A Complete Bibliography of the ACM Transactions on Computing Education (TOCE)

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13 May 2024 Version 1.54

Title word cross-reference

 \times [GML⁺23].

1 [LRS21, Zin15]. 12 [BBSPK22, GES14, GYSH19, HAGM14, HAG15b, JK20, OWK21, Tag24, TM14, TSAA+23]. 16-18 [All23]. 19 [MSV+23].

2 [RSL22].

6 [IKWR22].

7th [SA20].

 $= [GML^{+}23].$

ABC [REB23]. ABET [Blu22]. Abilities [AJNN20, JNA18]. **Ability** [Tag24]. Abstraction [DSU20, KDV22, SSD09, SA20]. Academia [NJK19]. Academic [KPM18, WF24]. Academics [SDBJ19]. Academies [DLM11]. Accessibility $[CGZ^{+}20, PLB^{+}12, WCPF20, vdMHVH23].$ Accomplishment [ZD15]. according [MM12]. Accreditation [Blu22]. Achievement [AANK14, BJCS21, CHA17, Zin15]. ACM [BXS⁺24, Ko22a, TM09, CB19]. **Across** [AM21]. **Action** [IT17, LMGVS⁺16]. Active [VI13, IT13]. Activities [MDS16, MJC23, RKM20]. **Activity** [LC21]. Adaptive [VMAG22]. Adding [BLNC09, DJHGI19]. Address [RvJP20].

Adoption [EHBA⁺23]. Advocates [SYP24]. Affect [TAL17]. affordable [AGEL13]. African [EKSW11, TSAA+23]. After [PHRC21]. After-Hours [PHRC21]. Agenda [HOC17, SF19, TS20]. Agents [Par23]. Agile [FEC17, MSH10]. AI [TMSA22]. Aimed [Bra24]. Algorithm [Kar09, RVI09, SCA⁺10, UFVI09]. Algorithmic [Kie09]. Algorithms [EK17, VI13]. **Alice** [Coo10, UCK+10]. Alignment [Blu22]. All-Female [LBT20]. Alleviate [KV15]. Alliance [DBBR11, GHT^+11]. Alone [SNG $^+22$]. Aloud [WSLR23]. Alternative [BC12]. alternatives [Gri13]. Among [CGON24, MSV⁺23, Blu22]. Analogical [KMW22]. Analysis [Akd23, AANK14, BF23, DSUP20, FWD⁺24, GGT20, KG22, LMGVS+16, LSSM19, PDF15, RVAN15, Shi16, UR17, ZJWF11]. Analytics [GBB⁺17, GK17, HOC17, KG18, TWH18]. Analyze [VFFT16]. Analyzing [AHL17]. Android [Mod21]. Animation [Kar09, UFVI09]. **Answer** [JK20, Sho23]. Answers [HAG15b, RWS⁺24]. AP [SNG⁺22]. API [TCK21]. Application [CG19, Mod21, RMNC10]. Application-Oriented [RMNC10]. Applications [KMW22, TWH18]. Apply [Tag24]. Applying [ETN⁺21]. Approach [AANK14, BKZL23, BHHMG21, BC12, CMSP20, ETN+21, Joh19, KLS+14, MFM⁺16, Mod21, PGJS17, TAL17, VS22, CHM13]. Approaches [CHU⁺09, GBB⁺17, KLM15, KA16]. **Apps** [CMSP20]. Aptitude [VCMV23]. Architecture [Mit14, Shi16, SPR12, Wan11]. Architecture-Based [Shi16]. architectures [ZPB13]. Areas [KS14]. Arising [LC21]. Art [Ip12, PLF22]. Artificial [AMD22, LGGS22]. Artists [Fie19]. Arts

[BBD⁺10, BB10, BCD10, WK10]. **Asking** [Ten14]. Aspects [NCW22]. Assembly [SPR12]. Assess [HCAT23]. assessed [Lar16]. Assessing [BCZ19, DTT16, FDW19, MPDS24, Mod21, PGJS17]. Assessment [DJGIO20, DHH+15, Lai22, LFU23, LIG22, NCW22, PLF22, PE23, Ric09, RWS⁺24, RB22, SDBJ19, VMAG22]. Assessments [Alb20]. Assessors [DJGIO20]. Assignments [AvdM21, RRKP13]. **Association** [BSS20]. Associations [PCH09]. Athletic [Joh19]. Attainment [LZR24]. Attitudes [BBF⁺21, LLF22, Pad24, PLB⁺12, RVSW23, REB23, TABA12]. AuDeNTES [MM12]. Audience [AMD22]. Authenticity [LBM24]. Autograding [HBVTN21]. Automata [IIRY17]. Automated [KJH19, MBKS24, PLF22]. Automatic [LFU23, MM12]. Average [TWH18]. Aware [VGRM19]. Awareness [VGM⁺23].

Back [RS14]. Backward [TM15]. Bare [LMGVS⁺16]. Barrier [Ros23]. Barriers [GYSH19, PGJS17, Par23]. Based [AAGH14, BL14, DTT16, GGT20, GBB+17, HHM19, HOC17, KCB⁺23, Lai22, LMGVS⁺16, MFR13, MFM⁺16, MR22, O'G12, RT15, Ric09, RV09, RMNC10, SSSC18, Shi16, TAL17, WW17, HM22, $MGM^{+}23$, Mod21, VS22]. Basic [WZL⁺22]. BDSI $[WZL^+22]$. Be [SYP24, SNG⁺22, LGP13, Ros23]. Behavior [CHA17, COK24, DSS21, LFU23, LSTA22, PGJS17]. Behaviours [BBF⁺21]. Behind [PLB+12]. **Being** [RHSS20, VGM+23]. Beliefs [BA17, CGON24, FPSS22, FPSS23, REB23, Ros23]. Benchmarks [HB15]. Benefit [DCW19]. Benefits [MFCLG19]. Berkeley [CHH⁺11]. Between [DJGIO20, FPSS23, LRVW14, SDBJ19]. Beyond [Lai22, PG23]. Bi [Vog21]. Bi/Multilingual [Vog21]. Bidirectionally [RG19]. Binary [PCH09, RVSW23]. Black

[BSA+23, BSP24, FTD+24, FWD+24, LGGS22, MFH24, RTE21, RHSS20, TBB24, $WDC^{+}24$, WF24, $ETN^{+}21$]. Blending [CHA17, IT17]. **Block** [GBB⁺17, WW17]. Block-Based [GBB⁺17, WW17]. Blocks [Bra24, CG19]. Bloom [DTT16]. BlueJ [BS10]. **Bob** [RWS⁺24]. **Body** [DTT16]. Bolstering [BSA⁺23]. Boolean [HLKZ12]. Boot [LG21]. Bot [RWS+24]. Botswana [TSAA+23]. **Boy** [DBR+20]. **Brain** [CG19]. Brain-Computer [CG19]. Brains [CG19]. Brazilian [DBG+23]. Bridge [HM21]. Bridging [LRVW14]. Briefs [MR22]. Bring [RWK⁺15]. **Bringing** [HB15]. **Broadening** [CHH⁺11, DBBR11, LV11a, LV11b, Ros23]. Bugged [ABCD20]. Building $[SGHZS19, TDMN^+24].$

C [WX18]. Calculus [CKSS21]. California [TMSA22]. Camp [BSP24]. Camps [LG21, OPC17]. Can [ASG19, IDC+19, LGP13, SNG+22, Sho23]. Candidate [BKZL23]. Capital $[FTD^+24, VSK22]$. Capitalize $[IDC^+19]$. Capstone [DJGIO20, PD22, TBP21]. Capstones [SH18b]. Capturing [Lar16]. Cards [TBP21]. Career [DBR⁺20, LRJ14, MHP20, RHSS20, SNG⁺22]. Careers [BCZ19, OPC17, PG23, RCS11]. Case [BBD⁺10, BAR14, BCC⁺19, BWE11, DMBP22, GND19, GM11, KMB⁺15, LSSM19, Par23, SSD09, VS22]. Cases [SK24]. Cash [RMM21]. Cash-free [RMM21]. Causal [DBM24]. Centered [GMM17, LRS21, NAG⁺23, RSL22, RC13]. CER [DM23]. Challenges [ALHR17, BBG12, GES14, SGHZS19, VGRM19, VGM⁺23]. Change [AB24, FPSS22, PS21]. Characteristics [All23]. Characterizing [YB19]. Chat [HCAT23]. Chatbot [PD22]. ChatGPT [RWS⁺24, Sho23]. **Child** [HHM19]. Children [DCW19, WDC15, WDCT20, vdMHVH23].

China [CJS⁺17]. Chinese [TB16]. Choice [ASG19, LRJ14, MHP20, RHSS20]. Choices [MDS16]. Chutes [LD19]. CISing [YBV23]. Class [BHHMG21, PCH09, YR15]. Classes [Xin15]. Classifying [All23, SPC19]. Classroom [BWE11, GMM17, HB15, LSSM19, MRG17, SSSC18, Gri13]. Classroom-Based [SSSC18]. Classrooms [RPT+22, WW17, ZCJR20]. cloud [ZPB13]. clouds [RRKP13]. Co [TDMN⁺24]. Co-ML [TDMN⁺24]. Coaches [IKWR22]. Coaching [MRG17]. Code [ABCD20, CJS⁺17, DJHGI19, ILRD20, NCW22, SOB24, VMFG17, HAA13, LC21, NJK19]. Code.org [MMFR20]. CodePlus [LBT20]. Coding [BKZL23, KO22b, LG21, TK16, TMSA22]. Cognition [Rob22]. Cognitive [DZS22, LRJ14, RJJ10, TAL17]. Cohort [BTF⁺19]. Collaboration [Bol22]. Collaborative $[CDK^{+}14, MBSBA09, TDMN^{+}24, VFFT16].$ College [BJCS21, BSS20, CKSS21, EKSW11, GMM17, LR11, LD19, MDS16, RP19, WDK20]. Colleges [She13]. Collusion [KSCP22]. Color [DMBP22]. Combining [CDB⁺22, HCAT23]. Comments [VMFG17]. Communication [BBG12, KKNL21, MGM+23]. Communications [MAK12]. Communities [LC21]. Community [FKG17, KRH⁺24, LD19]. **Como** [Vog21]. Comparative [FWD⁺24]. Comparing [DSU20, ECF18, WW17]. Comparison $[CJS^+17]$. Competence $[SSB^+23, TSK12]$. Competency [BF23, Lai22]. Competitive [COK24]. Compiler [SSD09]. Complexity [EK17, KDV22]. Complications [TSV18]. Comprehension [KDV22]. Compulsory [DJHGI19, Hub12]. Computational [EVM24, FKG17, FEC17, GBB+17, KLS+14, KCB⁺23, KKNL21, KO22b, Lai22, LIG22, MBR23, PE23, RG19, SNOT21, Tag24,

TM11a, VMFG17, WDC15, WDCT20,

WHS⁺17, WSP⁺11, YMZ⁺14, YR15]. **Computer**

[AZK⁺20, All23, Arm11, BVNN22, BBD⁺10, BB10, BDDGT14, BAR14, BSA⁺23, BHHMG21, BBG12, Ber23, Blu22, BJCS21, BSP24, BWE11, BBF⁺21, BSCH14, BXS⁺24, BCD10, BSS20, CKSS21, $CMSP^{+}19$, CMSP20, CG19, $CHP^{+}18$, DCW19, DJGIO20, DBR+20, EBC+21, EHPR+23, EHBA+23, FPSS22, GES14, GM14, GM11, GMM17, GbGG⁺23, HB15, HM22, HHM19, Hub12, HAGM14, HAG15b, IIRY17, IKWR22, JMN+22, JK20, KWB20, KS14, KFME11, KMB⁺15, Lai22, LK19, LMGVS⁺16, LLF22, LZRO21, LSHY22, LD19, MFM⁺16, MHP20, MPDS24, MRG17, MMFR20, MW18, MR22, MSV⁺23, MFH24, NAG⁺23, PLF22, PGJS17, Par23, Pet19, PS21, PO20, RVAN15, RSPB17, RJJ10, RWK⁺15, RWS⁺24, REB23, RHSS20, RV09, RCS11, Ryo19, SNG⁺22, She13, SPR12, SA20, TK16, TB16, UR17, VCMV23, VFFT16, VSK22, Wag16]. Computer [WK10, WW17, WDK20, YB19, YBV23, YVQ^+10 , ZNF^+20 , ZCJR20, ZJWF11, AGEL13, Gri13, KG22, LGP13, Zin15]. Computer-Based [Lai22]. Computes [GEME14]. Computing [AM21, Bar09, BH16, BMB⁺18, BBF⁺21, BXS⁺24, Bur11, CHA17, CAL15, CB19, CGZ⁺20, CGON24, DBBR11, DMBP22, DLM11, DZS22, DBG⁺23, EKSW11, EBC⁺21, ETN⁺21, ET12, ECF18, FTD+24, FWD+24, GND19, $GHT^{+}11$, $GGH^{+}10$, GYSH19, GK17, HSI⁺19, HCSAz22, HM22, HOC17, KLS⁺14, KRH⁺24, KG18, LRS21, LV11a, LV11b, LSTA22, LR11, LRH+22, LZR24, LG21, MFR13, MHP20, MSK⁺23, MT23, MBE⁺16, MAHC⁺22, MDS16, MCK17, MW22, MS11, NAG⁺23, O'G12, OWK21, OHR22, Pad24, PM09, PG23, PCC⁺24, RB21, Rob22, RLN⁺22, RHSS20, RP19, RvJP20, RMM21, RSL22, SH18a, SDBJ19, SYP24, SNG⁺22, SSSC18, SH18b, SS23, TP23, TM09, TM10,

TM11a, TM11b, TM14, TC19, TM22, TBB24, TSAA+23, WCPF20, WF24, YR15, AGEL13, HAA13, NCLN13]. Concept [GGH⁺10, IIRY17, PHP⁺22]. Conceptions [RvJP20, VS22, Xin15]. Concepts [AWW15, KLS⁺14, KA16, MS11, WBK⁺22, YZC19]. Conceptual [TPQE18]. Conceptualizing [MT23, TM22, Ten23]. concurrency [CHM13]. concurrent [BAGM13]. Conditions [RPT⁺22]. Consider [NCW22]. Considerations [TBP21]. Considered [DJGIO20]. Considering [CGZ⁺20]. Consortium [BCD10]. construction [NCLN13]. Constructionist [MSH10]. Content [BSS20, EHBA⁺23, VMAG22, WCPF20, YB19]. Context [GEME14, LZRO21, ORS16, Rob22]. Contextualization [LBM24]. Continue [Ros23]. Continues [Hun17]. Continuing [All23]. Continuum [CB19]. Contributions [DM23, HCAT23]. Controlled [Bol22, DSUP20, DSU20, MC19, WX18]. Conversation [Ros23]. Conversion [HM21]. Cooperative [BC13]. Coordinator [RB22]. Copying [DJHGI19]. Core [JNA18, ZPB13]. Correctness $[DHH^+15]$. Counter $[EBC^+21]$. Counter-hegemonic [EBC⁺21]. Countries [GES14, TSAA⁺23]. Country [RVSW23]. Course [AHL17, BHHMG21, BTF⁺19, BCZ19, CKSS21, CDCLK17, EK17, IT17, KKLL16, LLKH18, MTGM21, NGK11, PDF15, RB22, Rit09, She13, SH10, WX18, Wan11, d'A10]. Courses [ASG19, CHA17, CDK+14, Ip12, MFCLG19, Mit14, OHR22, Pad24, Ric09, RB22, SSF⁺19, SNG⁺22, SBH⁺18, TBP21, TK16, UR17, VMAG22, HAA13, LGP13]. Coverage [ECF18]. COVID [MSV⁺23]. **COVID-19** [MSV $^{+}23$]. **CPD** [All23]. Crafts [KLS⁺14]. Crafts-Oriented [KLS⁺14]. Creating [Rit09]. Creation

[RWK⁺15]. Creative [Fie19]. Creativity

[ALP12, Sha22]. Creativity-Supporting [ALP12]. Critical [GHT⁺11, HOC17]. Cross [RVSW23, TM14]. Cross-Country [RVSW23]. Cross-National [TM14]. Crossing [HM21]. CS [Blu22, FPSS22, GML⁺23, HM21, KV15, LBT20, MJB⁺23, MSP21, PLB⁺12, RVSW23, RVAN15, RTE21, RB22, SWL⁺22, TABA12, TWH18, $VTB^{+}20$, VS22, $WDC^{+}24$]. **CS1** [BC13, ORS16, Sha22]. **CS2** [TPQE18]. CS4HS [RSPB17]. CS=Me [WDC $^+$ 24]. CSF [HBVTN21]. CSLE [ALP12]. CSS [PDF15]. CSTutor [BL14]. CUDA [DSU20]. Current [ALHR17, CAL15, RB21]. Curricula [AJNN20, BCD10, WCPF20]. Curriculum [Blu22, BMB⁺18, DTT16, McG12a, $NAG^{+}23$, $WHS^{+}17$, AGEL13]. Cyber [AJNN20, JNA18]. Cyber-Defense [JNA18]. Cybersecurity [BF23, JNA18, LRVW14, PHP+22]. **Cyprus** $[CJS^{+}17].$

Dance [DMBP22]. Darmstadt [RVAN15]. **Data** [AHL17, BA17, BL14, CHU⁺09, GBB⁺17, HCAT23, WZL⁺22, YR15]. Data-Driven [GBB⁺17, YR15]. Database [MTGM21]. Dataset [TDMN $^+$ 24]. **Debieron** [Vog21]. **Debugger** [BS10]. Debugging [ABCD20, DBM24, WSLR23]. Decade [CHH⁺11, JK20]. Decisions [HM22]. Defense [AJNN20, JNA18]. Degree [AANK14, McG12a]. Demo [KDXB18]. **Demo-Oriented** [KDXB18]. Demographics [LZRO21]. Derived [AHL17]. **Describing** [HLKZ12]. Description [LBM24]. Descriptive [Blu22]. **Design** [BC13, BC12, Bra24, Bur11, $CMSP^+19$, Coo10, DCW19, EKSW11, GML⁺23, Ip12, Joh19, KCB⁺23, LSSM19, OWK21, PCH09, RWK+15, RG19, RLN+22, Shi16, TSK12, TP23, TDMN+24, Xin15]. Design-Based [KCB⁺23]. Designers [MW22]. **Designing**

[BBSPK22, NCLN13, OHR22, Ric09]. Desk [Hun17]. **Detection** [MM12, NJK19]. Developing [MHP20, MR22, TSK12, TDMN⁺24, WHS⁺17]. **Development** [All23, AWW15, BCZ19, BCC+19, BBF+21, CG19, EVM24, HM19, HCAT23, Ip12, JMN⁺22, KO22b, Lar16, MSK⁺23, MJB⁺23, MW22, MC15, Mod21, PDF15, PHRC21, RSPB17, Rit09, REB23, VS22, VGRM19, VGM⁺23, ZD15]. **Devices** [RP19, TSK12]. Diagnosing [Kie09]. Dialog [KDM⁺23]. did [IT13]. Didactical [BDDGT14]. Difference [AM21]. Differences [Har21, RVSW23, SDBJ19]. Different [DSU20, DM23, KLM15, KA16, TAL17]. Difficult [EK17, YZC19]. Difficulties [HLKZ12, LBK11, MS19, QL17]. Digital [BC12, MW18, RG19]. Dimensions [TB16]. Directed [MBE⁺16]. Directedness [BBSPK22]. direction [IT13]. Discipline [MFR13, Pet19, TM10]. Discipline-Based [MFR13]. **Discovering** [VGRM19]. Discrepancies [DJGIO20]. Discrepancy [DBM24]. **Discrimination** [LLF22]. Discussion [UCK+10]. Disrupting [RLN⁺22]. **Distributed** [BTF⁺19, BCZ19, BCC⁺19, ORKH09]. District [PS21]. District-Wide [PS21]. Diversified [SNG⁺22]. Diversity [BVNN22, BCC⁺19, GML⁺23, GYSH19, LLF22, RBSS11]. division [LGP13]. Do [AB24, BBG12, LRH+22, MSP21, MFH24, NCW22, TAL17, CHP⁺18, HM22]. **Does** [DCW19]. Doesn't [MS11]. Domain [Bol22, MSK⁺23]. **Domain-specific** [MSK+23]. Domains [LRVW14]. Don't [GVA22]. down [ZPB13]. down-to-earth [ZPB13]. Driven [GBB⁺17, Shi16, YR15, CHM13, LMH21]. Drop $[DBG^+23]$. Drop-out $[DBG^+23]$. Dual [Rob22]. During [BSP24, RKM20, RJJ10, AL22]. Dynamic $[CHU^{+}09].$

Early [CHA17, MR22, OHR22, RSPB17, HAA13]. EarSketch [MFM⁺16]. earth [ZPB13]. Easing [Bra24]. Easy [WBK⁺22]. Ecosystem [FTD⁺24]. Editor [Hun17]. Editorial [MT23, RVI09, TM11a, TM11b, TM14, TM22]. Editors [BB10]. Educating [KSCP22]. Education [AMD22, AM21, BDDGT14, BLM+14, Blu22, BH16, BCC+19, BBF+21, BXS+24, Bur11, CAL15, CB19, CJS+17, DZS22, EKSW11, EBC⁺21, ET12, FTD⁺24, Fie19, GES14, GND19, GVA22, GbGG⁺23, GK17, GEME14, HSI⁺19, HCSAz22, HM19, HHM19, Hub12, HAGM14, HAG15b, HOC17, ILRD20, IIRY17, IKWR22, JK20, Joh19, KMW22, Kie09, KCB⁺23, KMB⁺15, KG18, KV15, LRS21, LV11a, LV11b, LMB⁺22, LSTA22, LMH21, LRVW14, LSHY22, $MFR13, MFM^{+}16, MSK^{+}23, MT23,$ MSV⁺23, MCK17, MBKS24, MW22, O'G12, OWK21, PLF22, PGJS17, PM09, PCC⁺24, RVAN15, RTE21, RWK⁺15, RLN⁺22, RVI09, RSL22, SYP24, SAyC+21, SH18b, SKM13, SS23, TS20, TP23, TM10, TM11a, TM11b, TM14, TC19, TM22, TWH18, TSAA+23, VMFG17, VSK22, WF24, YMZ⁺14, NCLN13, Sor13, TM09, CB19]. education-friendly [NCLN13]. Educational [Har21, KS14, LRH⁺22, MC19, UR17, ZPB13]. Educator [BA17]. Effect [Blu22, LBM24, MPDS24, MMFR20, RHSS20]. Effective [All23, ORS16, RJJ10, LGP13]. Effectively [ORKH09]. Effectiveness [MGM⁺23]. Effects [DJHGI19, DBR⁺20, MS11]. Efficacy [LBT20, RCS11, CMSP $^{+}$ 19, LY21, ZNF $^{+}$ 20]. Effort [RKM20]. Electronic [JK20, KLS⁺14]. Elementary $[KCB^{+}23, LIG22, VTB^{+}20, YMZ^{+}14].$ Elo [VMAG22]. Elo-rating [VMAG22]. Else [MRG17, RP19]. Emancipation [EBC⁺21]. Embodied [MCK17, MC19]. Emerging

[RB21]. **Emotions** [AL22, AB24]. emphasizing [IT13]. Empirical [AvdM21, GGT20, MFCLG19, MTGM21, Sho23, SS13]. Empiricism [HCSAz22]. Employability [IDC⁺19]. Employers [SWL⁺22]. Enabling [IDC $^+$ 19, LG21]. Encourage [ETN $^+$ 21]. Endeavors [CAL15]. Ended [DBM24]. Engagement [CDB⁺22, MBSBA09]. Engaging [KFME11]. Engineer [SK24]. Engineering [Akd23, AL22, AB24, BTF⁺19, CDK⁺14, CB19, DTT16, DJGIO20, FEC17, GVA22, Joh19, KFME11, MFR13, MPTV16, Mit14, Pet19, VMFG17]. Engineers [BCZ19, GGT20, MGM⁺23]. Enjoyment [ZD15]. Enter [LG21]. Entering [RB21]. Enthusiasm [Lar16]. Entry [TM11b]. Environment $[ALP12, CDK^{+}14, CDB^{+}22, COK24,$ DMBP22, Köl10, LMGVS⁺16, MRR⁺10]. Environments [FU10b, GYSH19, GBB+17, IDC+19, Kie09, VFFT16]. Epistemological [Ros23]. Equation [LRJ14]. Equations [BKZL23]. Equitable [GYSH19]. Equity [FKG17, IKWR22, KFME11, VS22, WCPF20, ZCJR20]. Equity-based [VS22]. **Errors** [MK19, MFA23, PDF15, TSV18]. Essential [ZD15]. Estimating [BKZL23]. Ethical [HM22, Pad24]. Ethics [BXS⁺24, HM22, MAHC⁺22, SSF⁺19]. **EU** [SOB24]. Evaluating [VGRM19, WCPF20]. Evaluation [Bra24, HCAT23, Joh19, KM16, KLM15, LFU23, PHP+22, RSPB17, Rit09, Shi16, Wan11, BC13, LY21]. Evaluations [UFVI09]. Event [LMH21]. Event-driven [LMH21]. Everyday [RvJP20]. Evidence [MR22, MGM⁺23]. Evidence-Based [MR22]. Exacerbates [Ros23]. Examination [Ip12, WK10, WF24]. Examining [DMBP22, JMN⁺22, RTE21, RHSS20, Zin15]. Examples [BNP11, MJC23]. Executing [SH18a]. Execution [BS10]. Exemplars [LMB⁺22]. Exercise [SGHZS19]. Exercises [DJHGI19, KJH19]. Existing [BF23].

Expanding [HM19]. Expect [GVA22]. Expectations [CGON24]. Experience [FKG17, Har21, Pet19]. Experienced [AL22, ET12, RB22]. Experiences [Bar09, BSP24, ECF18, KFME11, LRH⁺22, NAG⁺23, PG23, TBB24, WF24, YBV23]. Experiment [Bol22, WX18]. Experimental [VI13]. Expert [MFA23]. Experts [GVA22, SDBJ19]. Explain [VMFG17]. Exploration [LZRO21, MPTV16]. Exploring [ET12, GM11, HM19, RWS+24, VS22, Vog21, WDC^+24 , SNG^+22]. Expository [WSP+11]. Extending [KKNL21, MBSBA09]. Extensive [Wan11]. External [SBH⁺18]. Eye [MPDS24]. Eyes [KDV22, MRG17].

Fabrication [RG19]. Face [MGM⁺23]. Face-to-face [MGM⁺23]. Facilitate [Mit14]. Facilitating [SSSC18]. Factors [COK24, DJGIO20, DBG⁺23, LRJ14, Tag24, $WDC^{+}24$, ZD15]. Faculty [Bar09, GMM17, LSHY22]. Families [MSV⁺23]. Feedback [HBVTN21, KSCP22, KJH19, MBKS24, ORS16, SK24]. Female [KWB20, LBT20]. Fiction [GM14]. Field [SCA+10]. **Fight** [SYP24]. **Final** [CGZ+20]. Final-year [CGZ⁺20]. Findings [MR22]. Finnish [KV15]. First [AL22, AB24, BHHMG21, CK09, NGK11, VCMV23]. First-Year [AB24, AL22, VCMV23]. Fit [BBG12, MFH24]. Fitting [Ip12]. Fix [Ber23]. Flipped [LSSM19]. Flipping [IT17]. Focus [Ric09]. Following [LMGVS⁺16]. Forging [LSHY22]. Formal [GEME14, LBT20]. Formation [Ric09]. Formative [HBVTN21, KSCP22]. Formulation [TSV18]. Forum [CHP⁺18]. Forward [RS14, TM15]. FOSS [BMB⁺18]. Foundation [CHH⁺11]. Four [TSAA⁺23]. Fractal [EKSW11]. Fragile [MW18]. Framework [AMD22, FEC17, GBB⁺17, LSSM19, MHP20, MAHC⁺22, MW22].

Frances [SPR12]. free [RMM21]. French [BDDGT14]. friendly [NCLN13]. Fringe [MW18]. fsQCA [PGJS17]. Functional [IT17]. Future [LSHY22, TS20].

Gains [PGJS17]. Game [Bra24, DCW19, HHM19, LK19, McG12a, RWK+15, Rit09, TAL17, VGRM19, VGM+23, Wan11]. Game-Based [HHM19, TAL17]. Games [Ip12, WDC15, WDCT20]. Gamification [AZK+20, MFCLG19, MTGM21, RPT+22]. Gap [Akd23, LRVW14]. Gaps [GGT20, GVA22]. Gender [BVNN22, CHP⁺18, Har21, KFME11, KKNL21, RVSW23, RCS11, Wag16, WDC⁺24]. Generalized [BKZL23]. Generalizing [RVSW23]. Generation [BLNC09, CHU⁺09, EBC⁺21, KJH19]. Generic [SKM13]. Genesis [TC19]. Georgia [GEME14]. Germany [KMB+15]. Get [MS19]. Getting [OPC17]. Girl [OPC17]. Girls [BSP24, ETN+21, FTD+24, MFH24, TBB24]. GitHub [HCAT23]. Global [BTF⁺19, CB19, FDW19, IDC⁺19, SGHZS19, VGRM19, VGM $^+$ 23]. Go [DMBP22]. Goals [CHP+18, MS11, SPC19, Zin15]. **Google** [RSPB17]. Governance [GND19]. GPU [DSU20]. **Grade** [KKNL21, SA20, TWH18]. Grades [Zin15]. Grading [AvdM21, MBKS24]. Graduate [KG22]. Graduates [CGON24, SWL⁺22]. Grand [TP23]. Graphical [SSB+23]. Graphics [She13]. GRASP [TSK12]. Greater $[GML^+23]$. Greedy [VI13]. Greek [TAL17]. Greenfoot [Köl10, UCK+10]. Grounded [HM22, RP19, SMGF24]. **Group** [AvdM21, Ric09]. **Groups** [RBSS11]. **GSD** [VGRM19]. **GSD-Aware** [VGRM19]. **GSE** [HM19]. **Guest** [BB10]. **Guide** [SH18a]. Guided [NGK11]. Guidelines [TP23].

H [BMB⁺18]. **H/FOSS** [BMB⁺18].

Hackathons [Har21]. Happens [RMM21]. Hard [SPC19, WBK⁺22]. Hardas [DMBP22]. Hardware [BC12, LRVW14]. hegemonic [EBC⁺21]. Help [COK24, HS13]. Help-seeking [COK24]. Helping [RT15]. Heuristic [KM16]. High [BSS20, CKSS21, DLM11, KLS+14, MFM⁺16, MSV⁺23, MSH10, Par23, TPQE18, WW17, WDK20, ZNF+20, ZCJR20, ZJWF11, AGEL13]. High-Level [TPQE18]. high-performance [AGEL13]. Higher [AMD22, CJS⁺17, GbGG⁺23, ILRD20, MSV⁺23]. Hired [LZR24]. Hiring $[SWL^+22]$. Hispanic $[GHT^+11]$. Hispanic-Serving [GHT⁺11]. Hispanics [GHT⁺11]. **Historical** [BDDGT14, LZRO21]. **History** [BCD10]. Holistic [NGK11]. Home [BBF⁺21]. Hours [PHRC21]. HTML [PDF15]. Human [KG22, RC13]. human-centered [RC13]. Human-computer [KG22]. Hybrid [LSSM19]. Hypertext [Kar09]. Hypertextbook [RV09]. Hypothesis [GBB⁺17]. **Hypothesis-Driven** [GBB⁺17].

i*CATch [NCLN13]. ICT [TSK12]. IDE [HOC17, OHR22]. IDE-Based [HOC17]. Ideas [SNOT21]. Ideation [LLF22, TBP21]. Identification [RJJ10]. Identify [LRJ14]. Identifying [AANK14, GVA22, LK19, WBK⁺22]. Identity [DMBP22, GbGG⁺23, JMN⁺22, KRH⁺24, LRH⁺22, MHP20, RTE21, WDC⁺24]. **IEEE** [DTT16]. Impact [AZK⁺20, BCZ19, BJCS21, CDCLK17, KG22, KRH+24, KA16, LK19, LY21, $MJB^{+}23$, MDS16, $MSV^{+}23$, PS21, $PLB^{+}12$]. Impacts [MR22]. Impairments [LR11, vdMHVH23]. Implement [HAG15b]. Implementation [LMGVS⁺16, BC13]. Implementing [AGEL13, MMFR20]. Implications [Bur11, UR17, VSK22, HM22]. Implicit [FPSS23]. Importance [ECF18].

Important [FTD⁺24]. Improve [LFU23]. Improved [OHR22, TWH18]. Improving [IT17]. In-Classroom [MRG17]. In-Code [VMFG17]. Incarceration [SAyC⁺21]. Including [PLB⁺12]. Inclusion [IKWR22, LLF22]. Inclusive [GML⁺23]. Income [MSV⁺23]. Incorporating [SDBJ19]. Increase [CMSP⁺19]. Increases [RKM20]. Incremental [RKM20]. Incubators [LC21]. Indian [RVAN15]. Individual [HCAT23]. Industry [Akd23, Ip12, MAK12, MSP21]. Ineffective [RJJ10]. Inequities [Ros23]. Influence [DJGIO20]. Influences [McG12b]. Influencing [COK24]. Informal [CMSP+19, GEME14, LC21, SAyC+21]. Informatics [BLM⁺14, KS14]. Information [BF23, CHH⁺11, KKNL21, KPM18, MHP20, MAK12, RCS11, YBV23]. Informatively [WBK⁺22]. Informed [CMSP+19]. ing [DMBP22]. Inheritance [LBK11]. Initial [FU10b]. Initiatives [PS21]. Injections [TK16]. Insights [SPC19, TAL17]. INSPIRED [DLM11]. Institutional [BMB⁺18, LD19]. Institutions [CJS⁺17, GHT⁺11]. Instruction [LIG22, MJB+23, MW18, Shi16, LGP13]. Instructional [IKWR22, BC13]. Instructor [AWW15, SPC19]. Instrument [REB23]. Instruments [MSK⁺23]. Insufficient [KV15]. Integrate [KCB⁺23]. Integrated [RG19]. Integrating $[CDK^{+}14, HAA13, SSF^{+}19, TK16].$ Integration [BSY⁺10, KPM18]. Intelligence [AMD22, FPSS23, LGGS22]. Intent [DBG⁺23]. Intention [ZD15]. Intentions [DBR⁺20, SNG⁺22, TABA12]. Interaction [CHU⁺09, KG22, OHR22]. Interactions [MC19]. Interactive [BSY⁺10, HEE⁺19, JK20, TSK12]. Intercultural [AM21]. Interest [BJCS21, CMSP⁺19, DBR⁺20, MW22, OPC17, Zin15]. Interface [CG19]. Internship [KG22].

Internships [KG22, MSP21]. Intersection [RHSS20]. Intersectional [TBB24, WF24]. Intersectionality [LZRO21]. Intersections [Vog21, WDC⁺24]. **Intervening** [DBM24, EK17]. **Intervention** [GEME14, RKM20]. Interventions [FWD⁺24, LK19, LY21, OHR22, Pad24]. Interviews [AJNN20, JNA18, LSHY22]. Intro [MMFR20]. Introduce [EHPR+23]. Introducing [Bra24, CG19, KLS+14, MFR13, TM09]. Introduction [BB10, BAR14, BAGM13, GM14, Gri13, Hub12, LRS21, LV11a, MC15, RB21, RSL22, SF19, TBB24]. Introductory [BBG12, BNP11, CKSS21, COK24, GGH⁺10, KLM15, KA16, LY21, NAG⁺23, QL17, RB22, SKM13, TK16, WX18, Sor13]. Inventories [GGH⁺10]. Inventory [PHP⁺22]. **Investigate** [BKZL23]. Investigating [MS19, SOB24, TSAA+23, ZD15]. Investigation [HSI⁺19, MFCLG19, SS13, Xin15]. Investigations [LGGS22]. Involvement [BBF⁺21]. Involving [SBH⁺18]. Israel [GES14]. **Issue** [CB19, FU10b, KG18, LV11a, LV11b, MT23, MC15, RB21, RSL22, TBB24, BAGM13, Gri13]. Issues [CAL15, KKNL21, KDM⁺23]. Italian [BLM⁺14]. **Iteratively** [EK17].

Java [BNP11, BA17, BWTS⁺23]. Job [ECF18, LZR24]. Justice [AM21, ETN⁺21, LRS21, RSL22]. Justice-Centered [LRS21, RSL22].

K-12 [BBSPK22, GYSH19]. Keep [PD22]. Keeping [Hun16]. Kenya [TSAA+23]. Kingdom [McG12a]. kit [NCLN13]. Know [SDBJ19]. Know-how [SDBJ19]. Knowledge [AJNN20, DTT16, DM23, ECF18, GGT20, JNA18, Sho23, TCK21, YB19]. Korea [CAL15].

Ladders [LD19]. Landscape [PE23]. Language [BWTS⁺23, KMW22, MRR⁺10, MPDS24, SPR12, SS13, Vog21, VCMV23]. Languages [KA16]. Large $[BVNN22, BTF^{+}19, BA17, SH18b].$ Large-Scale [BA17]. Latina [ETN⁺21]. Latino [ZJWF11]. Launching [SF19]. Leadership [PS21]. Learn [GVA22, JNA18, LC21, MBE+16, PHRC21, RT15, TB16, ZD15, HS13]. Learn-to-code [LC21]. Learnable [CGON24]. Learned [SWL⁺22]. Learner [Kie09]. Learning [AZK+20, AANK14, ALP12, BBG12, BS10, Bol22, BSY⁺10, CDK⁺14, CDB⁺22, CHP⁺18, DMBP22, DTT16, DJHGI19, Fie19, FU10b, FPSS23, GYSH19, GBB⁺17, GK17, HEE+19, HHM19, HOC17, IDC+19, Kie09, KG18, KA16, LLKH18, LMGVS⁺16, LZT⁺19, LBK11, LIG22, MSK⁺23, MRG17, MBE+16, MAHC+22, McG12b, MAK12, MS11, MS19, MBSBA09, O'G12, PCH09, PHRC21, RT15, RG19, RPT+22, RvJP20, RMM21, SSF⁺19, SSSC18, SF19, SMGF24, SPC19, SS23, TMSA22, TAL17, TB16, TDMN⁺24, TPQE18, VI13, VFFT16, WDC15, YBV23, BC13]. lecture [Gri13]. Led [RLN⁺22, MAHC⁺22]. Left [PLB⁺12]. LEGO [SGHZS19]. Lens [Arm11]. Lessons [EHPR+23, OPC17, RSPB17]. Let [Ros23]. Level [TPQE18]. Levels [Lar16]. Liberal [BBD⁺10, BB10, BCD10, WK10]. Libraries [RLN⁺22]. Life [BBG12]. Limited [Rit09, Ros23]. Limits [LFU23]. Lines [ALHR17]. Link [MBR23]. Linking [OPC17]. Literacy [KKNL21, MW18]. Literal [MS19]. Literature [BXS⁺24, EVM24, GbGG⁺23, HCSAz22, KJH19, LSTA22, PCC⁺24, PO20, QL17, Sha22]. Load [DZS22]. Local [BTF⁺19]. Logic [HLKZ12]. Long [LK19]. Long-Term [LK19]. Longitudinal [BCC⁺19, MAHC⁺22, OPC17, Pet19]. **Look** [MK19, OPC17, RS14, TM15]. Looking [Arm11, TM15]. Low [LZT $^{+}$ 19].

Low-performing [LZT⁺19]. Lower [IIRY17, MSV⁺23].

Machine [BLNC09, Fie19, LMGVS+16, LZT⁺19, SSF⁺19, SF19, SPC19, TDMN⁺24]. Machines [FU10a, MBR23, Sor13]. Major [LRJ14, MDS16, SNG+22, ZJWF11]. Majority [RBSS11]. Majors [AZK⁺20, RB22, SPC19, WDK20]. **Make** [HM22, MS11]. **Making** [CMSP20, RG19]. Maladaptive [FPSS23]. man [RMM21]. Manager [VGM+23]. Managing [BCC⁺19]. **Many** [HAG15b, ZPB13]. many-core [ZPB13]. Mapping [BSA⁺23, LMH21, TS20]. MapReduce [RRKP13]. Materials [vdMHVH23]. Mathematical [DHH⁺15]. Matters [TM10]. Measurement [DSUP20, KKNL21, WDCT20, RRKP13]. Measures [CHA17]. Measuring [GBB+17, Lar16, LBT20, WDC15]. Mechanisms [SOB24]. Medium [She13]. Medium-sized [She13]. Memoriam [HAG15a]. Mentoring [BSP24, MSH10]. Mentors [BSP24]. Merging [Kar09]. Meta [DCW19, UR17]. Meta-Analysis [UR17]. Meta-Synthesis [DCW19]. Metacognition [LMB⁺22]. Method [AHL17, VI13, VFFT16]. Methodology [MSH10, SH18a]. Methods [FEC17, LLKH18, PO20, BC13]. Middle [DBR⁺20, FEC17, KO22b, MR22, OPC17, TABA12, WSP⁺11]. Middle-School [TABA12]. Milestones [SNOT21]. Mindset [RKM20]. Mindsets [FPSS22]. Minecraft [KO22b]. **Mirror** [BSP24, LGGS22]. Misconceptions [QL17]. Missing [MBR23]. Mistakes [BA17]. Mittermeir [HAG15a]. ML [TDMN $^+$ 24]. MLeXAI[RMNC10]. **Model** [BF23, BBF⁺21, BCD10, EHBA⁺23, HOC17, LMGVS⁺16, RVAN15, RMNC10, Shi16, SK24, SSB+23, TDMN+24, WDCT20, CHM13]. model-driven [CHM13]. Modeling

[Bol22, LRJ14, Mit14, SSB+23]. **Models** [BF23, Blu22, CHA17, MSK⁺23]. Moderator [RPT⁺22]. MOOC [CHP⁺18, KV15]. Most [EK17]. Motivate [BHHMG21]. Motivated [ASG19]. Motivation [MBE⁺16, McG12b, NGK11, WF24]. Motivations [CGZ⁺20]. Move [RS14]. Movements [MPDS24]. Multi [BMB+18]. Multi-Institutional [BMB+18]. Multilingual [JMN⁺22, Vog21]. Multimodal [RG19]. Multiple [ASG19, CHU⁺09]. Multiple-Choice [ASG19]. multipurpose [NCLN13]. Musicians [Fie19]. Must [SYP24]. Myself [MRG17].

National [KWB20, TM14]. Navigating [FTD⁺24]. **Need** [Ber23]. **Needed** [DM23]. Needs [Ip12]. Network [MW18]. Networks [PO20]. Next [KMW22, Ko22a]. Nexus [MAK12]. Nigeria [TSAA+23]. No [PLB⁺12]. **Non** [DJHGI19, GVA22, Har21, LBT20, SPC19, RB22]. Non-Compulsory [DJHGI19]. Non-CS [RB22]. Non-Formal [LBT20]. Non-Majors [SPC19]. Non-Technical [GVA22]. Non-traditional [Har21]. nontraditional [RC13]. Normative [Blu22]. Norms [HCSAz22]. North [KMB⁺15]. North-Rhine [KMB⁺15]. **Noticing** [DBM24]. **Notional** [MBR23, Sor13]. Novice [ABCD20, BA17, BWTS+23, CG19, KM16, MK19, MS19, WSLR23, Xin15]. Novices [RT15]. **NZ** [BAR14].

Object

[AANK14, BS10, KKLL16, Shi16, Xin15]. Object-Oriented [AANK14, BS10, KKLL16, Shi16, Xin15]. Objectives [PM09]. Objects [Xin15]. Offering [Par23]. One [KMW22]. Online [BBG12, DJHGI19, FKG17, HM21, VMAG22, VFFT16]. Open

[DBM24, HM19]. Open-Ended [DBM24]. operating [ZPB13]. Opportunities [CHH+11, PS21]. Optimization [SSD09]. Orientation [RCS11]. Oriented [AAGH14, AANK14, BS10, KLS+14, KKLL16, KDXB18, RMNC10, Shi16, Xin15, d'A10, AGEL13]. Other [Fie19, QL17]. Our [SYP24]. Outcome [LLKH18]. Outcomes [AZK+20, OHR22, WX18]. Outreach [LK19, LBT20]. Outsiders [MFH24]. Own [MBE+16].

Pair [BJCS21, BWE11, UR17]. Pair-Programming [UR17]. Paradigms [DSU20]. Parallel [DSUP20, BAGM13]. Parental [BBF⁺21, CMSP⁺19]. Part [LV11a, LV11b, LRS21, RSL22]. Partially [ORKH09]. Participating [FKG17]. Participation [CHP+18, CHH+11, DBBR11, ETN+21, FKG17, KWB20, LV11a, LV11b, LZRO21, MPTV16, PG23, Pet19, Ros23, SOB24]. Participatory [RLN⁺22]. Partnership [EHPR⁺23]. **Pass** [SSD09]. **Path** [LSHY22]. Pathway [LD19]. Pathways [DBM24, LK19, LZR24]. PatternCoder [PCH09]. Patterns [Bol22, PCH09]. Pedagogical [EHBA+23, TSK12, VSK22, YB19, HAA13]. Pedagogy [BSS20, Ryo19, Zin15]. Peer [HCAT23, ILRD20, MJB⁺23, MAHC⁺22, TPQE18, LGP13]. Peer-led $[MAHC^{+}22]$. Peers [BBSPK22]. Penalties [LFU23]. Pensarse [Vog21]. People [SNOT21]. Perceived [ZD15]. Perception [AAGH14, vdMHVH23]. Perceptions [AvdM21, Bar09, BJCS21, CMSP+19, ECF18, MDS16, ZCJR20]. Perceptual [CJS⁺17]. **Perfect** [MS11]. **Performance** [DSUP20, DJHGI19, KWB20, LY21, MTGM21, RKM20, Wag16, WZL⁺22, YB19, AGEL13]. **Performative** [DMBP22]. performing [LZT⁺19]. Persistence [BSA+23, CHP+18, FWD+24, WDK20].

Personal [McG12b]. Personalization [BSY⁺10]. **Perspective** [AWW15, BMB⁺18, LIG22, TM14, VSK22]. Perspectives [BDDGT14, HAGM14, IKWR22, KLS⁺14, MSV⁺23, MFA23, RB22, YZC19, TP23]. Phase [Shi16]. Phenomenographic [LZR24]. Philosophical [WK10]. Physical [RG19, NCLN13]. Picture [KWB20]. Pilot [EHPR⁺23]. **Plagiarism** [Alb20, CJS+17, KSCP22, MM12]. Planning [McG12a]. Platforms [MCK17]. Play [HHM19]. Playing [RPT+22]. Plays [FTD⁺24]. **POGIL** [HS13]. **Point** [MS19, TWH18]. **Points** [GHT⁺11, TM11b]. Policy [GEME14]. Polymorphism [LBK11]. **Populations** [MFM⁺16]. Positive [Hun16, Hun17]. Potential [DBG⁺23, GK17]. **Power** [RTE21, Vog21]. Powerful [RvJP20]. Practical [O'G12]. Practice [CB19, EHPR+23, KRH+24, MR22, MS11, PE23, UR17]. Practices [ALHR17, KLS⁺14, KFME11, TDMN⁺24]. Practitioner [MSV⁺23]. Practitioners [Fie19]. **Pre** [EKSW11, LR11, MDS16, RP19]. Pre-College [EKSW11, LR11, MDS16, RP19]. Predict [CHP+18, LZT+19, LRH+22, Tag24]. Predicting [WDK20]. Prediction [LLKH18]. **Predictive** [CHA17]. Predictors [BKZL23, CKSS21]. Preface [FU10b]. **Preparation** [Arm11]. Prescriptive [Blu22]. Present [LSHY22]. Presuppositions [Ten14]. Primary [EHBA+23, HAGM14, IIRY17]. **Principles** [DHH⁺15, MJB⁺23, MMFR20, ORS16, SNG⁺22]. **Prior** [Sho23]. **Privacy** [TBP21]. Privilege [RTE21]. Problem [DTT16, Kie09, LBM24, O'G12]. Problem-Based [DTT16, O'G12]. Problem-Solving [Kie09]. Problems [AANK14, AB24, Kie09, PE23]. Procedural

[SSD09]. Process

[CK09, HOC17, McG12a, Rob22]. Processes [RJJ10]. Processors [SH10]. Procrastination [PD22]. Product [ALHR17]. **Productivity** [DSU20]. Professional [All23, CGON24, EVM24, ET12, ECF18, FDW19, KPM18, MJB⁺23, PHRC21, RSPB17, SDBJ19, SSSC18, VS22, YZC19]. Professionals [AJNN20, BF23, JNA18]. Professions [LG21]. Profiles [KPM18]. Program [DSS21, EHPR+23, HM21, KRH⁺24, KDV22, McG12b, RSPB17, RT15, RVI09, SKM13, UFVI09, HS13]. Programadores [Vog21]. Programme [LBT20]. Programmed [WDCT20]. Programmer [MK19, YZC19]. Programmers [ABCD20, CG19]. **Programming** [ASG19, AvdM21, Alb20, AAGH14, AANK14, AMSBA15, AL22, AB24, BJCS21, Bra24, BWE11, BA17, BWTS+23, BSY+10, CHA17, CK09, COK24, DSUP20, DSU20, DCW19, FKG17, GBB+17, IT17, KKLL16, KMW22, KSCP22, KJH19, Köl10, KM16, KLM15, KA16, LLKH18, Lai22, LK19, LY21, LMB⁺22, LMH21, MRR⁺10, MPDS24, MMFR20, MFCLG19, MCK17, MC19, MBKS24, MS19, MJC23, NGK11, OHR22, PCH09, QL17, RKM20, RJJ10, RB22, RPT⁺22, RS14, SMGF24, SKM13, SS13, TAL17, UR17, VCMV23, VMAG22, WX18, WW17, WDC15, WHS⁺17, Xin15, YZC19, vdMHVH23, BAGM13, IT13, Sor13]. **Programs** $[BBD^{+}10, BSA^{+}23, BS10, CMSP^{+}19,$ DBG⁺23, McG12a, PG23, RBSS11]. Project [FDW19, IT17, LMGVS+16, Ric09, RMNC10, SBH⁺18, VGM⁺23, Wan11].

[LMGVS⁺16, Ric09, RMNC10]. **Projects**

HCAT23, MSH10, Mit14, PD22, PLB+12,

SH18a, SSSC18, SH18b, TBP21]. Promising

[BH16, BMB⁺18, BBSPK22, DJGIO20,

[KFME11]. Promote [LR11, OHR22].

Project-Based

Promoting [KFME11, TBP21]. Prototype [RV09]. Prototyping [KDXB18].
Psychometric [PHP+22]. Public [BVNN22, SYP24]. Publications [BXS+24].
Purpose [TMSA22]. Purposeful [KV15].
Pyrates [Bra24]. Python [Bra24, WX18].

Qualitative

[AL22, KG22, RB22, SMGF24, YR15]. Quality [BNP11]. Quantitative [KLM15]. Query [TSV18]. Questions [ASG19, HAG15b, Sho23, Ten14].

R1 [BVNN22]. **Race** [VS22, WDC⁺24]. Racism [VS22]. Raise [VGM⁺23]. Randomized [DSUP20, DSU20]. Raspado [RMM21]. rating [VMAG22]. Re [RVSW23, RB21]. Re-Entering [RB21]. Re-Validating [RVSW23]. react [IT13]. Real [AMSBA15, BHHMG21, LMGVS+16, TBP21]. Real-World [TBP21, BHHMG21]. Realist [Pad24]. Reasoning [DBM24, DHH⁺15]. **Recognised** [DM23]. Recommendation [VMAG22]. Reconfigurable [SH10]. Recruiting [CMSP20]. Recursion [HEE $^+$ 19]. RecurTutor [HEE+19]. Redesign [TSK12]. Redesigning [KKLL16]. Reference [MS19, MM12]. Reference-Point [MS19]. Reflect [PG23]. Reflections [ET12, Mal23]. Reform [GM11]. Regarding [TABA12]. Regression [LFU23]. Regular [GML⁺23]. Regulation [FPSS23, LMB⁺22, SMGF24]. Rehabilitation [NGK11]. Related [WDK20]. Relation [Ten23]. Relationship [FPSS23]. Relationships [RHSS20, SS23]. Relevant [KS14]. Remotely [MC19]. Replications [HSI⁺19]. Reporting [BVNN22, HCSAz22]. Reports [KG22]. required [IT13]. Research [BVNN22, Bar09, DCW19, DZS22, EHPR⁺23, GM14, GbGG⁺23, HSI⁺19, HB15, HCSAz22, HOC17, IT17, JK20, KCB⁺23, KFME11, LMGVS⁺16, MT23,

MAK12, PM09, SSSC18, SF19, SS23, TS20, TP23, TM11b, Ten14, TM22]. Research-Practice [EHPR⁺23]. Researcher [Ten23]. Researcher-Theory [Ten23]. Researchers [MW22]. Resources [Rit09]. Response [LLF22]. Responsible [MAHC⁺22, RMM21]. **Responsive** [RG19]. Restart [BSCH14]. Results [AJNN20, JNA18]. Resurgence [BSCH14]. Retaining [FWD⁺24, HM21]. Retention [DBG⁺23]. Reusing [ABCD20]. Review [Alb20, BXS⁺24, DZS22, EVM24, GbGG⁺23, HCSAz22, HOC17, ILRD20, KJH19, LSTA22, LMH21, MBKS24, MJC23, NJK19, Pad24, PLF22, PCC+24, PO20, QL17, Sha22, SKM13, TPQE18, YBV23]. reviews [HAA13]. Rhine [KMB⁺15]. Rigorous [HAG15b]. Robot [MC19]. Robotics [LR11, MCK17, WHS⁺17]. Robots [McG12b]. Robust [CHU⁺09, LZT⁺19, TCK21]. **Roland** [HAG15a]. Role [FTD $^+$ 24, OWK21, PGJS17, RBSS11, SNG⁺22, TP23, IT13]. Rubric [WCPF20]. Rules [DSS21]. Rural [TMSA22]. Russia [KS14].

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Bell:2014:CSI

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[BBSPK22]

[BC12]

[BCZ19]

[BDDGT14]

[Ber23]

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[Bur11]

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[BSCH14] Neil C. C. Brown, Sue Sentance, Tom Crick, and Simon Restart: Humphreys. resurgence of computer science in UK schools. ACM Transactions on Computing Education. 14(2):9:1-9:??, June 2014. CO-DEN ???? ISSN 1946-6226.

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[CDCLK17]

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[CGON24]

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 $[CHH^{+}11]$

Orpheus S. L. Crutchfield, Christopher D. Harrison, Guy Haas, Daniel D. Garcia, Sheila M. Humphreys, Colleen M. Lewis, and Peter Khooshabeh.

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[CHP⁺18] R. Wes Crues, Genevieve M. Henricks, Michelle Perry, Suma Bhat, Carolyn J. Anderson, Najmuddin Shaik, and Lawrence Angrave. How do gender, learning goals, and forum participation predict persistence in a computer science MOOC?

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Jody Clarke-Midura, Chongning Sun, Katarina Pantic, Frederick Poole, and Vicki Allan.

[d'A10]

[DBBR11]

 $[DBG^+23]$

[DBM24]

Using informed design in informal computer science programs to increase youths' interest, self-efficacy, and perceptions of parental support. ACM Transactions on Computing Education, 19(4):37:1-37:??, November 2019. CO-DEN ???? ISSN 1946-6226. URLhttps://dl.acm.org/ ft_gateway.cfm?id=3319445.

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Jody Clarke-Midura, Chongning Sun, and Katarina Pantic. Making apps: an approach to recruiting youth to computer ACM Transactions science. on Computing Education, 20 (4):30:1-30:23, November 2020. CODEN ???? ISSN 1946-6226. URL https://dl.acm.

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Teresa Dahlberg, Tiffany Barnes, Kim Buch, and Audrey Rorrer. The STARS alliance: Viable strategies for broadening participation in computing. ACM Transactions on Computing Education, 11(3):18:1-18:??, October 2011. CODEN ???? ISSN 1946-6226.

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Dou:2020:ECS

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[DJHGI19]

[DLM11]

[DM23]

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Monique Ross, Laird Kramer,
and Vishodana Thamotharan.
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middle school boys' career intentions. ACM Transactions on
Computing Education, 20(3):
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César Domínguez, Arturo Jaime, Jónathan Heras, and Francisco J. García-Izquierdo. The effects of adding noncompulsory exercises to an online learning tool on student performance and code copy-ACM Transactions on Computing Education, 19(3): 16:1–16:??. June 2019. CO-DEN ???? ISSN 1946-6226. URL https://dl.acm.org/ ft_gateway.cfm?id=3264507.

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Steve Draper and Joseph Maguire. The different types

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[DMBP22]

Kayla Desportes, Kathleen Mc-Dermott, Yoav Bergner, and William Payne. "Go[ing] Hard...as a Woman of Color": a case study examining identity work within a performative dance and computing learning environment. ACM Transactions on Computing Education, 22(4):49:1–49:??, December 2022. CODEN ???? ISSN 1946-6226. URL https: //dl.acm.org/doi/10.1145/ 3531000.

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[DTT16]

[DZS22]

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Ron Eglash, Audrey Bennett, Laquana Cooke, William Babbitt, and Michael Lachney. Counter-hegemonic computing: Toward computer science education for value generation and emancipation. *ACM Transactions on Computing Education*, 21(4):29:1–29:30, December 2021. CODEN ???? ISSN 1946-6226. URL https://dl.acm.org/doi/10.1145/3449024.

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El-Hamamsy:2023:TMU

[EHBA⁺23]

Laila El-Hamamsy, Barbara
Bruno, Sunny Avry, Frédérique
Chessel-Lazzarotto, Jessica Dehler EKSW11]
Zufferey, and Francesco Mondada. The TACS model:
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[SH18a]

[SH10]

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