Title word cross-reference

1 [Zin15], 12 [GES14, GYSH19, HAGM14, HAG15b, JK20, OWK21, TM14].

7th [SA20].

Abilities [AJNN20, JNA18]. Abstraction [DSU20, SSD09, SA20]. Academia [NJK19].
Academic [KPM18]. Academics [SDBJ19].
Accessibility [CGZ+20, PLB+12, WCPF20].
Accomplishment [ZD15]. according [MM12]. Achievement [AANK14, CHA17, Zin15]. ACM [TM09, CB19]. Action [IT17, LMGVS+16].
Active [VI13, IT13]. Activities [MDS16, RKM20]. Adding [BLNC09, DJHGI19]. Address [RvJP20].
Affect [TAL17]. affordable [AGEL13].
Algorithmic [Kie09]. Algorithms [EK17, VI13]. Alice [Coo10, UCK+10].
All-Female [LBT20]. Alleviate [KV15].
Analyze [VFFT16]. Analyzing [AHL17].
Android [Mod21]. Animation
[FKG17, LD19]. Comparing
[DSU20, ECF18, WW17]. Comparison
[CJS+17]. Competence [TSK12].
Compiler [SSD09]. Complexity [EK17].
Complications [TSV18]. Compulsory
[DJHGI19, Hub12]. Computational
[FKG17, FEC17, GBB+17, KLS+14, KKKL21, RG19, TM11a, VMFG17, WDC15, WDC20, WHS+17, WSP+11, YMZ+14, YR15]. Computer [AZK+20, Arn11, BBD+10, BB10, BDDGT14, BAR14, BBG12, BWE11, BSCH14, BCD10, BSS20, CKSS21, CMS+19, CMSP20, CG19, CHP+18, DCA19, DJGIO20, DBR+20, GES14, GM14, GM11, GMM17, HB15, HHM19, Hub12, HAG14, HAG15b, IRY17, JK20, KBW20, KS14, KFME11, KMB+15, LK19, LGMSV+16, LD19, MF+16, MHP20, MRR17, MMR20, MW18, PGJS17, Pet19, PO20, RAN15, RSBP17, RJJ10, RWK+15, RHSS20, RV09, RCS11, Ryo19, SHE1, SPR12, SA20, TK16, TB16, UR17, VFFT16, WAG16, WK10, WW17, WDK20, YB19, YVQ+10, ZNF+20, ZCJR20, ZJWF11, AGEL13, GRI13, LGP13, ZIN15]. Computes [GEME14]. Computing [Bar09, BH16, BMB+18, Bur11, CHA17, CAL15, CB19, CGZ+20, DGBK11, DLM11, EKSW11, ET12, ECIF18, GND19, GHT+11, GGH+10, GYSH19, GKL17, HSI+19, HOC17, KLS+14, KG18, LI1a, LI1b, LR11, MFIR13, MHP20, MBE+16, MDS16, MCK17, MS11, O'G12, OW21, PM09, RHH20, RP19, RvJP20, SH1a, SDBJ19, SSSC18, SH1b, TM09, TM10, TM11a, TM11b, TM14, TC19, WCPF20, YR15, AGEL13, HAA13, NCLN13]. Concept [GHH+10, IRY17]. Conception [RvJP20, Xin15]. Concepts [AWW15, KLS+14, KA16, MS11, YZC19]. Conceptual [TPQE18]. concurrency

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[BSS20, WCPF20, YB19]. Context
[GAME14, ORS16]. Contingency [AHL17].
Continues [Hub17]. Continuum [CB19]. Controlled
[DSUP20, DSU20, MC19, WX18]. Cooperative [BC13]. Copying [DJHGI19].
Core [JNA18, ZPB13]. Correctness
[DHH+15]. Countries [GES14]. Course
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[KLS+14]. Creating [Ri19]. Creation
[RWK+15]. Creative [Fie19]. Creativity
[ALP12]. Creativity-Supporting [ALP12].
Critical [GHT+11, HOC17]. Cross [TM14].
Cross-National [TM14]. CS
[RVAN15, KV15, LBT20, MSP21, PLB+12, TABA12, TWH18, VTB+20]. CS1
[BC13, ORS16]. CS2 [TPQE18]. CS4HS
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CS Tutor [BL14]. CUDA [DS20].
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Cyber-Defense [JNA18]. Cybersecurity
[JNA18, LRVV14]. Cyprus [CS17].

Darmstadt [RVAN15]. Data [AHL17, BA17, BL14, CHU+09, GBB+17, YR15].
Data-Driven [BBB+17, YR15]. Database
[MFG17]. Debugger [BS10]. Debugging
[ABCD20]. Decade [CHH+11, JK20].
Defense [AJNN20, JNA18]. Degree
[AANK14, MG12a]. Demo [KDXB18].
Demo-Oriented [KDXB18]. Derived
[AHL17]. Describing [HLKZ12]. Design
[BC13, BC12, Bur11, CMSP+19, Coo10, DCW19, EKSW11, Ip12, Joh19, LSSM19, OWK21, PCH09, RWK+15, RG19, Shi16, TSK12, Xin15]. **Designing**

[NCLN13, Ric09]. **Desk** [Hun17]. **Detection**

[MM12, NJK19]. **Developing**

[MHP20, TSK12, WHS+17]. **Development**

[AWW15, BCZ19, BCC+19, CG19, HM19, Ip12, Lar16, MC15, Mod21, PDF15, RSPB17, Rit09, VGRM19, ZD15]. **Devices**

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[IT13]. **Didactical** [BDDGT14].

**Differences** [SDBJ19]. **Different**

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[EK17, YZC19]. **Difficulties**

[HLKZ12, LBK11, MS19, QL17]. **Digital**

[BC12, MW18, RG19]. **Dimensions** [TB16].

**Directed** [MBE+16]. **direction** [IT13].

**Discipline** [MFR13, Pet19, TM10].

**Discipline-Based** [MFR13]. **Discovering**

[VGRM19]. **Discrepancies** [DJGIO20].

**Discussion** [UCK+10]. **Distributed**

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**Diversity** [BCC+19, GYSH19, RBSS11].

**division** [LGP13]. **Do**

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[DCW19]. **Doesn’t** [MS11]. **Domains**

[LRVV14]. **down** [ZPB13]. **down-to-earth**

[ZPB13]. **Driven**

[GBB+17, Shi16, YR15, CHM13, LMH21].

**During** [RKM20, RJJ10]. **Dynamic**

[CHU+09].

**Early** [CHA17, RSPB17, HAA13].

**EarSketch** [MFMI+16]. **earth** [ZPB13].

**Editor** [Hun17]. **Editorial**

[RV09, TM11a, TM11b, TM14]. **Editors**

[BB10]. **Education**

[BDDGT14, BLM+14, BH16, BCC+19, Bur11, CAL15, CB19, CJS+17, EKSW11, ET12, Fie19, GES14, GND19, GK17, GEME14, HSI+19, HM19, HHM19, Hub12, HAGM14, HAG15b, HOC17, ILRD20, IRR17, JK20, Joh19, Kie09, KMB+15, KG18, KV15, LV11a, LV11b, LMH21, LRVW14, MFR13, MFM+16, MCK17, O’GI2, OWK21, PGJS17, PM09, RVAN15, RWK+15, RV109, SH18b, SKM13, TS20, TM10, TM11a, TM11b, TM14, TC19, TWH18, VMFG17, YMZ+14, NCLN13, Sor13, TM09, CB19].

**education-friendly** [NCLN13].

**Educational** [KS14, MC19, UR17, ZPB13].

**Educator** [BA17]. **Effect**

[MMFR20, RHSS20]. **Effective**

[ORS16, RJJ10, LGP13]. **Effectively**

[ORKH09]. **Effects**

[DJHGI19, DBR+20, MS11]. **Efficacy**

[LBT20, RCS11, CMSP+19, ZNF+20].

**Effort** [RKM20]. **Electronic**

[JK20, KLS+14]. **Elementary**

[VTB+20, YMZ+14]. **Else** [MRG17, RP19].

**Embodied** [MCK17, MC19]. emphasizing

[IT13]. **Empirical**

[GGT20, MFCLG19, MTGM21, SS13].

**Employability** [IDC+19]. **Enabling**

[IDC+19]. **Endevors** [CAL15].

**Engagement** [MBSBA09]. **Engaging**

[KFME11]. **Engineering**

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[ZD15]. **Enthusiasm** [Lar16]. **Entry**

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**Environments** [FU10b, GYSH19, GBB+17, IDC+19, Kie09, VFFT16]. **Equation**

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[FKG17, KFME11, WCPF20, ZCJR20].

**Errors** [MK19, PDF15]. **TSV18]. **Essential**

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[LMH21]. **Everyday** [RvJP20].

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[RHSS20, Zin15]. **Examples** [BNP11].
Executing [SH18a]. Execution [BS10].
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[ET12]. Experiences
[Bar09, ECF18, KFME11]. Experiment
[WX18]. Experimental [VI13]. Experts
[SDBJ19]. Explain [VMFG17].
Exploration [MPTV16]. Exploring
ET12, GM11, HM19]. Expository
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[KKNL21, MBSBA09]. Extensive [Wan11].
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[DJGIO20, LRJ14, ZD15]. Faculty
[Bar09, GMM17]. Feedback
[KJH19, ORS16]. Female [KWB20, LBT20].
Fiction [GM14]. Field [SCA+10]. Final
[CGZ+20]. Final-year [CGZ+20]. Finnish
[KV15]. First [CK09, NGK11]. Fit
[BBG12]. Fitting [Ip12]. Flipped
[LSSM19]. Flipping [IT17]. Focus [Ric09].
Following [LMGVS+16]. Formal
[GEME14, LBT20]. Formation [Ric09].
Formulation [TSV18]. Forum [CHP+18].
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[DCW19, HHM19, LK19, McGl2a, RWK+15],
Rit09, TAL17, VGRM19, Wan11].
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[Ip12, WDC15, WDCT20]. Gamification
[AZK+20, MFCLG19, MTGM21]. Gap
[KV15]. Gaps [GGT20]. Gender
[CHP+18, KFME11, KKNL21, RCS11,
Wag16]. Generation
[BLNC09, CHU+09, KJH19]. Generic
[SKM13]. Genesis [TC19]. Georgia
[GEME14]. Germany [KMB+15]. Get
[MS19]. Getting [OPC17]. Girl [OPC17].
Global [BTF+19, CB19, FDW19, IDC+19,
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[CHP+18, MS11, SPC19, Zin15]. Google
[RSPB17]. Governance [GND19]. GPU
[DSU20]. Grade [KKNL21, SA20, WTH18].
Grades [Zin15]. Graphics [She13].
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Grounded [RP19]. Group [Ric09]. Groups
[RBSS11]. GSD [VGRM19]. GSD-Aware
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[SPC19]. Hardware [BC12, LRVW14]. help
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MFIM+16, MSH10, TPQE18, WM17,
WDK20, ZNF+20, ZCJR20, ZJWF11,
AGEL13]. High-Level [TPQE18].
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Low-performing [LZT+19]. Lower
[IIRY17].

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[LRJ14, MDS16, ZJWF11]. Majority
[RBSS11]. Majors
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required [IT13]. Research [Bar09, DCW19, GM14, HSI+19, HB15, HOC17, IT17, JK20, KFME11, LGMGVS+16, MAK12, PM09, SSSC18, SF19, TS20, TM11b, Ten14].

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Students [ASG19, CJS+17, IHRY17, IDC+19, JNA18, KPM18, LNZ+19, LR11, MBE+16, MSP21, ORKH09, ORS16, Pet19, RJ10, SDBJ19, SA20, TB16, ZJWF11, HS13, IT13, YZC19].
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**Fiebrink:2019:MLE**


**Fields:2017:YCP**

FINCHER:2010:MT  

FINCHER:2010:PSI  

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