cho08f, Coh09, RRAB06, Ano17c]. Worlds [BBC+11, Tou00]. Worries [Dub08a]. Worthy [Ano19-38]. Would [Day10b]. Wouldn’t [Shi00b]. Write [KHS09, Wil06]. Writers [Day18d]. Writing [Bar12, Day16f, Hin15c, O’L06a, Wri10]. Wrong [FL21, Sul07b].

X10 [Taj10]. XDMoD [PGF+15]. Xeon [BHC+15]. XML [CBB06, Fox02c, FB04, IK05, LVWK02, SF11, TL04a, TB04, VB08]. XSEDE [Akl18, Mor15, TCD+14, Gor13]. XtremeData [SDCV10].

Y1K [Smi99a]. Y3K [Smi99f]. Yaw [OS04]. Year [Cho05d, Cho07c, Dub15b, Smi99a, Sul02c]. Years [BKK15, Cho08d, RTSS14a, RTSS14b, Sch17b, WBG15]. Yes [WB19]. Yield [CF13]. Yields [CJ16, Gor07b]. You’re [Cho07f, NLV99].

References

Arcas-Abella:2016:HAQ


Andrienko:2013:TPG


Alexandron:2017:TSBa


Andreas:2003:EWI

Ahalt:2014:WSS


Alur:2002:MAB


Almgren:2009:NLMA


Antil:2018:NQB


Alliez:2020:ARR

Aloisio:2001:WAS


Ali:2020:PME


Aragon-Calvo:2015:FTU


Adler:2003:VAS


Adler:2020:CSE


Atwood:2016:SWB


Aivazis:2000:VTF

[AGM+00] Michael Aivazis, William A. Goddard, Dan Meiron, Michael Ortiz, James Pool, and Joseph Shepherd. A virtual test

Arriola:2007:BSU


Ahrens:2011:DIS


Alexander:2011:BD


Ashkenazi:2004:SRS


Akli:2018:XTD


Alexander:2013:MLG

REFERENCES

ISSN 1521-9615 (print), 1558-366X (electronic).


Ioannis N. Athanasiadis and Pericles A. Mitkas. So-


Anderson:2004:TVS


Amolo:2018:GHP


Amundson:2014:HPC


Andreyev:2011:WMO


Anonymous:1999:AI


Anonymous:2000:AI

REFERENCES


REFERENCES

Anonymous:2005:AIC


Anonymous:2005:STC


Anonymous:2006:A1


Anonymous:2007:LE


Anonymous:2008:A1


Anonymous:2009:A1


Anonymous:2009:STC

REFERENCES

**Anonymous:2010:B**  

**Anonymous:2010:RR**  

**Anonymous:2010:STC**  

**Anonymous:2011:Ba**  

**Anonymous:2011:CAI**  

**Anonymous:2011:STC**  

**Anonymous:2012:B**  

**Anonymous:2012:CSE**  

**Anonymous:2013:CP**  
REFERENCES

c2, September/October 2013. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).

Anonymous:2013:CNA


Anonymous:2013:CPS


Anonymous:2013:DMA


Anonymous:2013:EA


Anonymous:2013:FC


Anonymous:2013:ICC


Anonymous:2013:ICSb


Anonymous:2013:ICSa


Anonymous:2013:IS

Anonymous:2013:Mb

Anonymous:2013:MBa

Anonymous:2013:JBA

Anonymous:2013:Ma

Anonymous:2013:Mc

Anonymous:2013:TCa

Anonymous:2013:TCb

Anonymous:2014:CPa
Anonymous. Call for papers. *Computing in Science and Engineering*, 16(1):87, January/February 2014. CODEN CSENFA. ISSN
Anonymous:2014:CPb


Anonymous:2014:CPc


Anonymous:2014:CPH


Anonymous:2014:DMAa


Anonymous:2014:DMAb


Anonymous:2014:DMHa

REFERENCES

Anon:2014:EHA


Anon:2014:FYJb


Anon:2014:FYJc


Anon:2014:FYJa


Anon:2014:FCa


Anon:2014:FCb


Anon:2014:FCc


Anon:2014:FCd

REFERENCES

Engineering, 16(4):c1, July/August 2014. CODEN CSENFA. ISSN 1521-9615.

Anonymous:2014:FCe


Anonymous:2014:FCf


Anonymous:2014:GHT


Anonymous:2014:ICCa


Anonymous:2014:ICSc


Anonymous:2014:ICSf


REFERENCES


|-----------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
REFERENCES


REFERENCES


[Ano15b] Anonymous. 39th Annual International Comput-


Anonymous:2015:CPY


Anonymous:2015:FYJa


Anonymous:2015:FYJb


Anonymous:2015:FYJc


Anonymous:2015:FCa


Anonymous:2015:FCb


Anonymous:2015:FCc

Anonymous:2015:FCd


Anonymous:2015:FCe


Anonymous:2015:FC


Anonymous:2015:GMLa


Anonymous:2015:GMLb


Anonymous:2015:GMLc


Anonymous:2015:GMLd

Anonymous:2015:ICC


Anonymous:2015:ICSa


Anonymous:2015:ICSb


Anonymous:2015:ICSd


Anonymous:2015:IA


Anonymous:2015:Ma

Anonymous:2015:PNH


Anonymous:2015:RSPa


Anonymous:2015:RSPb


Anonymous:2015:RSCa


Anonymous:2015:RSCb


Anonymous:2015:RSCc

2015. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).

**Anonymous: 2015: SFH**


**Anonymous: 2015: SCH**


**Anonymous: 2015: TCLa**


**Anonymous: 2015: TCLb**


**Anonymous: 2016: RT**

Anonymous. 2015 reviewer thanks. *Computing in Science and Engineering*, 18(1):6-8, January/February 2016. CODEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (electronic).

Anonymous:2016:ICCb


Anonymous:2016:CNEa


Anonymous:2016:CNEb


Anonymous:2016:CPC


Anonymous:2016:FCa


Anonymous:2016:FCb


Anonymous:2016:FCc


Anonymous:2016:FCd


Anonymous:2016:FCe

REFERENCES

Anonymous:2016:FCf

Anonymous:2016:ICCa

Anonymous:2016:ICSo

Anonymous:2016:ICSb
Anonymous:2016:ICSd


Anonymous:2016:ICSf


Anonymous:2016:ICSh


Anonymous:2016:ICSa


Anonymous:2016:ICSb


Anonymous:2016:ICSj

Anonymous:2016:ICSe


Anonymous:2016:ICSi


Anonymous:2016:ITBa


Anonymous:2016:ITBb


Anonymous:2016:ITS


Anonymous:2016:Ma


Anonymous:2016:Mb


Anonymous:2016:Mc


Anonymous:2016:Md

Anonymous:2016:Me

Anonymous:2016:Mf

Anonymous:2016:RSBb

Anonymous:2016:RSBa

Anonymous:2016:RSP

Anonymous:2016:RSR

Anonymous:2016:TCa

Anonymous:2016:TCb

Anonymous:2016:TCc
REFERENCES

2–3, May/June 2016. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


**Anonymous:2017:CWW**


**Anonymous:2017:FCc**


**Anonymous:2017:FCd**


**Anonymous:2017:FC**

REFERENCES


Anonymous:2017:Ma


Anonymous:2017:Mb


Anonymous:2017:Mc


Anonymous:2017:Md


Anonymous:2017:Mf


Anonymous:2017:Mg

Anon Anon:2017:NMOa


Anon Anon:2017:NMOb


Anon Anon:2017:NMOc


Anon Anon:2017:NMOd


Anon Anon:2017:OMUa


Anon Anon:2017:OMUb


**Anonymous: 2017: RMS**


**Anonymous: 2017: TCa**


**Anonymous: 2017: TCb**


**Anonymous: 2017: TCc**


**Anonymous: 2017: TCd**


**Anonymous: 2017: TCe**

Anonymous:2017:Ta


Anonymous:2018:RT


Anonymous:2018:ICC


Anonymous:2018:AI


Anonymous:2018:AIPa


Anonymous:2018:FCb


Anonymous:2018:FCc


Anonymous:2018:FCd


Anonymous:2018:FCe


Anonymous:2018:HMA


Anonymous:2018:HAA


Anonymous:2018:ICSg


Anonymous:2018:ICsf

REFERENCES


Anonymous:2018:ITB


Anonymous:2018:ITS


Anonymous:2018:JB


Anonymous:2018:LC


Anonymous:2018:Ma


Anonymous:2018:Mb


Anonymous:2018:Mc


Anonymous:2018:Md

Anonymous: 2018: MHAa


Anonymous: 2018: MHAac


Anonymous: 2018: MHBb


Anonymous: 2018: MAb


Anonymous: 2018: MAa


Anonymous: 2018: MML


Anonymous: 2018: NSC

REFERENCEs


Anonymous:2018:TCd


Anonymous:2018:TCe


Anonymous:2018:TCf


Anonymous:2018:TAa


Anonymous:2018:TAb


Anonymous:2018:CEa


Anonymous:2018:CEb


Anonymous:2019:ISP


Anonymous:2019:Ca

REFERENCES


Anonymous:2019:Cb


Anonymous:2019:CH


Anonymous:2019:Cc


Anonymous:2019:Ca


Anonymous:2019:Fc


Anonymous:2019:Fcc


Anonymous:2019:Fcd


Anonymous:2019:Fce


Anonymous:2019:Fcf
Anonymous:2019:ID


Anonymous:2019:IIC


Anonymous:2019:ITE


Anonymous:2019:IWC


Anonymous:2019:KYCa


Anonymous:2019:KYCa


Anonymous:2019:LCSa


Anonymous:2019:LCSb


Anonymous:2019:LBTa

Anonymous:2019:LBTb

Anonymous:2019:M

Anonymous:2019:Ma

Anonymous:2019:Mc

Anonymous:2019:Mb

Anonymous:2019:Mc

Anonymous:2019:SCa

Anonymous:2019:SCb

Anonymous:2019:TCa
REFERENCES


[Ano20b] Anonymous:2020:CEa


Anonymous:2020:Ce


Anonymous:2020:ICG


Anonymous:2020:IPC


Anonymous:2020:ISPa


Anonymous:2020:ISPb


Anonymous:2020:ITB


Anonymous:2020:ITSa


Anonymous:2020:ITSb


Anonymous:2020:ITS


Anonymous:2020:CMA

Anonymous:2020:CAAb


Anonymous:2020:CALa


Anonymous:2020:CALa


Anonymous:2020:CALb


Anonymous:2020:CN


Anonymous:2020:CP


Anonymous:2020:CPla


Anonymous:2020:CPib


Anonymous:2020:CAa


Anonymous:2020:Cba

REFERENCES

Anonymous:2020:Cc

Anonymous:2020:CGAb

Anonymous:2020:FCa

Anonymous:2020:FCb

Anonymous:2020:FCc

Anonymous:2020:FCd

Anonymous:2020:FCe

Anonymous:2020:FCf

Anonymous:2020:GPNa
Anonymous:2020:GPNb


Anonymous:2020:GPNc


Anonymous:2020:HDM


Anonymous:2020:HRN


Anonymous:2020:ICSb


Anonymous:2020:ICSc


Anonymous:2020:ICSf


Anonymous:2020:ICSi


Anonymous:2020:ICSm


Anonymous:2020:ICSn

REFERENCES

4, November/December 2020. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).

Anonymous:2020:ICSk


Anonymous:2020:ICSn


Anonymous:2020:ICSa


Anonymous:2020:ICSd


Anonymous:2020:ICSg


Anonymous:2020:ICSj


Anonymous:2020:ICSp


Anonymous:2020:ICSg


Anonymous:2020:ICSSe

REFERENCES


Anonymous:2020:ICSo


Anonymous:2020:IIC


Anonymous:2020:IQWb


Anonymous:2020:IQWa


Anonymous:2020:KYC


Anonymous:2020:Ma


Anonymous:2020:Mb


Anonymous:2020:Mc


Anonymous:2020:Md

Anonymous:2020:Me

Anonymous:2020:M

Anonymous:2020:SC

Anonymous:2020:TCa

Anonymous:2020:TCb

Anonymous:2020:TCc

Anonymous:2020:TCd

Anonymous:2020:TCe

Anonymous:2020:TC

Anonymous:2020:TYO
Anonymous:2020:TTT


Anonymous:2021:CGAa


Anonymous:2021:Ca


Anonymous:2021:IAHa


Anonymous:2021:ITBa


Anonymous:2021:ITSa


Anonymous:2021:SPa


Anonymous:2021:CMAa


Anonymous:2021:CAa


Anonymous:2021:CAIa

REFERENCES

ISSN 1521-9615 (print), 1558-366X (electronic).

Anonymous:2021:FCa

Anonymous:2021:GPNa

Anonymous:2021:ICSa

Anonymous:2021:ICSc

Anonymous:2021:ICSd

Altintas:2019:TMF


[Ass00] Panayotis A. Assimakopoulos. Education: a computer-aided

**Amengual:2006:TSW**


**Alexander:2005:NAR**


**Alberola:2000:GMP**


**Ayars:2007:VTI**


**Ayars:2014:FPB**


**Azooz:2006:ADA**

REFERENCES

DEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES


Barba:2021:TCE


Basegmez:2002:ESA


Basu:2014:TFE


Bauke:2008:PML


Borwein:2001:CMC


Bernreuther:2006:FEG


Banks:2007:FGI

David C. Banks and Kevin Beason. Fast global illumination for visualizing isosurfaces with a 3D illumination...

**Barriga:2020:AIM**


**Behnel:2011:CBB**


**Bosilca:2013:PEH**


ISSN 1521-9615 (print), 1558-366X (electronic).

**Bova:2001:PPM**


**Blomer:2015:EGS**


**Ballas:2003:UAE**

REFERENCES

Biswas:2020:IET


[BBW+20]

Beckmann:1999:GEI


[BC99]

Boghosian:2005:GEIIa


Bailey:2002:BWR


[BCC09] Francesco Belletti, Maria Cortallo, Andres Cruz, Luis Antonio Fernandez, Antonio Gordillo-Guerrero, Marco Guidetti, Andrea Maiorano, Filippo Mantovani, Enzo Marinari, Victor Martin-Mayor, Antonio Munoz-Suidge, Denis Navarro, Giorgio Parisi, Sergio Perez-Gaviro, Mauro Rossi, Juan Jesus Ruiz-Lorenzo, Sebastian Fabio Schifano, Daniele Sciretti, Alfonso Tarancón, Raffaele (lele) Tripiccione, Jose Luis Velasco, David Yi-

**Booker:1999:VTD**

**Bayoumi:2009:SEC**

**Bond:1999:CCC**

**Benedetto:2003:ZRI**

**Bruin:2005:BME**
REFERENCES


[Beichl:2009:BB] Isabel Beichl. Begin at the

**Beichl:2009:WTC**


**Beichl:2009:WRM**


**Beichl:2010:D**


**Beichl:2010:E**


**Beichl:2010:GPM**


**Beichl:2010:RWC**


**Beichl:2010:YSY**


**Beichl:2011:C**


**Beichl:2011:JT**

REFERENCES


REFERENCES


[BFF12] Javier Baladron, Diego Fasoli, and Olivier Faugeras. Three applications of GPU computing in neuroscience. *Com-


REFERENCES


Bana:2020:OKD


Borrill:2015:BBB


Brown:2015:RTE


Billie:2002:PSS


Beckmann:1999:HSN


Belletti:2006:IAF

Francesco Belletti, Filippo Mantovani, Giorgio Poli,


**Binder:1999:HSC**


**Buc\:en-Osmond:2003:UVD**


**Boudriga:2004:IAW**

Boahen:2017:NP


Boettcher:2000:CSE


Boghosian:2005:CCC


Boris:2002:TCB


Beichl:2007:MCM

Botchway:2016:ANR


Bouchaud:1999:FDM


Barrett:2010:T


Beckvermit:2013:MMA


Bergonzi:2021:DTM


Barnes:2020:FRE


Breaux:2017:CBD


**Beichl:2000:MA**


**Board:2000:FMA**


**Beichl:2002:BR**


**Beichl:2006:GEI**


**Beichl:2006:OMC**


**Beichl:2008:CC**

REFERENCES

Beichl:2009:CI


Bai:2013:SLA


Black:2001:CPB


Barrett:2010:PPS

REFERENCES

Bensky:2010:CGS


Barba:2017:RRC


Barrett:2019:ART


Burr:1999:TNRb


Butikov:1999:EPR


Bienstman:2007:PNR

REFERENCES

DEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES


[CAS+07] Trevor Cickovski, Kedar Aras, Maciej Swat, Roeland M. H. Merks, Tilmann Glimm, H. George E. Hentschel, Mark S. Alber, James A. Glazier, Stuart A. Newman, and Jesus A. Izaguirre. From genes to organisms via the cell: a problem-solving envi-

**Castro:2016:DEM**


**Chetty:2002:WCG**


**Christian:2006:OSX**


**Colombo:2014:NST**


**Coisson:1999:TNR**


**Chonacky:2003:SED**

[CC03] Norman Chonacky and Dante Choi. Science and engineering databases in an open-source software world. *Computing in
REFERENCES


Chin:2004:CSG

Choi:2012:DFT

Callahan:2008:DVR

Calder:2004:VAS

Croft:2015:PCS
REFERENCES

Carver:2014:SEC

Cruz-Enriquez:2018:MSA

Chen:1999:VCA

Chen:1999:VCI

Carpenter:2003:HDP

Cushing:2013:SDM
REFERENCES

8–10, May/June 2013. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES

Crouc:2013:SSI


Carver:2013:SPA


Chin:2005:SGC


Cummings:2020:EBS


Cummings:2020:CEB

REFERENCES


Chonacky:2003:GEI

Chonacky:2004:SGU

Chonacky:2005:LH

Chonacky:2005:HJR

Chonacky:2005:EEM
REFERENCES


REFERENCES


**Chonacky:2006:NUL**

[Cho06e]


**Chonacky:2006:STC**

[Cho06f]


**Chonacky:2006:SSC**

[Cho06g]


**Chonacky:2007:MMM**

[Cho07a]


**Chonacky:2007:NSA**

[Cho07b]


**Chonacky:2007:PPF**

[Cho07c]


**Chonacky:2007:WSS**
<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
<th>Year</th>
<th>URL</th>
</tr>
</thead>
</table>
REFERENCES


[Cho15] Carol Christian. Citizen science with Hubble space telescope data. *Computing in Science and Engineering*, 17(4):12–19, July/August 2015. CODEN CSENFA. ISSN 1521-
Cunningham:2016:ADY


Chandrasekaran:2018:BPR


Chew:2013:IMD


Calder:2009:ACA


Chonacky:2001:CI


Coutts:2012:DPP

REFERENCES

36–43, November/December 2012. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES


Comba:2020:DVU


Cook:2014:AMM


Cornette:2007:GVC


Cox:2015:DMS


Cottom:2003:USB

http://csdl.computer.org/dl/mags/cs/2003/02/c2088.htm;

Casas:2012:FDI


Cheatham:2015:IHC

REFERENCES


Craig:2003:RCM


Creutz:2004:SQ


Clematis:2001:AFS

REFERENCES


REFERENCES


[CXC+20] C. Chen, C. Xiang, S. Cheng,

[Chen:2000:VCG]


[CY00]


[Cyb99a]


[Cyb99b]


[Cybenko:1999:EIP]


[Cyb00a]


[Cyb00b]

REFERENCES


REFERENCES


REFERENCES


REFERENCES

Day:2007:DDB

Day:2007:QCE

Day:2007:WBB

Day:2008:FPG

Day:2008:IC

Day:2008:SMH

Day:2009:AUC
REFERENCES

1521-9615 (print), 1558-366X (electronic).


[Day:2011:BHT] Charles Day. Buying a house, then and now. Computing in Science and Engineering,


REFERENCES

104, July/August 2012. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES

Day:2014:WFS

Day:2014:CC

Day:2014:MFR

Day:2014:RN

Day:2014:PP

Day:2014:WFS

Day:2014:MFR

Day:2015:AIB

Day:2015:DET

Day:2015:FE
REFERENCES

Day:2015:JW

Day:2015:MC

Day:2016:AI

Day:2016:CC

Day:2016:FT

Day:2016:OBI

Day:2016:WYR

Day:2016:WF
REFERENCES


REFERENCES


Day:2018:VT


Day:2018:WF


Day:2019:FM


Day:2019:WVP


Dennin:2007:TNL


Dial:2003:HTF


Devine:2002:ZDM

Karen Devine, Erik Bo man, Robert Heapby, Bruce Hendrickson, and Courtenay Vaughan. Zoltan Data Man-

**Desselle:2020:AVR**


**DiDio:2004:CEW**


**Dauger:2005:PPC**

REFERENCES

Dieter:2007:DCY


Downing:2004:DSS


Duro:2008:IVR


Decker:2017:BR


Debusschere:2018:HDW


Decyk:2015:SPC


Dubois:2003:WJC

[DEK03] Paul F. Dubois, Thomas Epperly, and Gary Kumfert.

Dennis:2016:SCC


Donoho:2012:TDA


Dolgert:2008:PHE


Delaney:2016:DAI


Dongarra:2019:RE


Droegemeier:2005:SOE

[DGR+05] Kelvin K. Droegemeier, Dennis Gannon, Daniel Reed, Beth Plale, Jay Alameda, Tom Baltzer, Keith Brewer, Richard Clark, Ben Domenico, Sara Graves, Evetette Joseph, Donald Murray,

Doleisch:2012:IVE


DiPierro:2011:WSA


DiPierro:2014:PPP


DiPierro:2017:WB


DiDio:2003:ODO


Diethelm:2012:LRR


**Dong:2005:CSC**


**DuBow:2017:MFC**


**Delp:2000:CFS**


**Danese:2007:APS**


**Donato:2004:SWC**

Debora Donato, Luigi Laura, Stefano Leonardi, and Stefano Millozzi. Simulating the Webgraph: a comparative analysis of models. *Computing in
REFERENCES


REFERENCES

Donohue:2003:UUC


Donnelly:2006:FFTa


Donnelly:2006:FFTb


Donnelly:2010:ETW


Dasgupta:2016:RAB


Donnellan:2012:DA


Dohmen:2001:PFL

[DPP+01] Renate Dohmen, Jakob Pichlmeier, Max Petersen, Frank Wagner,
REFERENCES


Donnelly:2005:FTTa

Donnelly:2005:FFTC


Donnelly:2005:FTTo

Donnelly:2005:FTTb


Drach:2000:SPS


Doyle:2011:DTC

REFERENCES

January/February 2011. CO- 
DEN CSENFA. ISSN 1521- 
9615 (print), 1558-366X (elec-

Donnellan:2004:IEI

[DRR⁺04] Andrea Donnellan, John Run-
dle, John Ries, Geoffrey Fox, 
Marlon Pierce, Jay Parker, 
Robert Crippen, Eric DeJong, 
Ben Chao, Weijia Kuang, 
Dennis McLeod, Mitsuhiro 
Matu’ura, and Jeremy Blox-
ham. Illuminating Earth’s in-
terior through advanced com-
puting. Computing in Science 
and Engineering, 6(1):36–44, 
January/February 2004. CO-
DEN CSENFA. ISSN 1521- 
9615 (print), 1558-366X (elec-
computer.org/comp/mags/
cs/2004/01/c1036abs.htm;

Druskat:2020:SDR

[Dru20] S. Druskat. Software and de-
pendencies in research citation 
graphs. Computing in Science 
and Engineering, 22(2): 
8–21, March/April 2020. CO-
DEN CSENFA. ISSN 1521- 
9615 (print), 1558-366X (elec-
tronic).

Dongarra:2000:GEI

[DS00] Jack Dongarra and Francis 
Sullivan. Guest Editors’ in-
troduction: The top 10 al-
gorithms. Computing in Science 
and Engineering, 2 (1):22–23, 
January/February 
2000. CODEN CSENFA. 
ISSN 1521-9615 (print), 1558-
366X (electronic). URL http:
/dlib.computer.org/cs/ 
books/cs2000/pdf/c1022.
pdf; http://www.computer.
.org/cse/cs1999/c1022abs.
htm. See correspondence 
[MBS⁺00].

DiPierro:2012:CMP

[DS12] Massimo Di Pierro and David 
Skinner. Concurrency in mod-
er programming languages. 
Computing in Science and 
Engineering, 14(6):8–10, Novem-
ber/December 2012. CO-
DEN CSENFA. ISSN 1521- 
9615 (print), 1558-366X (elec-
tronic).

Dietrich:2009:MCS

[DSC⁺09] Carlos A. Dietrich, Carlos E. 
Scheidegger, Joao L. D. 
Comba, Luciana P. Nedel, and 
Claudio T. Silva. March-
ing cubes without skinny tri-
angles. Computing in Science 
and Engineering, 11(2): 
82–87, March/April 2009. CO-
DEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (elec-
tronic).

Diavastos:2015:EVW

[DSK15] Andreas Diavastos, Giannos 
Stylianou, and Giannis Kout-
sou. Exploiting very-wide 
vector processing for scien-
tific applications. Computing in Science and 
Engineering, 17(6):83–87, Novem-

REFERENCES


REFERENCES


[Dub08a] Paul F. Dubois. Brain cancer may be the least of our

[Dubois:2008:GA]


[Dubois:2008:SAE]


[Dubois:2012:TSP]


[Dubois:2015:AS]


[Dubrow:2015:WGD]


[Dunning:2009:GEI]


[DV99]

DalCol:2017:WBV


Deelman:2019:EPW


Dongarra:2001:QPC


Davis:2011:HRH


Dubois:1999:SPE


Dong:2017:TTA

Jiaqing Dong, Hao Yin, Lyu Yongqiang, Hao Li, and Wei Wang. TAM: A transparent agent architecture for measuring mobile applications. *Com-


Ebrahimi:2010:IPC


Ethier:2015:NIA


Eddins:2009:AST


Ellison:2010:SAW


Esterie:2012:EME


**Etter:2001:ECH**


**Eigenmann:2011:CET**


**Eisenbach:2017:LSC**


**Easterbrook:2009:ESU**


**Esler:2012:AQM**


**Epstein:2007:SFC**

Elster:2021:EFA


Engelhardt:2009:DCM


Engdahl:2015:MIP


Eastman:2010:OHI


Englund:2018:TDE


Ernst:2003:DVS


Eigenmann:2018:NSC

References

Elmagarmid:2008:CCE

Esquembre:2011:TPL

Ethier:2001:GEI

Ebert-Uphoff:2015:IPI

Englander:2017:TOM

Ellis:2013:PSA
REFERENCES

Forouzandeh:2020:ACS


Falgout:2006:IAM


Falcou:2009:PPS


Farmer:1999:PAS


Freire:2004:MXD


Fomel:2009:GEI


Fan:2010:RAS

REFERENCES

DEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES


REFERENCES

Freire:2008:PCT


Forbes:1999:SCS


Fernandez:2005:ANF


Frehill:2021:TGW


Flamm:2017:MLB


Faulk:2009:SCP

Forbes:2002:CST


Feiereisen:2013:CSE


Fernandez-Macho:2019:PPW


Fleming:2007:VPN


Fyta:2008:MSN


Feitosa:2011:WET


Fomel:2015:RRC

[Fom15] Sergey Fomel. Reproducible research as a community effort: Lessons from the Mada-


REFERENCES

[189]

9615 (print), 1558-366X (electronic).

Foster:2017:QCF


Fox:2001:WCP


Fox:2002:SMC


Fox:2002:MPP


Fox:2002:XIB


Fox:2003:DMS

Geoffrey Fox. Data and metadata on the Semantic Grid. *Computing in Science and En-
REFERENCES


REFERENCES


REFERENCES


Gayen:2011:AOB


Glatzmaier:2000:CAG


Gordon:2008:SIU


Gordon:2016:ICO


Gedenk:2016:RMI


Gedenk:2016:IU1


Gatheral:1999:IOP


REFERENCES

Goldrian:2008:QQC


Gries:2011:SFA


Guo:2017:CCA


Grossman:2016:CDC


Ge:2010:EDV

REFERENCES


REFERENCES


Ganguly:2015:CAI


Germann:1999:RAL


Gregerson:2008:UTT


Ginn:2007:ENE


George:2011:NGF

Alan George, Herman Lam, and Greg Stitt. Novo-G: At the forefront of scalable reconfigurable supercomputing. Computing in Science and Engineering, 13(1):82–86, January/February 2011. CODEN CSENFA. ISSN 1521-
REFERENCES

9615 (print), 1558-366X (electronic).

Ghazi:2010:WHU


Gray:2006:SWW


Gomez-Mendoza:2011:ALC


Gobbert:2008:PGS


Gyulassy:2009:RTB


Gobbert:2005:CPB

Matthias K. Gobbert. Configuration and performance

**Goodacre:2017:IDS**


**Gorder:2003:Nc**


**Gorder:2004:Na**


**Gorder:2004:Nc**


**Gorder:2004:Nd**


**Gorder:2005:CLF**

Pam Frost Gorder. Computing life’s family tree. *Com-


Gottlieb:2014:ALC


[Got14a]

Gottlieb:2014:BCS


[Got14b]

Gottlieb:2015:WFN


[Got15]

Gottlieb:2015:CNC


[Got17]

Goncalves:2015:MSH


[GP15]

Gomez-Perez:2008:PSM


[GPC08]
REFERENCES

Glotzer:2009:COP


Goode:2020:OPD


Gombosi:2004:SAM


Gray:2007:DES


Gray:2008:MT


Gray:2008:SNM


REFERENCES


DEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).

Goldstein:2015:DBS


Grimstead:2007:AMV


Gisler:2004:TTD


Guyer:2009:FPD


Guo:2010:UGF


Guo:2020:CAH


REFERENCES


REFERENCES

211

computer.org/csdl/mags/
cs/2018/04/mcs2018040107.
html.

Hasbun:2008:HDN

[Has08] Javier E. Hasbun. How do
nerve cells compute? Com-
puting in Science and En-
gineering, 10(3):64–65, May/
June 2008. CODEN CSENFA.
ISSN 1521-9615 (print), 1558-
366X (electronic).

Hasbun:2012:UTP

[Has12] Javier E. Hasbun. Unifying
two popular-but-seemingly-
dissimilar platforms: Matlab
and Java. Computing in Sci-
ence and Engineering, 14(3):
6–7, May/June 2012. CO-
DEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (elec-
tronic).

Hendrickson:2008:GAH

[HB08] Bruce Hendrickson and Jonathan W.
Berry. Graph analysis with high-performance com-
puting. Computing in Science
and Engineering, 10(2):14–
19, March/April 2008. CO-
DEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (elec-
tronic).

Ham:2008:BIT

[HBB08] Kyungmin Ham, Heath A.
Barnett, and Leslie G. Butler.
Burning issues in tomography
analysis. Computing in Sci-
ence and Engineering, 10(2):
78–81, March/April 2008. CO-
DEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (elec-
tronic).

Hsu:2020:CUR

[C. Hsu, A. E. Bandrowski,
T. H. Gillespie, J. Udell,
K. Lin, I. B. Ozyurt, J. S.
Grethe, and M. E. Martone.
Comparing the use of research
resource identifiers and nat-
ural language processing for
citation of databases, soft-
ware, and other digital arti-
facts. Computing in Science
and Engineering, 22(2):
22–32, March/April 2020. CO-
DEN CSENFA. ISSN 1521-
9615 (print), 1558-366X (elec-
tronic).

Haney:1999:SPH

Scott Haney and James
Crottinger. Scientific program-
ing: How templates enable
high-performance scientific
computing in C++. Computing in Science and Engineer-
ing, 1(4):66–72, July/August
1999. CODEN CSENFA.
ISSN 1521-9615 (print), 1558-
//dlib.computer.org/cs/
books/cs1999/pdf/c4066.
pdf.

Hu:2017:FLS

Helen H. Hu and Patricia B.
Campbell. A framework for
levels of student participation
and stages of relevant cur-
riculum. Computing in Sci-

Heath:2000:VPS


Hill:2004:AES


Hoef-Emden:2005:MPA


Hacker:2011:NCE


Horner:2010:IHF

REFERENCES

Heinonen:2020:PRC


Hemmert:2010:GHN


Hansen:2004:GCS


Holland:2002:GEI


Herbordt:2008:CMF


Holmes:2000:EMP


Hargrove:1999:UMC

Hargrove, William W. and Hoffman, Forrest M. Using multivariate clustering to define


Hannemann:2001:SPSb


Hannemann:2001:SPSa


Higham:2004:BSS


Hill:2015:PRN


Hinsen:2007:PSP


Hinsen:2009:PFP


Hinsen:2012:CYD

REFERENCES

Hinsen:2012:MS

Hinsen:2013:DAS

Hinsen:2013:GFS

Hinsen:2013:SDR

Hinsen:2015:ATC

Hinsen:2015:TDC

Hinsen:2015:WSS

Hinsen:2016:PCC
REFERENCES

1521-9615 (print), 1558-366X (electronic).


REFERENCES


[He:2019:SFS] W. He, Z. Li, S. Yang, and W. Quan. SV-fvdm: A synthetic vision based full veloc-


[How12] Bill Howe. Virtual appliances,


REFERENCES


Heien:2012:ULT


Hase:2003:DDS


Hua:2019:TOD


Hsu:2006:CHD


Helbling:1999:CSN


Hu:2007:IMR

REFERENCES


[IBPV03] Srinivasan S. Iyengar, Christian J. Burnham, Matt K.
REFERENCES


REFERENCES

JaJa:2000:PQ


Javidpour:2012:CSP


Jarvis:2002:RRE


Jiang:2010:CDM


Juzna:2014:SSF


Johnson:2003:IT

REFERENCES

Jerger:2013:EPA


Jacobson:2003:Na


Joliveau:2012:UBF


Johnson:2013:DHT


James-Hawkins:2016:WIF


Johanson:2018:SEC


Jaun:2001:ETC

REFERENCES


Jin:2010:MSN

Jiang:2010:UGQ

Jones:2008:IEA

Jha:2019:ISW

**Johnston:2006:ICC**


**Jones:2015:TTU**


**Jones:2019:SIP**


**Johnson:2020:AFC**


**Jones:2001:LCH**

Samuel T. Jones, Scott E. Parker, and Charlson C. Kim. Low-cost high-performance


REFERENCES

Jafari:2011:CTS

Joskowicz:2001:CIG

Jacquot:2006:VPD

Jacob:2014:DSL

Jiang:2019:FEA

Kadanoff:2004:ECS
REFERENCES


[KB04] Roger L. King and Ronald J. Birk. Developing Earth system science knowledge to

**Krauss:2007:PMM**


**Killcoyne:2009:MCL**


**Kurzak:2008:PHP**


**Kanov:2015:JHT**


**Kurzhals:2015:ETC**


**Knipp:2009:PA**

REFERENCES


Knipp:2009:PAGb


Knipp:2009:PAGc


Kanewala:2019:MTS


Kamath:2002:CBD


Karmous-Edwards:2005:GSC


Kim:2007:VDM

Kelly:2010:GCA


Keyes:2005:ATQ


Ketcham:2003:VBE


Kunkel:2020:HCF


Keinan:2018:LCC


Kos:2007:MSP


REFERENCES


Kimpe:1999:FCT


Kapoustin:1999:CSM


Kothe:2019:ECU


Kalin:2012:CNC


Kelly:2001:CEM


Klimeck:2008:NOA

REFERENCES

[EN CENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


REFERENCES


REFERENCES


Kraft:2003:MHD


Krauth:2015:CHM


Kuck:1999:HCA


Kleinstein:2000:CSS


Kratzer:2001:SKT

REFERENCES


REFERENCES


Kwasinski:2017:SSD


Kindratenko:2010:HPC


Kaper:1999:DSS


Kyrakidis:2008:GAE


Lee:2018:ECN


Landau:1999:EPT

Lanzagorta:2002:IVH


Landau:2004:CPU


Landau:2006:CPB


Lanore:2019:FRS


Lathrop:2016:CAP


Laughlin:2002:PBC

REFERENCES


[Land09] Rubin Landau and Jose E. Castillo. Computational science research and graduate studies at San Diego State

**Luger:2012:PBB**


**Li:2019:NFT**


**Liu:2008:RTP**


**Lampoo:2019:SSW**

Lester:2016:CGE


Leung:2017:AND


Leung:2020:DIT


LeVeque:2009:PTR


Levin:1999:TCD


Levin:1999:TTR


Levin:2000:FDD

REFERENCES


Lewin:2002:DC


Lewin:2003:N


Langer:2001:OIB


Lambert:2011:PBO


Lathrop:2019:IAS

REFERENCES


**Landau:2010:ACC**


**Liang:2019:DDC**


**Lu:2018:MIS**


**Lythe:2006:KS**


**Landis:2012:CMR**

Liu:2011:HER

Liu:2015:SMT

Liu:2006:WWA

Lynett:2011:NSC

Lehner:2013:SUE

Li:2018:BDK

Liu:2019:SCL

Liang:2018:IAH
Decui Liang, Dun Liu, and Wei Quan. Information aggregation of hesitant fuzzy interval sets for multicriteria decision-making. *Comput-
REFERENCES


Martin W. Lo. Satellite constellation design. *Computing in Science and En-
REFERENCES

Loftin:2003:MPB


Lossen:2003:SCA


Love:2004:BRL


Landau:2013:BMA


Landau:2015:VRC


REFERENCES


REFERENCES


REFERENCES

ISSN 1521-9615 (print), 1558-366X (electronic).


**Major:2003:BTD**


**Makino:2006:GP**


**Malak:2000:WMA**


**Malek:2007:TPCa**


**Malek:2007:TPCb**


**Marchioro:1999:ICM**

REFERENCES

Marder:1999:MDC


Marone:2002:MOI


Martin:2017:UCP


Mason:2006:DLS


Matsuura:2005:QPG


Mousseau:1999:CSE

Millman:2007:AFM


Memarsadeghi:2011:NCC


Mesnard:2017:RRC


Marques:2020:TEE


Mesnard:2020:RWP


Mullen:2009:HPS


Mesh:2014:LES

June 2014. CODEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).

Makino:2000:LEF


Martin:2005:AMR


McKay:2000:BWR


McKenna:2011:OFE


McMail:2009:NGR

Thomas C. McMail. Next-generation research and breakthrough innovation. Computing in Science and Engineering, 11(6):76–84, November/December 2009. CODEN CSENFA. ISSN 1521-
REFERENCES

Mehta:2016:CKC

Meindl:2003:BML

Meisel:2010:BCC

Memarsadeghi:2015:CSG

Memarsadeghi:2016:NCC

Meneses:2018:ADI
REFERENCES

[Mertens:2002:CCP]

[Messina:2015:GBE]

[Madduri:2016:SSG]

[Muller:2009:JVL]

[Messina:2017:ECP]

[Marin:2017:SSE]
Miles:2008:PBB


Mesa:2012:ORF


Myers:2007:PUS


Moresi:2000:PTC


Mocskos:2018:BA


Muir:1999:LEI


<table>
<thead>
<tr>
<th>References</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
<th>Page Range</th>
<th>Year</th>
<th>Notes</th>
</tr>
</thead>
</table>
Megler:2013:DNH


Memarsadeghi:2014:NCC


Morton:2016:FWA


Maciol:2018:AMG


Mora:2005:AAC


Messmer:2008:GGC

REFERENCES

McGee:2017:DTC


Memarsadeghi:2003:CID


Moldenhauer:2012:FIS


Morningstar:2015:UEH


Moyer:2006:NSS


Ma:2009:CCI

Jianwei Ma and Gerlind Plonka. Computing with

Malensek:2014:EGG


Markt:2018:ACS


McCormick:2006:GEI


Memarsadeghi:2013:NCC


Michalski:2017:CVS


Ma:2017:USW

REFERENCES


[ML] Fionn Murtagh, Jean-Luc Starck, and Mireille Louys. Distributed visual information

**Mardal:2007:UPS**


**Monteleoni:2013:CIA**


**Morais:2015:VCS**


**Myra:2009:SCC**

Malamud:2000:CAM


Matsuura:2012:EIB


Mucke:2009:QCC


Musk:2020:CQT


Muzy:2019:EAM


Memarsadeghi:2020:VAR


Martin-Villalba:2014:TAF

Carla Martin-Villalba, Alfonso Urquia, Yuri Senichenkov, and Yuri Kolesov. Two approaches to facilitate virtual lab implementation. *Comput-

Muller:2011:GRV


Muller:2011:SRV


Marmaras:2014:SVF


Mori:2016:MDH


Matthews:2008:CML


Myers:1999:WGD


Nandagopal:2007:EFH

Mohankumar Nandagopal and Natarajan Arunajadai. On


REFERENCES

Nanthaamornphong:2018:TDD


Newman:2005:UPN


Nanthaamornphong:2014:BCT


Neely:2017:AML


Neely:2017:AME

REFERENCES

cs/2017/05/mcs2017050006.html.


DEN CSENFA. ISSN 1521-9615 (print), 1558-366X (electronic).


[Nob02b] Julian V. Noble. The right angle: Precise numer-


Newman:2007:SFT


Netzel:2013:TBF


Niyonkuru:2015:DEM


\[OASFLAB09\]


Osburn:2010:DA


OLeary:2004:ETT

REFERENCES

CODEN CSENFA. ISSN
1521-9615 (print), 1558-
366X (electronic). URL
http://csdl.computer.org/
dl/mags/cs/2004/04/c4074.
htm; http://csdl.computer.
org/dl/mags/cs/2004/04/
c4074.pdf.

Dianne P. O’Leary. More
models of infection: It’s epi-
demic. Computing in Sci-
ence and Engineering, 6(2):
CODEN CSENFA. ISSN
1521-9615 (print), 1558-366X (elec-
computer.org/comp/mags/
dl/mags/cs/2004/02/c2050abs.
.htm; http://csdl.computer.
org/dl/mags/cs/2004/02/c2050.
.htm; http://csdl.computer.
org/dl/mags/cs/2004/02/
c2050.pdf.

Dianne P. O’Leary. Multidi-
nimensional integration: Par-
tition and conquer. Com-
puting in Science and Engi-
neering, 6(6):58–66, Novem-
ber/December 2004. CODEN
CSENFA. ISSN 1521-9615 (print), 1558-
366X (electronic). URL
http://csdl.computer.org/
dl/mags/cs/2004/06/c6058.
.htm; http://csdl.computer.
org/dl/mags/cs/2004/06/c6058.
pdf.

D. P. O’Leary. Eigen-
values: valuable prin-
ciples. Computing in Sci-
ence and Engineering, 7(4):
68–70, July/August 2005.
CODEN CSENFA. ISSN
1521-9615 (print), 1558-366X (elec-
tronic). URL http://
ieeexplore.ieee.org/ie15/
REFERENCES


REFERENCES


[O'Leary:2005:FDF]


[O'Leary:2006:CSW]


[O'Leary:2006:CMA]


[O'Leary:2006:PSL]


[O'Leary:2006:SAW]


Oliveira:2013:TMA

OLeary:2003:DAP

Omerbashich:2006:GV

Oliveira:2011:PCA

Ong:2002:MRS

Onofri:2001:ECM

Omar:2017:DHS

**OLEary:2012:LSC**


**Orkoulas:2009:OMC**


**OLEary:2003:RCS**


**OLEary:2004:ACV**


**Oskoe:2007:CPM**


**Oliver:2019:WAC**

REFERENCES

Ott:2016:MCU

Oughstun:2003:CMU

OLeary:2001:CRI

Owen:2001:OSP

Pell:2012:MPC

Padua:2000:FC
REFERENCES

Pandey:2008:SED


Papka:2016:ESH


Post:2016:CREa


Post:2016:CSE


Parlett:2000:A


Parrinello:2000:SCS

Parigger:2012:CPA


Park:2016:SMS


Parashar:2013:CPP


Patterson:2002:TAT


Pouillon:2011:OSG


Ponciano:2014:VEH


Pradal:2019:VVU


Peng:2014:ID1


Peng:2009:DRR


Pegg:2012:NCC


Pekalski:2004:SGP


Peoples:2020:RBE

References


Ploeg:2021:SOS


Palmer:2015:OXT


Perez:2011:Pes


Pope:2010:AU

ISSN 1521-9615 (print), 1558-366X (electronic).

**Pierce:2021:ECP**


**Piskor-Ignatowicz:2016:ABC**


**Pierce:2004:BMV**


**Post:2015:EEP**


**Post:2018:SEU**


**Pancratov:2008:WCaA**

References

Pancratov:2008:WCAb


Pancratov:2008:WCAc


Peterkin:2002:VPE


Pan:2007:BBR


Pasquier:2018:SPC


Peng:2017:MAC


Pennington:2008:TST

Pletzer:2008:EFD

Poinot:2010:FGR

Przedzinski:2020:SDS

Post:2016:CREb
REFERENCES


REFERENCES

Post:2010:CEP

Post:2011:FCP

Post:2013:CFS

Post:2014:PDV

Post:2016:PTE

Pine:2020:CMC

Parker:2000:MCA

Pinto:2020:ECT
J. D. Pinto, C. Quintana, and R. M. Quintana. Exemplifying computational thinking scenarios in the age of COVID-

**Peterson:2001:CST**


**Press:2009:PAO**


**Post:2002:GEI**


**Petra:2014:RTS**


Sergios Papadimitriou, Konstantinos Terzidis, Sefina Mavroudi, and Spiridon Likothanasis. Scientific scripting for the Java platform with

**Papadimitriou:2011:SES**


**Putz:2016:OPN**


**Patrick:2000:GEI**


**Park:2010:MDS**


**Qian:2019:HPC**


**Qiang:2007:SRP**

REFERENCES

Quezada-Sarmiento:2020:KRM


Quan:2018:IIP


Quan:2019:IIP


Raffin:2016:PVC


Raghunathan:2006:MSD


Raghunathan:2007:PCA


Ramachandran:2018:APB


REFERENCES


Reif:2002:DLM


Reid:2003:FF


Reiter:2013:MSE


Reynolds:2000:SCI


Rundle:2012:CES


Rodrigues:2013:MAA


Rice:1999:PCS

REFERENCES


Oliver Rohrle. Simulating the electro-mechanical behavior of skeletal muscles. *Computing in Science and Engi-
REFERENCES


REFERENCES


[RTSS14a] M. Jordan Raddick, Ani R. Thakar, Alexander S. Szalay,


[SBB+15] Erik Schnetter, Marek Blazewicz, Steven R. Brandt, David M.
Koppelmann, and Frank Lor-  


Schlick:2000:CCS

Schulthess:2019:RGB

Sayeed:2008:MHP

Stonebraker:2013:SDM

Scales:2016:AAM
Sullivan:2018:FCE


Schreiner:1999:TCK


Schailie:2007:CC


Schillaci:2009:TT


Schnack:2014:MCA


Schneider:2015:IHC

REFERENCES

Schillaci:2016:MM

Schillaci:2017:PP

Schneider:2017:LBY

Schuster:2018:HEH

Schuster:2020:LGC

Schuster:2021:IMC

Shen:2017:PIE
[SCW+17] Bo-Wen Shen, Samson Cheung, Yu-Ling Wu, Jui-Lin F. Li, and David Kao. Parallel implementation of the ensemble empirical mode decomposition and its application for Earth science data analysis. Computing in Science and Engineer-
Schulte:2011:ADO

Schleife:2014:QDS

Santo:2020:NEP

Scofield:2010:XDF

Sendlinger:2008:TCE

Scherer:2000:SPV


Succi:2001:ALB


Siantar:2000:PBR


Steen:2010:NSF


Stromer-Galley:2018:UCD


Stone:2010:OPP

[SGS10] John E. Stone, David Gohara, and Guochun Shi. OpenCL:
REFERENCES


**Shires:2002:DCV**


**Shallit:2014:RED**


**Shen:2007:ISS**


**Shirer:1999:TNR**

REFERENCES


REFERENCES


Shirer:2002:MSW


Shirer:2002:POS


Shneiderman:2006:THD


Sletholt:2012:WDW

Magnus Thorstein Sletholt, Jo Erskine Hannay, Dietmar Pfahl, and Hans Petter Langtangen. What do we know about scientific software development’s agile practices? Computing in Science and Engineering, 14(2):24–37, March/April 2012. CODEN CSENFA. ISSN 1521-
<table>
<thead>
<tr>
<th>REFERENCES</th>
<th></th>
</tr>
</thead>
</table>
REFERENCES


[SL03] Kerby Shedden and Ker-Chau Li. Dimension reduction and spatiotemporal regression: Applications to neuroimaging. *Comput-


REFERENCES


REFERENCES


Smith:2001:IHB

Smith:2001:ICP

Smith:2003:UMP

Smith:2016:EAS

Salvadeo:2011:IFR

Stodden:2015:ROC
Sauer:2016:ATD


Shen:2013:INM


Sny:2013:BRB


Simmerman:2013:ESM


Sorensen:2019:JFP


Stathopoulos:2000:PMT

Andreas Stathopoulos, Serdar Öğüt, Yousef Saad, James Chelikowsky, and Hanchul Kim. Parallel methods and tools for predicting material properties. *Computing in Science and Engineering*, 2


Emanuele Santos, Jorge Poco, Yaxing Wei, Shishi Liu, Bob Cook, Dean N. Williams, and

Sohrabi:2012:HSP


Srinivasan:2013:RCT


Sharp:2007:VRP


Spotz:2002:GEI


Schulze:2006:RDC


Sterling:2009:HPC

Thomas Sterling and Dylan Stark. A high-performance computing forecast: Partly
REFERENCES


REFERENCES


REFERENCES


Stevenson:2014:WCW


Szalay:2008:SDL


Shen:2011:CAM


Sachs:2012:FER


Stodden:2009:LFR


Stodden:2012:RRT

REFERENCES

**Strawn:2010:HPC**


**Succi:2005:BEC**


**Sempolinski:2015:ACS**


**Sullivan:1999:ERC**


**Sullivan:1999:ECN**


**Sullivan:2000:ESC**


**Sullivan:2000:ENT**

Francis Sullivan. From the


Sullivan:2002:IA

[Sul02d] Sullivan:2002:OVT

[Sul02e] Sullivan:2002:TV

[Sul02f] Sullivan:2002:WN
REFERENCES


### Sullivan:2004:EFA


### Sullivan:2005:BR


### Sullivan:2005:LHF


### Sullivan:2006:BC


### Sullivan:2006:NAB


### Sullivan:2006:WIL

Francis Sullivan. What is it like to be a bot? *Computing in Science and Engineering*, 8(1):
Sullivan:2007:PWS


Sullivan:2007:WA


Sullivan:2008:CYE


Sullivan:2008:WLC


Sullivan:2008:TS


Sullivan:2009:GEI


Sullivan:2009:WTN

Francis Sullivan. That was then, this is now. *Computing in Science and Engineering*, 11(1):80, January/February 2009. CODEN CSENFA.
Sullivan:2010:AA

Sullivan:2010:STC

Sullivan:2010:WUS

Sullivan:2017:LMC

Sadlo:2011:VCB

Simpson:2014:NCC

Sartor:2010:MRE

Shang:2000:SAF
J. S. Shang, Marcus Wagner, Yi Pan, and Douglas C. Blake. Strategies for adopt-

[Shi:2008:FVU]

[Sza99]

[Sza11]

[SZM+13]

[Sza11]

[TAF+18]
Ibrahim Tanyalcin, Carla Al Assaf, Julien Ferte, François Ancien, Taushif Khan, Guillaume Smits, Marianne Rooman, and Wim Vranken. Lexicon visualization library and JavaScript for scientific data visualization. *Computing in


[TB11] Ricardo Taborda and Jacobo Bielak. Large-scale earthquake simulation: Computational seismology and complex


Thiruvathukal:2004:GLN

George K. Thiruvathukal.

Thiruvathukal:2005:GEI

George K. Thiruvathukal.

Thiruvathukal:2006:HN

George K. Thiruvathukal.

Thiruvathukal:2007:PHE

George K. Thiruvathukal.

Thiruvathukal:2009:CTD

George K. Thiruvathukal.

Thiruvathukal:2009:ICN

George K. Thiruvathukal.

Thiruvathukal:2010:YLC

George K. Thiruvathukal.
Thiruvathukal:2011:BCB


Thiruvathukal:2011:EUE


Thiruvathukal:2012:ALD


Thiruvathukal:2012:DD


Thiruvathukal:2013:CSD


Thiruvathukal:2013:PCO


Thiruvathukal:2013:WA


Thiruvathukal:2013:WNT

Thiruvathukal:2014:WWP


Thiruvathukal:2015:ADF


Thiruvathukal:2015:CCS


Thiruvathukal:2015:NGC


Thiruvathukal:2016:F


Thiruvathukal:2010:VCS


Thompson:1999:CPD

Thompson:1999:CPS


Thoresen:1999:WMT


Thompson:2000:CPV


Thompson:2001:CPP


Thornton:2012:PLS


Thyng:2020:IC


Tien:2016:PPM

REFERENCES


<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
</table>
Tang:2015:CTM

Tolk:2013:AAG

Tecuci:2018:EBD

Thompson:2002:PBF

Tobis:2005:POS

Tofan:2008:DCE
Daniel Tofan. Drawing chem-

**Tofan:2009:DCEa**


**Tofan:2009:DCEb**


**Tohline:2007:SVN**


**Tohline:2008:WMD**


**Tougaw:2000:TNR**


**Tougaw:2001:TNR**

REFERENCES

[Tou2002:FYW]

[Tou2002:SSP]

[Tou2003:NIR]

[Tow2009:TUF]

[Tow2018:TOS]

[TP04]

Thiruvathukal:2013:CC


Thijsse:2008:FDF


Tresler:1999:ECS


Touga:2002:SCE


Tohline:2010:VJS


Tsaftaris:2014:SGC


Thakar:2008:CAS


REFERENCES


REFERENCES

ISSN 1521-9615 (print), 1558-366X (electronic).


Vashishta:1999:LSA


Vlasak:2012:AAU


Vetter:2015:ONM


Vashishta:1999:GEI


Viamontes:2005:QSP


Venkatakrishnan:2020:HLS

REFERENCES


**Vorp:2001:CMA**


**Vos:2002:RTA**


**Vargas:2009:WER**


**Vieira:2018:AWL**


**Verma:2011:SRT**


**Viswanathan:2012:MCB**

Venkatasubramanian Viswanathan, Frank Wang, and Heinz Pitsch. Monte Carlo-based ap-


[Wofford:2020:JND] M. F. Wofford, B. M. Boscoe, C. L. Borgman, I. V. Pasquetto, and M. S. Golshan. Jupyter notebooks as discovery mechanisms for open science: Citation practices in the

**Washington:2019:RYW**


**Wolf:2015:PRC**


**Wolf:2017:MMM**


**Wang:2014:BDA**


**Wang:2002:GSV**


**Wu:2019:ODM**

Xun Wu, Tefang Chen, Yating Chen, Chaoqun Xiang, Zhi Liu, and Kaidi Li. An online diagnostic method for open-circuit faults of locomotive inverter based on output volt-


REFERENCES


**Winslow:2016:WPV**


**Wainer:2021:CSB**


**Wallcraft:2002:RTO**


**Woodward:2018:SSH**


**Will:2001:IFG**


**Wilson:2006:SCG**

[Wil06] Greg Wilson. Software carpentry: Getting scientists to write better code by making them more productive. *Com-
REFERENCES


**Woodward:2008:MSC**


**Wilson:2009:SEC**


**Windl:2001:CIP**


**Wan:2012:GDB**


**Wang:2014:ISD**


**Weigand:2000:ISC**

REFERENCES

ISSN 1521-9615 (print), 1558-366X (electronic). URL https://dl.acm.org/citation.cfm?id=3743530.3743540


REFERENCES


[XYYA+00] Ren-Jye Yang, Alexander Akkerman, Daniel F. Anderson, Omar M. Faruque, and Lei Gu. CSE in industry: Robustness optimiza-
REFERENCES

Yavneh:2006:WMM

Yokota:2012:HBS

Yao:2015:SHP


Yang:2010:DEE


Yang:2003:GEC


Yang:2003:NPU


Yang:2005:VHA


Yang:2007:AHM


Yildiz:2019:HHW


**Fu:2013:EPE**


**Yi:2005:RTN**


**Yang:2003:DES**


**Yin:2005:CAI**


**Yeh:2002:ALD**

Kao-San Yeh, Shian-Jiann Lin, and Richard B. Rood. Applying local discretization methods in the NASA finite-volume general circulation model. *Comput-
REFERENCES


[YMLJ06] Osman Yasar, Jose Maliekal, Leigh J. Little, and Dawn


REFERENCES


Ying Zhu, Jim X. Chen, Shide Xiao, and Edward B. MacM-


[Fuqing Zhang] Fuqing Zhang. The future of

Zhuge:2002:CSD


Zhu:2016:SMS


Zhou:2008:ESS


Zhang:2009:CCU


Zhu:2019:EOA


Zhang:2019:UER

Zakharian:2003:SNF


Zhang:2011:HIH


Zabaras:2007:ITA


Zhao:2019:GEI


Zhao:2020:TTL


Zeinalipour-Yazti:2004:IRT

Zhang:2006:UGA


Zeng:2019:RPS


Zhe-Zhao:2006:NIB