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**Title word cross-reference**

**1** [MPSR05]. **1993** [JPS05]. **1Mbps** [RXC14]. **1s** [Ano14].

**2-based** [BLS<sup>+</sup>19]. **2000** [ZC12]. **2003** [PSS05]. **2007** [BSH08]. **2008** [CDGJ09]. **2009** [XSSZ10]. **2010** [SLYS11]. **2011** [GPHOH12]. **2013** [ZZMS14]. **2014** [CCO15, HT15]. **2016** [TB17]. **2017** [CHHH18]. **2018** [LKM<sup>+</sup>19]. **20th** [NLS13]. **2s** [TOM12].

**360-Degree** [NTT20]. **3s** [Dao17, TOM12].

**7S** [Ano11].

**802.11** [LCK09]. **802.11e** [PBS12]. **8S**

3 [AP10, ARE13, CEE09, CGNG15, Chu15, DP06, DÇ07, GZHD12, GLW20, GS11a, HH12a, HSZ<sup>+</sup>18, JP11, KH13, LLP06, LYZ<sup>+</sup>18, LC12, LCT<sup>+</sup>12, LOJZ18, LZC<sup>+</sup>19, LGF<sup>+</sup>14, MC11, PB19, PB14, RS16, RHS12, SAZ<sup>+</sup>15, SHOG12, SHWC19, TLZ<sup>+</sup>20, WAK<sup>+</sup>12, WHY19, XFSZ20, YWN<sup>+</sup>10a, YWN<sup>+</sup>10b, YI14, YH14, YHZ19, ZDE16]. 360 [ZLOL18]. 4 [CRL20]. 5 [CXW<sup>+</sup>19]. <sup>2</sup> [HQF<sup>+</sup>19]. *P* [DG17b].

**-Degree** [ZLOL18]. **-Encoded** [DG17b].

[Ano12].

**AB-LSTM** [LZL20b]. **ABR** [BRZS18]. **abstraction** [JSL07, TV07]. **Accelerator** [MGG17]. **accelerometer** [RHS10]. **acceptable** [KS09]. **access** [CW10, PZ08, YH13, ZO13]. **access-pattern-driven** [ZO13]. **accessible** [HWY+11]. **accessibility** [AP13]. **Accessing** [CFP15]. **accuracy** [HH08b]. **Accurate** [HD19, LJP08, LML+13]. **achieve** [LGX+08]. **Achieving** [CCG+08]. **ACM** [JPS05, TB17, BSH08, BLJX10, CDGJ09, CHHH18, Dao17, GPHOH12, Geo05, HT15, KZHC13, NLS13, PSS05, RJ05, SLYS11, XSSZ10, ZZMS14]. **ACMNet** [CDL+20]. **Acoustic** [WJ15b, FYH10]. **Action** [HYSL20, HSZ+18, HP17, LSL+20, MZZ+20, XW17, YHQH17, ZHL19, ZLL20, WLHL13]. **action-aware** [WLHL13]. **Actions** [LLCH17]. **Active** [FKCW20, JYZC12, ZZZP+20]. **Activity** [LXL+18, MHCG19, NRUT20, ZCD15]. **Ad** [LB15, WWL13]. **Adaptation** [HXZ+20, PFC+16, SYS17, WBRZ17, YJM+19, CXS+08, WBL09]. **Adaptive** [AH20, BBZ18, BYOZ20, BQBLN18, CPSH14, CDL+20, CDZ+17, DFX20, GZLW18, HZC+16, HJWW19, HXZ+20, KABB20, Lin15, LDZ+20, MN16, NTT20, PLZW18, PFC+16, PVWD18, SYS17, TAPP+15, VTP+20, WBB+17, BLS+19, ZQRS18, Zha19, Bag11, BAK13, GKW08, LC12, LYJ+13, LMLC14, MB08, XMST07]. **Adaptively** [YWG+20]. **adjacency** [QLSQ12]. **Adjusting** [WCK05]. **admission** [GHP+06]. **Adult** [TESU16, HZW+11]. **Advanced** [CH15, Hon19]. **Advances** [Cho13, GTLG14a, Ano13]. **Adversarial** [NWL+20, PQ19, SSK20, SZZY20]. **advertising** [MLHL12, SCFL14]. **Aesthetic** [Abd18, BSS11, FPH+08]. **Aesthetics** [ZZZ14]. **Aesthetics-Guided** [ZZZ14].

**Affect** [MGP19]. **Affective** [APRS+19, HXZ+20, WHY18, ZWS+20, ZJSJ20]. **affine** [GZHD12]. **affine-transformation-invariant** [GZHD12]. **Affinity** [AQL+20]. **after** [JPS05]. **Age** [DLO+20, YLCC18]. **Aggregate** [SEK12]. **Aggregation** [PB19]. **agile** [SLKS12]. **Aided** [RPE+17, WCF+17]. **Algorithm** [AAS+20, ABR17, BLMP18, CH15, GKSB17, PLZW18, SAZ+15, YJM+19, Bag11, LBD08, LWL08, WT10]. **Algorithms** [GL12, WBB+17, NC13, BDV08]. **Alignment** [LZT+20, YLK+20, ZH18, ZHS20, MSL10]. **Allocation** [DMF17, PYZ+20, QZXH14, YGNT19, TC08]. **Alone** [MGP19]. **ALP** [CPSH14]. **Alzheimer** [TRK+20]. **AMIL** [SZZY20]. **among** [CY11]. **Amphitheater** [CGNG15]. **Analysis** [ABR17, BA20, BZDX+18, CZC15, CDL+20, DMF+20, GS19, HDW+18, KD18, LCL14, LKM17, LKM+19, MKSB17, MZGY17, PCH+20, RSE16, RHS+20, SS17, TESU16, VVSV17, WBRZ17, ZZX+20, ADCB07, CY11, Eff13, EGEM06, GIL+10, GFB+14, HCW+07, HM10, KK08, MTTH13, SX13, SWH06, XMST07, XXD+08, YC08, ZI13]. **Analytic** [CS17, WKST08]. **Analytical** [GS18, TSHP05]. **Analytcs** [GLWK19, LSL+20, WAD+18, YNC18, ZYZE19a, ZYZE19b]. **Analyzing** [SKW+15]. **animation** [KP08, SY09]. **anniversary** [NLS13]. **Annotation** [HOSS13, RPE+17, WKE16, YSZZ14, DCC+13, LWL+12, LCS09, QHR+08]. **Answering** [LXL+18, PN16, ZXY+20]. **Appearance** [CHLW19, FKCW20, CCD07]. **Appearance-consistent** [CHLW19]. **Application** [Zho16, EGEM06, SX13]. **Applications** [ASLA18, Ber18, CPSH14, GTLG14a, LLYH14, NHP+16, PCH+20, REP+19, SCXC15, SAZ+15, SRPH16, YCGM14, Ano13, BDV08, DY09, GDGC07,

GA12a, HNL08, HCKL13, LML<sup>+13</sup>, MGCH13, MMW10, MTTH13, OMP07, PZ08, PS05, SOC<sup>+13</sup>, BLJX10, Geo05]. **Applying** [HAAM19, NHP<sup>+16</sup>]. **Approach** [BYOZ20, BZDX<sup>+18</sup>, CGPCR18, GWM<sup>+14</sup>, HJMY15, HSN<sup>+14</sup>, HLD18, HDZ<sup>+15</sup>, KZGH15, LQH18, LZXY20, LZH<sup>+20</sup>, LMF<sup>+14</sup>, MN16, MC19, DMSRL18, TVZ<sup>+19</sup>, WWHW14, WBRZ17, XFSZ20, YHQH17, ZWL<sup>+17</sup>, BAK13, BSS11, DCM13, MC11, NC13, PZ08, RHS10, WK10, WAK<sup>+12</sup>]. **Approaches** [FAA18, LK07]. **Approximate** [CLP17]. **Approximation** [YWG<sup>+20</sup>]. **APRICOD** [ZO13]. **AQM** [KABB20]. **Archaeological** [SRDJ18]. **Architecture** [FAA18, KCC17, PA20, SHIE15, CVV06, OMP07, ZCAP08]. **archives** [SWH06]. **Area** [LCC<sup>+14a</sup>, SHIE15]. **arrangement** [HCS12]. **Art** [GTLG14b, LSDJ06]. **Articles** [SSBT20]. **Artifacts** [SKW<sup>+15</sup>]. **Artificial** [GEL<sup>+15</sup>]. **Artistic** [SW18]. **Artwork** [SBU<sup>+17</sup>]. **ASAP** [ZQRS18]. **assessing** [HAS11]. **Assessment** [SDJ17, WLL<sup>+19</sup>, MVW08, MRS<sup>+07</sup>, RHS12]. **Assisted** [BRZS18, KCC17, OE19, WCY<sup>+18</sup>, ZLW17, CDZ<sup>+17</sup>, MZL<sup>+18</sup>]. **Association** [WCX<sup>+14</sup>, GA12b]. **Asymmetric** [CLP17]. **Atom** [HZC<sup>+16</sup>]. **atoms** [JCC<sup>+10</sup>]. **attack** [FLZ<sup>+12</sup>]. **Attention** [CBSC18, DMF<sup>+20</sup>, HH19, HQF<sup>+19</sup>, LPY<sup>+19</sup>, LSN<sup>+20</sup>, LZL20b, WHY18, WHW18, WHY19, XFZ<sup>+19</sup>, YRE<sup>+20</sup>, ZHL19, ZHS20, ZZW<sup>+19</sup>, ZXY<sup>+20</sup>, AQL<sup>+20</sup>, BGP11, FPH<sup>+08</sup>, HQF<sup>+20</sup>, JC08]. **Attention-Aware** [HQF<sup>+19</sup>]. **Attention-Based** [LSN<sup>+20</sup>, LZL20b]. **attention-centered** [FPH<sup>+08</sup>]. **Attentive** [ZJZC20]. **Attraction** [DNPG<sup>+17</sup>]. **attractiveness** [NLN<sup>+13</sup>]. **Attribute** [DLL<sup>+20</sup>, HLX<sup>+14</sup>, ZZY<sup>+14</sup>, ZH18]. **Attribute-Augmented** [ZZY<sup>+14</sup>]. **Attribute-Aware** [HLX<sup>+14</sup>]. **Attributes** [APRS<sup>+19</sup>, FSX14, GLT<sup>+20</sup>]. **Auction** [WLQL12]. **Auction-based** [WLQL12].

## Audio

[AMMG16, BSSNF<sup>+20</sup>, Ber18, CHHH18, JCC<sup>+10</sup>, LLJW15, LLYH14, SBU<sup>+17</sup>, SRDJ18, TB17, XXD<sup>+08</sup>, YTRC19, LSQ11, MVW07, SOC<sup>+13</sup>, YQH12]. **Audio-visual** [JCC<sup>+10</sup>]. **Audiovisual** [DG17a, SDJ17, Tas20]. **Augmentation** [BYM<sup>+18</sup>]. **Augmented** [AWG<sup>+15</sup>, HQF<sup>+20</sup>, LL15, REP<sup>+19</sup>, SRDJ18, ZZY<sup>+14</sup>, GYN12]. **Authentication** [HM10, DY09, SG07]. **Author** [VMP20]. **Authoring** [SGW08, SLKS12, BB11, BH05, BCG13, KP08]. **Autism** [DMF<sup>+20</sup>]. **Autoencoder** [BSSNF<sup>+20</sup>, LWZH19]. **Autoencoders** [FWLA15]. **Automated** [VCO15, ZRCH08]. **Automatic** [BYM<sup>+18</sup>, BZ05, KD18, MGP19, RSB11, SBU<sup>+17</sup>, SXM<sup>+06</sup>, VM12, YMX<sup>+16</sup>, YSZZ14, HCS12, JWL06, MSL10]. **Autonomous** [YWG<sup>+20</sup>]. **Autoregressive** [LLSX20]. **Auxiliary** [CZW15]. **AV** [XC06]. **Avatar** [SHIE15]. **award** [Ste12c]. **Aware** [CPP<sup>+14</sup>, CAJ19, DYSX14, FAA18, FSK<sup>+15</sup>, GNC17, HDZ<sup>+15</sup>, HQF<sup>+19</sup>, HLX<sup>+14</sup>, KKGE18, LPS15, LYJ<sup>+15</sup>, LLJW15, LL15, OE19, RK15, SBU<sup>+17</sup>, WBRZ17, WAD<sup>+18</sup>, WCLC18, WCY<sup>+18</sup>, YRE<sup>+20</sup>, ZQRS18, Zha19, ZHL19, ZGD<sup>+19</sup>, AH20, BCG13, CPP<sup>+13</sup>, EGEM06, HXZ<sup>+20</sup>, LWL08, WZC<sup>+13</sup>, WLHL13, WHY19, WXQC20, YJM<sup>+19</sup>]. **back** [Eff13]. **Background** [WSLM18, MVW07]. **Bag** [WZNM14]. **Bag-of-Visual** [WZNM14]. **bags** [HZW<sup>+11</sup>]. **Baking** [LOJZ18]. **Balancing** [ZZP<sup>+20</sup>, DL14]. **Bandwidth** [HLD18, HB08, MMW10, REV<sup>+12</sup>]. **bandwidth-lookup** [REV<sup>+12</sup>]. **Banks** [MKS20]. **Based** [Abd18, AR15, CGPCR18, CHLW19, DMF17, DG17a, EWSZ15, FSK<sup>+15</sup>, GLW20, GLT<sup>+20</sup>, GZLW18, GS18, GS19, HJMY15, HLD18, HYSL20, HMOS17, JTZ<sup>+16</sup>,

LYZ<sup>+18</sup>, LPY<sup>+19</sup>, Lin<sup>15</sup>, LMF<sup>+14</sup>, LSN<sup>+20</sup>, LDZ<sup>+20</sup>, MY<sup>15</sup>, MATW<sup>17</sup>, MGG<sup>17</sup>, NHP<sup>+16</sup>, PYZ<sup>+20</sup>, PDD<sup>16</sup>, RS<sup>16</sup>, SSBT<sup>20</sup>, SCXC<sup>15</sup>, SRPH<sup>16</sup>, SRAA<sup>17</sup>, TYY<sup>+18</sup>, TLZ<sup>+20</sup>, VVSV<sup>17</sup>, WBRZ<sup>17</sup>, WLHT<sup>19</sup>, WBB<sup>+17</sup>, WLL<sup>+19</sup>, YH<sup>14</sup>, YJTN<sup>18</sup>, ZZY<sup>+14</sup>, ZZL<sup>+17</sup>, ZYZE<sup>19a</sup>, ZZP<sup>+20</sup>, ZZLL<sup>17</sup>, ZZC<sup>+15</sup>, ADCB<sup>07</sup>, ASVE<sup>13</sup>, BWA<sup>13</sup>, BAK<sup>13</sup>, CL<sup>07</sup>, CML<sup>+13</sup>, DP<sup>06</sup>, FKCW<sup>20</sup>, FLM<sup>+06</sup>, GLC<sup>05</sup>, HYLD<sup>20</sup>, JC<sup>10</sup>, JSL<sup>07</sup>, KK<sup>08</sup>, LSDJ<sup>06</sup>, LLKL<sup>11</sup>, LLHS<sup>12</sup>, LWL<sup>08</sup>, LSQ<sup>11</sup>, LZL<sup>20b</sup>, MGCH<sup>13</sup>, MB<sup>08</sup>, MHT<sup>+13</sup>, NW<sup>08</sup>, NWL<sup>+20</sup>, PZ<sup>08</sup>, QLSQ<sup>12</sup>, RHS<sup>10</sup>, REV<sup>+12</sup>, SG<sup>07</sup>, SZHY<sup>19</sup>, TCJ<sup>08</sup>, VTP<sup>+20</sup>, VMP<sup>20</sup>, VPSS<sup>+13</sup>, WZC<sup>+13</sup>, WLQL<sup>12</sup>, XMST<sup>07</sup>, BLS<sup>+19</sup>, YZL<sup>+14</sup>, ZWM<sup>12b</sup>, ZSO<sup>13</sup>, ZG<sup>08</sup>, ZWF<sup>+20</sup>]. **Basis** [HZC<sup>+16</sup>]. **Bat** [AAS<sup>+20</sup>]. **Bayesian** [Tas<sup>20</sup>]. **Be** [GEL<sup>+15</sup>]. **Beat** [ML<sup>11</sup>]. **Beautiful** [LXL<sup>+14</sup>]. **Becomes** [JSEI<sup>16</sup>]. **before** [YZL<sup>+14</sup>]. **Behave** [ROST<sup>20</sup>]. **Behavior** [CDL<sup>+20</sup>, HDW<sup>+18</sup>, ZZX<sup>+20</sup>, BGP<sup>11</sup>, NH<sup>10</sup>]. **Behaviors** [LCC<sup>+14b</sup>, MZL<sup>+18</sup>]. **Benchmark** [LSL<sup>+20</sup>, SW<sup>18</sup>, WJ<sup>15a</sup>]. **benefits** [WWGT<sup>09</sup>]. **Berkeley** [MPSR<sup>05</sup>]. **Best** [CHHH<sup>18</sup>, HT<sup>15</sup>, TB<sup>17</sup>, ZZMS<sup>14</sup>, CDGJ<sup>09</sup>, GPHO<sup>12</sup>, JYZC<sup>12</sup>, KZHC<sup>13</sup>, SLYS<sup>11</sup>, Ste<sup>12c</sup>, XSSZ<sup>10</sup>]. **Between** [dAVVA<sup>20</sup>]. **Beyond** [HTT<sup>+11</sup>, RXC<sup>14</sup>, WCLC<sup>18</sup>]. **bi** [LYC<sup>+12</sup>]. **bi-layer** [LYC<sup>+12</sup>]. **biased** [LYC<sup>+12</sup>]. **Bidirectional** [JWF<sup>18</sup>, LZL<sup>20b</sup>, WYM<sup>18</sup>]. **big** [KS<sup>09</sup>]. **Bilateral** [WCX<sup>+14</sup>]. **bilingual** [ENHN<sup>09</sup>]. **billions** [ZR<sup>13</sup>]. **Binary** [CLP<sup>17</sup>, DHT<sup>+19</sup>, LQH<sup>18</sup>]. **Biomedical** [SSBT<sup>20</sup>, TKPL<sup>20</sup>]. **biometric** [CW<sup>10</sup>]. **birth** [Geo<sup>05</sup>]. **Bit** [PYZ<sup>+20</sup>, HH<sup>11b</sup>, LJP<sup>08</sup>]. **Bitrate** [SYS<sup>17</sup>, REV<sup>+12</sup>]. **Blind** [AP<sup>10</sup>, RS<sup>16</sup>]. **blink** [WT<sup>10</sup>]. **Block** [EC<sup>16</sup>]. **Body** [CC<sup>17</sup>]. **book** [ARE<sup>13</sup>]. **books** [RSB<sup>11</sup>]. **Boosted** [QZXH<sup>14</sup>, YZXY<sup>15</sup>]. **boosting** [LGX<sup>+08</sup>, WK<sup>10</sup>]. **Bootstrap** [WZD<sup>+20</sup>]. **Both** [Hon<sup>19</sup>]. **Boundary** [LZXY<sup>20</sup>]. **Brain** [HAAM<sup>19</sup>]. **Brand** [GUH<sup>+20</sup>]. **broadcast** [HH<sup>11c</sup>]. **Broadcasting** [CGNG<sup>15</sup>, SkFM<sup>18</sup>, ZRCH<sup>08</sup>]. **Browse** [SX<sup>11</sup>]. **Browser** [LKM<sup>+19</sup>, RW<sup>12</sup>]. **Browsing** [LKM<sup>+19</sup>, LLW<sup>+13</sup>]. **Buffer** [BZDX<sup>+18</sup>, LCK<sup>09</sup>]. **builder** [BB<sup>11</sup>]. **Building** [LLSC<sup>12</sup>]. **Cache** [KZGH<sup>15</sup>]. **Cache-Centric** [KZGH<sup>15</sup>]. **Caches** [KZGH<sup>15</sup>]. **Caching** [ABR<sup>17</sup>, CPP<sup>+14</sup>, HJWW<sup>19</sup>, CPP<sup>+13</sup>, GS<sup>11b</sup>, ILL<sup>08</sup>, LS<sup>05</sup>, ZO<sup>13</sup>]. **calibration** [AP<sup>13</sup>]. **Call** [Ano<sup>13</sup>, BLJX<sup>10</sup>, GS<sup>11a</sup>, KDC<sup>08</sup>, Ste<sup>12c</sup>]. **Camcorder** [SKW<sup>+15</sup>]. **Camera** [GEL<sup>+15</sup>, HZSC<sup>20</sup>, LCC<sup>+14a</sup>, NAK<sup>15</sup>]. **Cameraman** [GEL<sup>+15</sup>]. **camerawork** [GL<sup>08</sup>]. **CamMark** [SKW<sup>+15</sup>]. **Campaign** [HJMY<sup>15</sup>]. **campus** [CY<sup>11</sup>]. **campus-wide** [CY<sup>11</sup>]. **Can** [GEL<sup>+15</sup>, SkFM<sup>18</sup>, LW<sup>07</sup>]. **Cancer** [WZD<sup>+20</sup>]. **candidates** [SLYS<sup>11</sup>]. **Canonical** [LKM<sup>17</sup>]. **capacity** [GZHD<sup>12</sup>]. **Captioning** [CBSC<sup>18</sup>, HH<sup>19</sup>, TWL<sup>19</sup>, WHY<sup>18</sup>, WYM<sup>18</sup>, WHW<sup>18</sup>, WHY<sup>19</sup>]. **Capture** [HSR<sup>18</sup>, LZL<sup>20a</sup>, ZRCH<sup>08</sup>]. **capturing** [ZYM<sup>+10</sup>]. **Cardinalities** [AR<sup>15</sup>]. **Care** [Whi<sup>13</sup>]. **Carving** [Hon<sup>19</sup>]. **Cascades** [CSJC<sup>17</sup>]. **Case** [RXC<sup>14</sup>]. **Cast** [HLD<sup>18</sup>]. **casual** [GL<sup>08</sup>]. **Categories** [ZLL<sup>20</sup>]. **Categorization** [SSSK<sup>18</sup>]. **Causal** [Tas<sup>20</sup>, ZCT<sup>+07</sup>]. **CDN** [AH<sup>20</sup>, YLZ<sup>+10</sup>]. **Celebrity** [LSK<sup>+15</sup>]. **CelebrityNet** [LSK<sup>+15</sup>]. **Cell** [PA<sup>20</sup>, TS<sup>20</sup>]. **Cellular** [ZQRS<sup>18</sup>]. **center** [VPSS<sup>+13</sup>]. **centered** [FPH<sup>+08</sup>, WBL<sup>09</sup>, CBS<sup>08</sup>]. **Centric** [KZGH<sup>15</sup>, PVWD<sup>18</sup>, DCO<sup>10</sup>]. **cepstral** [ML<sup>11</sup>]. **certainty** [NT<sup>08</sup>]. **Challenges** [GTLG<sup>14b</sup>, PVWD<sup>18</sup>, SKVHC<sup>18b</sup>, LSDJ<sup>06</sup>, UTK<sup>+08</sup>]. **Change** [YJTN<sup>18</sup>]. **Change-Resistant** [YJTN<sup>18</sup>]. **Channel** [KLS<sup>+18</sup>, HH<sup>11c</sup>]. **Channels** [YP<sup>15</sup>, CLC<sup>05</sup>]. **character** [SY<sup>09</sup>]. **Characteristics** [PYZ<sup>+20</sup>, VGNL<sup>10</sup>].

**Characterizing** [HPH<sup>+</sup>20, MZL<sup>+</sup>18].  
**Chebyshev** [HD19]. **Chief** [dB16].  
**Children** [DMF<sup>+</sup>20, ONH07]. **Chinese** [WXQC20]. **choice** [NT08]. **Chunk** [OE19].  
**Chunklets** [KABB20]. **chunks** [SX11].  
**Cinematographic** [WPRC18].  
**cinematography** [GL08]. **Circle** [HLX<sup>+</sup>14].  
**Class** [WCF<sup>+</sup>17]. **Classification** [CIPE18, CAJ19, JCSL19, LZH<sup>+</sup>20, QZXH14, RHS<sup>+</sup>20, TS20, WCLC18, WLHT19, WJ15b, ZZP<sup>+</sup>20, FLM<sup>+</sup>06, JCC<sup>+</sup>10, LYC11, TV07, ZI13]. **Classifier** [ZH18, LGX<sup>+</sup>08]. **Click** [LPY<sup>+</sup>19, TYY<sup>+</sup>18].  
**Click-Based** [LPY<sup>+</sup>19]. **Client** [WBL09].  
**Client-centered** [WBL09]. **Clients** [YJM<sup>+</sup>19, GSM<sup>+</sup>08, WLHL13]. **Clinical** [YRE<sup>+</sup>20]. **Clip** [PN16]. **Clips** [LMF<sup>+</sup>14].  
**close** [HCKL13]. **Clothing** [JWF18, LSN<sup>+</sup>20]. **Cloud** [AGC<sup>+</sup>18, ACGH18, AR15, HLD18, HDZ<sup>+</sup>15, IVS<sup>+</sup>20, LA15, LDT<sup>+</sup>18, SRAA17, SSSK18, TRRB20, WCY<sup>+</sup>18, ZLW17, LOJZ18].  
**Cloud-Assisted** [WCY<sup>+</sup>18, ZLW17].  
**Cloud-Based** [HLD18, SRAA17].  
**Clustering** [CZW15, FZYY18, HCW<sup>+</sup>07, TKK<sup>+</sup>17, YGNT19, ZWL15, CFGW05, hHLC10, ULIS07]. **CM** [PQ19]. **CM-GANs** [PQ19]. **CMHNE** [HQF<sup>+</sup>19]. **CNN** [LZH<sup>+</sup>20, TLZ<sup>+</sup>20, ZZY18]. **CNN-RNN** [LZH<sup>+</sup>20]. **CNNs** [NRUT20, SSY20]. **Co** [HQF<sup>+</sup>20, ZCY<sup>+</sup>19, ZX14]. **Co-attention** [HQF<sup>+</sup>20]. **Co-Occurrence** [ZCY<sup>+</sup>19].  
**CO-PMHT** [ZX14]. **Coarse** [SHWC19].  
**Coarse-to-Fine** [SHWC19].  
**coconstruction** [VNC<sup>+</sup>11]. **Codebook** [JCSL19]. **Codes** [CLP17, KMSW18, LQH18, PRH14].  
**Codesign** [HDZ<sup>+</sup>15]. **Coding** [DG17b, GZL<sup>+</sup>20, LYZ<sup>+</sup>18, SAF19, XFSZ20, ZLK<sup>+</sup>19, ADCB07, GL12, HH11c, MC11, RHS12, ZLLT13]. **cognitive** [MC11].  
**Coliseum** [BBT<sup>+</sup>05]. **Collaboration** [AH20, FAA18]. **Collaborations** [KLS<sup>+</sup>18].  
**Collaborative** [HQF<sup>+</sup>19, LOJZ18, WC12, WKE16, hHLC10, LT14]. **Collage** [BC15].  
**Collections** [FHG<sup>+</sup>17, CFGW05].  
**Collective** [Yan17]. **Collectiveness** [LCW16]. **Collision** [BOZ17]. **collusion** [FLZ<sup>+</sup>12]. **Color** [HD19, YWNW15].  
**Combined** [ZQKH19, QLSQ12].  
**Combining** [CC17, WJ15b, YLCC18].  
**come** [Cha13]. **Comfort** [Chu15]. **Comics** [TKK<sup>+</sup>17]. **comment** [CTGP08].  
**Commerce** [VVSV17]. **Common** [PQ19].  
**Communicate** [PRH14]. **Communication** [CIPE18, GNC17, HWLC19, Cho13].  
**Communications** [BLJX10, DG17a, Geo05, JTZ<sup>+</sup>16, Tas20, SSTK07]. **communities** [ZCY<sup>+</sup>13]. **Community** [LXL<sup>+</sup>18, YWG<sup>+</sup>20, SSS13]. **Commuting** [dAVVA20]. **Compact** [DHT<sup>+</sup>19, MCM<sup>+</sup>09, SZTL16].  
**Comparison** [LSL<sup>+</sup>20, ZWM12a, HM10].  
**Compensated** [GKSB17]. **Compensation** [LPS15]. **Complementary** [LSN<sup>+</sup>20, TWL19]. **Completion** [HZC<sup>+</sup>16, LLCH17, MHW<sup>+</sup>19, LYCJ12].  
**Complex** [CGGC20, MVW07].  
**Complexity** [LPS15, SAF19, ZZLL17, HH08b, IB10].  
**Component** [AMMG16, VMP20].  
**Component-based** [VMP20].  
**composition** [EGEM06]. **Compressed** [DG17b, LCSX11, NH10]. **Compression** [LLYH14, LDZ<sup>+</sup>20, FDKB11, KK08, KMP05].  
**Compressive** [EC16]. **Computation** [CLS17, SZHY19, YH14, ZYL<sup>+</sup>17, San11].  
**Computational** [LK07, TKPL20].  
**Computed** [PDD16]. **Computer** [RPE<sup>+</sup>17, WCF<sup>+</sup>17, And13, CCD07, WYM07].  
**Computer-Aided** [RPE<sup>+</sup>17, WCF<sup>+</sup>17].  
**Computing** [AGC<sup>+</sup>18, ACGH18, BLJX10, Geo05, MZL<sup>+</sup>18, ZWS<sup>+</sup>20, ZJSJ20, LWL08].  
**Computing-assisted** [MZL<sup>+</sup>18]. **Concept** [MGS18, PDD16, WCF<sup>+</sup>17, BAK13, JCC<sup>+</sup>10, LGX<sup>+</sup>08]. **Concept-Based** [PDD16]. **concept-oriented** [LGX<sup>+</sup>08].  
**Concepts** [SKVHC18b]. **Conditional**

[WWL20, YH13]. **conductor** [RWP07]. **Conference** [BSH08, CHH18, JPS05, NLS13, PSS05, TB17]. **Confidence** [CDL<sup>+</sup>20, GLC05]. **confidence-based** [GLC05]. **confidentiality** [YC08]. **Configuration** [SSSK18]. **Congestion** [GNC17]. **Connection** [AAS<sup>+</sup>20, CLS17, CSSZ19, LCS17]. **Connections** [LSYM19, TNEcC08]. **Consensus** [WHW18]. **Consideration** [YHZ19]. **considerations** [PZ08]. **Considering** [Hon19, YBO14]. **Consistency** [WKE16, ZWYS20, MMW10]. **Consistent** [XW17, CHLW19]. **Constant** [CPSH14]. **Constrained** [PB14, WXQC20, FDKB11]. **Constructed** [LSK<sup>+</sup>15]. **Constructing** [ZG08]. **construction** [CML<sup>+</sup>13]. **Consumption** [SS17]. **Content** [BRZS18, BCP14, DP06, FSK<sup>+</sup>15, HMOS17, HXZ<sup>+</sup>20, KKGE18, KABB20, LSDJ06, MY15, MHT<sup>+</sup>13, PYZ<sup>+</sup>20, WHY19, XMST07, YSZ15, ZZY<sup>+</sup>14, ZZW<sup>+</sup>19, DY09, Eff13, EGEM06, GA12b, GFB<sup>+</sup>14, GL12, HMVI13, LLC11, SG07, WWL13, WZC<sup>+</sup>13, WBL09, Yan10, ZO13]. **Content-adaptive** [XMST07]. **Content-Aware** [FSK<sup>+</sup>15, KKGE18, HXZ<sup>+</sup>20, WHY19]. **Content-Based** [HMOS17, ZZY<sup>+</sup>14, DP06, LSDJ06, MHT<sup>+</sup>13, SG07]. **Contents** [Ano11, Ano12, Ano14, Dao17, TOM12, ZCY<sup>+</sup>13]. **Context** [CC17, CBSC18, LL15, RK15, SBU<sup>+</sup>17, YSZ15, APV08, ADCB07, CCK06, FLM<sup>+</sup>06, KTM<sup>+</sup>06, KS13, LWL08, RW12, YGHH12, ZI13]. **Context-Aware** [LL15, RK15, SBU<sup>+</sup>17, LWL08]. **context-based** [FLM<sup>+</sup>06]. **context-specific** [ADCB07]. **Contextual** [HQF<sup>+</sup>20, MPE<sup>+</sup>11, LYCJ12, MLHL12]. **contingent** [DÇ07, LW07]. **continuity** [LYC<sup>+</sup>12]. **continuity-biased** [LYC<sup>+</sup>12]. **continuous** [SKSZ13]. **Contour** [LZT<sup>+</sup>20]. **contract** [ZWM12a]. **Contrast** [WQL18]. **Control** [CDZ<sup>+</sup>17, GNC17, MY15, MN16, NAK15, ZZLL17, CCG<sup>+</sup>08, CW10, GHP<sup>+</sup>06, HNL08, HCKL13, HH11c, IB10, LJP08, PZ08, PBS12]. **Controlled** [BFAS15]. **Controller** [Cla18]. **convenient** [LLW<sup>+</sup>13]. **Convergence** [SCFL14]. **Conversational** [BGP11]. **conversion** [HYLD20]. **ConvNet** [TS20]. **Convolution** [LZJ<sup>+</sup>20]. **Convolutional** [DHT<sup>+</sup>19, DLL<sup>+</sup>20, LWZH19, LZC<sup>+</sup>19, XFZ<sup>+</sup>19, YLCC18, ZZG<sup>+</sup>20]. **Cooperation** [SRPH16]. **cooperative** [GS11b, ILL08]. **Coordinated** [LS05]. **coordinates** [AH12]. **Coordination** [NAK15, OMP07]. **Copies** [SKW<sup>+</sup>15, CWC10, KH13]. **Copy** [LH20, YP15, MHT<sup>+</sup>13]. **corners** [VPSS<sup>+</sup>13]. **Correcting** [HWLC19]. **correction** [WCK05]. **correlated** [AKO07]. **Correlates** [KYVE14]. **Correlation** [DLL<sup>+</sup>20, LKM17, PRGA18, YLK<sup>+</sup>20, YP20, YTRC19, ZZLL17, ZWF<sup>+</sup>20, CL07, CL12]. **Correlation-Based** [ZZLL17]. **Correlative** [QHR<sup>+</sup>08]. **Correspondence** [FWLA15, WCX<sup>+</sup>14]. **Correspondences** [MHCG19]. **Corresponding** [SSK20]. **Cost** [LDT<sup>+</sup>18]. **Cost-Efficient** [LDT<sup>+</sup>18]. **Counterfeit** [CSSZ19]. **Counterfeit-goods** [CSSZ19]. **Counterparts** [SZLL17]. **Counting** [ZZL<sup>+</sup>17, ZJZC20]. **Covariance** [GZL<sup>+</sup>20]. **Covert** [JTZ<sup>+</sup>16]. **CovLets** [ZGM<sup>+</sup>20]. **Creating** [TKK<sup>+</sup>17]. **Creation** [MGG17, WXQC20, AVJ05, MB08, RSB11]. **Creators** [JSEI16]. **criterion** [PZ08]. **criterion-based** [PZ08]. **Critical** [ZCT<sup>+</sup>07]. **cropping** [FDKB11]. **Cross** [BXMH15, CDL<sup>+</sup>20, EWSZ15, FWLA15, HSN<sup>+</sup>14, HPW20, JWF18, LZL20a, LKM17, LWZH19, PQ19, YSXH16, YZXY15, YLK<sup>+</sup>20, YP20, YTRC19, ZX14, HH11a, PS05]. **Cross-Domain** [YZXY15, ZX14, PS05]. **Cross-Layer** [EWSZ15, HSN<sup>+</sup>14, HH11a]. **Cross-media** [HPW20]. **Cross-Modal** [FWLA15, YLK<sup>+</sup>20, YP20, YTRC19, CDL<sup>+</sup>20, PQ19]. **Cross-Modality** [LWZH19]. **Cross-Network** [YSXH16].

**Cross-Platform** [BXMH15]. **Cross-Triplet** [JWF18]. **Cross-View** [LKM17]. **Crossmodal** [MHCG19]. **Crowd** [GF17, HDZ<sup>+</sup>15, MC19, ZJZC20]. **Crowd-Cloud** [HDZ<sup>+</sup>15]. **Crowd-sourced** [MC19]. **Crowdsourced** [ZLW17]. **Cryptography** [SA16, WYK12]. **CryptoLesion** [TRRB20]. **Cryptosystem** [SZHY19]. **CTU** [ZZLL17]. **CTU-Level** [ZZLL17]. **Cue** [ZWL<sup>+</sup>17]. **Cues** [XFSZ20, NLN<sup>+</sup>13]. **CZLoD** [WAK<sup>+</sup>12].

**D** [SAZ<sup>+</sup>15, Ste10, Ste12c, AP10, ARE13, CEE09, CRL20, Chu15, DP06, DÇ07, GZHD12, GLW20, GS11a, HH12a, HSZ<sup>+</sup>18, JP11, KH13, LLP06, LYZ<sup>+</sup>18, LC12, LCT<sup>+</sup>12, LOJZ18, LZC<sup>+</sup>19, MC11, PB19, PB14, RS16, RHS12, SHOG12, SHWC19, TLZ<sup>+</sup>20, WCLC18, WAK<sup>+</sup>12, WHY19, XFSZ20, YWN<sup>+</sup>10a, YWN<sup>+</sup>10b, YI14, YH14, YHZ19, ZDE16]. **D-CNN** [TLZ<sup>+</sup>20]. **D-Convolutional** [LZC<sup>+</sup>19]. **D-HEVC** [LYZ<sup>+</sup>18]. **Dance** [WSLM18]. **Dancer** [HYSL20]. **DASH** [BYOZ20, KCC17, OE19, WBRZ17, YJM<sup>+</sup>19, ZQRS18]. **Data** [BYM<sup>+</sup>18, LJP08, NRUT20, TYY<sup>+</sup>18, TKPL20, TKK<sup>+</sup>17, TNP<sup>+</sup>18, YHQH17, ZZP<sup>+</sup>20, ZCY<sup>+</sup>19, ZWS<sup>+</sup>20, ZJSJ20, ZLH16, AP10, ATM06, COM<sup>+</sup>11, KS13, LT14, LH12, RHS10, WDCX07, YC08]. **databases** [HOSS13]. **Dataset** [LSL<sup>+</sup>20]. **DCNNs** [MGG17]. **dear** [Ste10]. **decades** [LWLZ13]. **Decision** [GLT<sup>+</sup>20, LYZ<sup>+</sup>18, SAZ<sup>+</sup>15, ZLK<sup>+</sup>19, ZCS<sup>+</sup>20, CXS<sup>+</sup>08, IB10]. **Declarative** [DMSRL18]. **Decoder** [LPS15, ZJZC20, MPSR05]. **Decoder-Complexity-Aware** [LPS15]. **Decoding** [EC16]. **decomposability** [LYCJ12]. **Decomposition** [HZC<sup>+</sup>16, BWA13]. **decrypting** [NLN<sup>+</sup>13]. **Deep** [AMC<sup>+</sup>18, AC19, BYM<sup>+</sup>18, CAJ19, DHT<sup>+</sup>19, GLW20, GLT<sup>+</sup>20, HAAM19, JWF18, JLW<sup>+</sup>18, JCSL19, LPY<sup>+</sup>19, LZXY20, MDAE19, ODMD17a, ODMD17b, PS17, SBU<sup>+</sup>17, SHZ<sup>+</sup>20, VVSV17, WYM18, WZTL19, WSLM18, WLL<sup>+</sup>19, YTRC19, ZYL<sup>+</sup>17, ZYZE19a, ZYZE19b, ZZP<sup>+</sup>20, ZCY<sup>+</sup>19, ZLL20, ZLH16, ZQKH19]. **Deep-Learning-Based** [WLL<sup>+</sup>19]. **Deeper** [GLT<sup>+</sup>20]. **DeepProduct** [JLW<sup>+</sup>18]. **DeepSearch** [WHF<sup>+</sup>18]. **Defining** [GG06]. **Degree** [NTT20, ZLOL18]. **Delay** [AGC<sup>+</sup>18, ACGH18, Cla18, MFL<sup>+</sup>16, MATW17, WCY<sup>+</sup>18, GHP<sup>+</sup>06, HNL08, HH11c]. **Delay-Aware** [WCY<sup>+</sup>18]. **Delay-Moving** [Cla18]. **Delay-Sensitive** [AGC<sup>+</sup>18, ACGH18]. **Delays** [XW17]. **delivering** [KS09, SLKS12]. **Delivery** [HDZ<sup>+</sup>15, CCG<sup>+</sup>08, DY09, GL12, Hua13, LH12, PS05, QS10]. **Delving** [GLT<sup>+</sup>20]. **Demand** [CPP<sup>+</sup>14, HSN<sup>+</sup>14, CPP<sup>+</sup>13, CE10, GSM<sup>+</sup>08, LLKL11, QS10, SAAH10, TC08]. **Denoising** [HZL<sup>+</sup>16]. **Dense** [CXW<sup>+</sup>19, LZC<sup>+</sup>19]. **dependency** [COM<sup>+</sup>11]. **Dependent** [LYZ<sup>+</sup>18, JC08]. **deployments** [TC08]. **Depth** [CED<sup>+</sup>16, PB19, RS16]. **Depth-Based** [RS16]. **Derivative** [LSQ11, ZQKH19]. **Derivative-based** [LSQ11]. **derive** [RHS12]. **Deriving** [SSSK18]. **Descriptor** [AR15, ZGM<sup>+</sup>20]. **Descriptors** [GZL<sup>+</sup>20]. **Design** [CDZ<sup>+</sup>17, HH12b, KMSW18, NHP<sup>+</sup>16, REP<sup>+</sup>19, ROST20, SKR09, WBRZ17, JC08, YC08]. **Designing** [BLMP18, PRH14]. **Designs** [BFAS15]. **Detailed** [LKM<sup>+</sup>19, RPE<sup>+</sup>17]. **detect** [WYM07]. **Detecting** [CYMW07, CSSZ19, JC10, ULIS07, ZCY<sup>+</sup>13, CWC10]. **Detection** [Abd18, BXMH15, BOZ17, CZC15, GZH17, HAAM19, HWHL18, KLS<sup>+</sup>18, LQZH14, LH20, LZL20b, LWH20, MKS20, SBU<sup>+</sup>17, SRAA17, TLZ<sup>+</sup>20, YWG<sup>+</sup>20, ZWL<sup>+</sup>17, ZWR<sup>+</sup>20, BAK13, KO11, LW07, MHT<sup>+</sup>13, SEK12, VPSS<sup>+</sup>13, XC06]. **determination** [MVW07]. **Device** [HJMY15, Zho16, SSTK07]. **Device-Based**

[HJMY15]. **Device-to-Device** [Zho16]. **Devices** [CFP15, Chu15, HSN<sup>+</sup>14, LYJ<sup>+</sup>15, LHF<sup>+</sup>14, MKSB17, NSJB17, PB14, RK15, WHF<sup>+</sup>18, HH12a, HH11b, LLSC12, SCFL14]. **Diagnosing** [WLZ12]. **Diagnosis** [RPE<sup>+</sup>17, TRK<sup>+</sup>20, WCF<sup>+</sup>17]. **Dialocalization** [FYH10]. **diarization** [FYH10]. **Dice** [LLJW15]. **Differential** [ZQKH19]. **diffusion** [DL14]. **Digital** [BCP14, CHHH18, Dao17, RD17, TB17, WQL18, CBS08, CFGW05, FLZ<sup>+</sup>12, LLC11, SEK12, XMST07]. **dimensional** [JP11, NWL<sup>+</sup>20]. **Dimensions** [AR15]. **DIP** [GGB14]. **Direction** [ZZLL17]. **Directions** [ZGL<sup>+</sup>18, CBS08, RJ05]. **Director** [WPRC18]. **Dirichlet** [QZXH14, YGNT19]. **Discarding** [BLS<sup>+</sup>19]. **disciplinary** [ZCS<sup>+</sup>20]. **Discomfort** [YHZ19]. **Discovering** [FSX14, LSDK12, YGNT19]. **Discovery** [CLS17, CSSZ19, GUH<sup>+</sup>20, LCS17, AH12, GLC05, JP11, ZO13]. **Discrete** [BZDX<sup>+</sup>18, ZWL15]. **Discrete-Time** [BZDX<sup>+</sup>18]. **Discriminative** [SSY20, YI14, ZCD15]. **Discriminatively** [ZZY18]. **Disease** [TRK<sup>+</sup>20]. **Disk** [RWW05]. **Disorder** [DMF<sup>+</sup>20, YRE<sup>+</sup>20]. **Disorder-Aware** [YRE<sup>+</sup>20]. **DisplayCast** [CBR14]. **displays** [DÇ07, LW07, SCFL14]. **Dissecting** [FLP<sup>+</sup>20, LCC<sup>+</sup>14b]. **Dissemination** [LB15]. **Distance** [ATS19, LH20, WLHT19, hHLC10]. **Distances** [YP15]. **Distortion** [BA20, HH08a, HH08b]. **Distributed** [BYOZ20, BOZ17, DMF17, EG17, KD18, LCS17, MN16, ZCAP08, DL14, GG06, MMW10, OMP07, Yan10, ZO13, ZCT<sup>+</sup>07, GGB14]. **Distribution** [BRZS18, Zho16, CCG<sup>+</sup>08, GHP<sup>+</sup>06, WZC<sup>+</sup>13, YH13]. **Distributions** [ZWL15]. **Diversification** [DNPG<sup>+</sup>17]. **Do** [ROST20]. **Documents** [CFP15, DMSRL18, BB11]. **Does** [COM<sup>+</sup>11]. **Domain** [DG17b, GS19, LA15, SZHY19, SZLL17, YZXY15, ZX14, ZH18, BA20, PS05]. **Domain-Specific** [ZH18]. **Domical** [GS11b]. **Double** [HH19, Lin15]. **Down** [GWM<sup>+</sup>14]. **DQ** [BYOZ20]. **DQ-DASH** [BYOZ20]. **Dr** [Ste10]. **Drift** [GKSB17]. **Drift-Compensated** [GKSB17]. **Driven** [BRZS18, PFC<sup>+</sup>16, SSSK18, HTT<sup>+</sup>11, SY09, ZO13]. **Drivers** [HDZ<sup>+</sup>15]. **driving** [ZYZ<sup>+</sup>13]. **Drone** [GLT<sup>+</sup>20]. **Drone-Based** [GLT<sup>+</sup>20]. **dropouts** [DCM13]. **Dropping** [FSK<sup>+</sup>15]. **DSI** [Yan10]. **DTI** [CGNG15]. **DTV** [LGF<sup>+</sup>14]. **Dual** [LCC<sup>+</sup>14a, SZLL17, ZZG<sup>+</sup>20]. **Dual-Camera** [LCC<sup>+</sup>14a]. **Dual-Domain** [SZLL17]. **Dual-path** [ZZG<sup>+</sup>20]. **duo** [ONH07]. **Duplicate** [LQZH14, ZWYS20, DCO10, ZLLT13, ZHLY11]. **Duration** [OE19]. **Duration-Aware** [OE19]. **During** [KP15]. **Dyadic** [ONAGP19]. **Dynamic** [DL14, HWHL18, LOJZ18, LDZ<sup>+</sup>20, MVW08, Zha19, CXS<sup>+</sup>08, IB10, ZWM12b]. **dynamically** [Bag11]. **Dynamics** [KP15, TVZ<sup>+</sup>19]. **e-book** [ARE13]. **e-Commerce** [VVSV17]. **E-learning** [ASLA18]. **Early** [GZLW18, LYZ<sup>+</sup>18, ZLK<sup>+</sup>19]. **Early-Late** [GZLW18]. **EDCA** [PBS12]. **Edge** [MZL<sup>+</sup>18]. **Editing** [WPRC18, CTGP08]. **Editor** [dB16]. **Editor-In-Chief** [dB16]. **Editorial** [SKVHC18a, Ste11, Ste12a, Ste12b, Ste12c, Ste13b, Ste13a, Ste14, YNC18, ZYZE19b, JPS05, Geo05]. **Education** [FMIS17]. **EEG** [CIPE18, KYVE14]. **Effect** [AMMG16, NH10, ZLH16, ZSO13]. **Effective** [YYS13, LGX<sup>+</sup>08, MC11, SCFL14, ZG08]. **Effectiveness** [ZLOL18]. **Effects** [TKK<sup>+</sup>17]. **Efficiency** [DG17b, KZGH15, SAF19]. **Efficient** [BPM15, CLS17, DG17b, GYN12, GZH17, HJMY15, KD18, LDT<sup>+</sup>18, LZT<sup>+</sup>20, LH20,



PLZW18, QS10, RW12, San11, WDCX07, WB16, Zha19, ADCB07, CML<sup>+13</sup>, HH12a, LLSC12, PBS12, YSG<sup>+06</sup>, YH13, ZG08]. **efficiently** [HH11c]. **Egocentric** [HWHL18]. **EGroupNet** [DLO<sup>+20</sup>]. **eigenfaces** [Tur13]. **Eigenvector** [WLHT19]. **Eigenvector-Based** [WLHT19]. **Elaboration** [BXMH15]. **elderly** [CYMW07]. **Electric** [LK18]. **Electrical** [RD17]. **Elements** [GUH<sup>+20</sup>]. **ELVIS** [MA10]. **Embedding** [BA20, CGGC20, CLP17, HQF<sup>+19</sup>, JWF18, LZW<sup>+19</sup>, WZNM14, ZZY18, ZWR<sup>+20</sup>]. **Embeddings** [LPY<sup>+19</sup>, ZZG<sup>+20</sup>]. **Emerging** [BXMH15, SKVHC18b]. **Emotion** [ASLA18, CIPE18, HYSL20, KP15, LZH<sup>+20</sup>, ZGD<sup>+19</sup>, ZWF<sup>+20</sup>, LYC11]. **Emotion-Based** [HYSL20]. **Emotional** [KTK<sup>+17</sup>]. **empirical** [CY11]. **Employing** [GLT<sup>+20</sup>]. **Enabled** [BBZ18, DY09]. **Enabling** [LL15, WAD<sup>+18</sup>, YWN<sup>+10a</sup>, YWN<sup>+10b</sup>]. **Encoded** [DG17b]. **Encoder** [ZJZC20]. **Encoding** [IVS<sup>+20</sup>, KD18, LPS15, SAF19, SSSK18, IB10]. **Encrypted** [GZH17, LA15, SZHY19]. **End** [HNL08, LSN<sup>+20</sup>, CVV06, ZRCH08]. **End-to-End** [LSN<sup>+20</sup>, HNL08, ZRCH08]. **Endoscopy** [WCF<sup>+17</sup>]. **Energy** [HH12a, HSN<sup>+14</sup>, SLP15]. **Energy-efficient** [HH12a]. **Enforcing** [AQL<sup>+20</sup>]. **engine** [LLKL11, JWL06]. **Engines** [MKS17]. **Enhanced** [AMMG16, DLL<sup>+20</sup>, MLQM14, WB16, AG13, DLO<sup>+20</sup>, GA12b, LCS09]. **Enhancement** [LA15, WQL18, BSS11, HWY<sup>+11</sup>]. **Enhancing** [BOZ17, GA12a, LLW<sup>+13</sup>, YWH<sup>+17</sup>, CBJ<sup>+09</sup>, YLZ<sup>+10</sup>]. **enjoy** [Dao17]. **enrich** [CBJ<sup>+09</sup>]. **Enriched** [VCO15]. **enroute** [LS05]. **Ensemble** [AMC<sup>+18</sup>, GLC05]. **Entailment** [HPW20, SSBT20]. **Entailment-Based** [SSBT20]. **Entertainment** [MA10]. **Entertainment-Led** [MA10].

**Environment** [PB14, YMA17, AVJ05, CYMW07, MVW08]. **Environments** [EG17, HEA14, SHIE15, ARE13, DL14, MVW07, MCM<sup>+09</sup>, MRS<sup>+07</sup>, YWN<sup>+10a</sup>, YWN<sup>+10b</sup>, ZWM12b, ZCT<sup>+07</sup>]. **Epilepsy** [HAAM19]. **Equipment** [TC08]. **Errata** [CPP<sup>+14</sup>]. **error** [WCK05]. **errors** [YSG<sup>+06</sup>]. **Essential** [RHS<sup>+20</sup>]. **Estimation** [CZW15, DLO<sup>+20</sup>, DLL<sup>+20</sup>, KRKK14, LK18, NT08, PLZW18, SZZY20, WQL18, XFSZ20, YLCC18, ZWR<sup>+20</sup>, BDV08]. **Evaluating** [BLMP18]. **Evaluation** [CDZ<sup>+17</sup>, NTT20, RPE<sup>+17</sup>, FPH<sup>+08</sup>, HH12b, VM12, WT10]. **Event** [AMC<sup>+18</sup>, AC19, CHLW19, DLZ<sup>+17</sup>, HTT<sup>+11</sup>, MKS20, QZXH14, TVK18, YRE<sup>+20</sup>, YZX16, YLK<sup>+20</sup>, ZX14, CFGW05, PS05, TCJ08, XC06]. **Event-driven** [HTT<sup>+11</sup>]. **Events** [MC19, ZCT<sup>+07</sup>]. **Evolution** [HNS13]. **Evolving** [KRKK14, WRK14, LCSX11]. **Examine** [MHCG19]. **Examining** [MHT<sup>+08</sup>]. **Example** [DLZ<sup>+17</sup>]. **Exercising** [FMIS17]. **EXP** [FLP<sup>+20</sup>]. **Expansion** [HMOS17]. **Experience** [BPT<sup>+15</sup>, HEA14, PVWD18, RT14, SkFM18, YCGM14, ZQRS18, MHT<sup>+08</sup>]. **Experience-Centric** [PVWD18]. **Experiential** [Sun13]. **Experimentation** [FLP<sup>+20</sup>]. **Exploiting** [And13, LYC11, WWL13, ZZW<sup>+19</sup>]. **Exploration** [DFXY20, FSX14, PB14, WWHW14]. **Exploring** [CL07, CL12, GLW20, WLZ08, YRE<sup>+20</sup>]. **Exposing** [YQH12]. **Exposure** [HSR18]. **Expression** [MDAE19, SHWC19, WWL20, YLCC18]. **Extended** [HT15]. **extensible** [TCJ08]. **Extension** [SAF19]. **external** [XC06]. **Extraction** [YRE<sup>+20</sup>, ENHN09, MB08]. **extrapolation** [ZWM12b]. **Eye** [HWLC19, MHCG19, CCD07, FPH<sup>+08</sup>,

GDGC07, JC08, KK08, MRS<sup>+07</sup>, NT08, ULIS07, VPSS<sup>+13</sup>, WT10]. **eye-gaze** [MRS<sup>+07</sup>]. **eye-gaze-position** [KK08]. **eye-movement-dependent** [JC08]. **eye-tracking** [GDGC07]. **eyes** [WYM07].

## Face

[CC17, KP15, LZXY20, LZT<sup>+20</sup>, MHW<sup>+19</sup>, PB19, PCH<sup>+20</sup>, ZH18, ZHS<sup>+20</sup>, KO11].

**Faces** [DMF<sup>+20</sup>]. **Facial**

[HPH<sup>+20</sup>, LZXY20, MDAE19, SSK20, SHWC19, WWL20]. **Factorization**

[WSLM18, WC12]. **Fair** [PFC<sup>+16</sup>]. **Fake** [CZC15]. **far** [Cha13]. **Fashion** [WB16].

**Fast** [CWC10, LQZH14, LZT<sup>+20</sup>, SAZ<sup>+15</sup>, WHF<sup>+18</sup>, XW17, ZLK<sup>+19</sup>, CLC05, IB10, ZO13]. **Fast-Paced** [XW17]. **Faster**

[DYSX14, TLZ<sup>+20</sup>]. **Feature** [AQL<sup>+20</sup>, Ber18, DLO<sup>+20</sup>, LBD08, LWZH19, LWH20, WCLC18, Yan17, YZX16, YFLF19, ZYL<sup>+17</sup>, ZLP<sup>+14</sup>, ZZW<sup>+19</sup>, DCC<sup>+13</sup>, GLC05, LGX<sup>+08</sup>, ML11, MHT<sup>+13</sup>, San11].

**Feature-enhanced** [DLO<sup>+20</sup>]. **Features** [AC19, DHT<sup>+19</sup>, DLL<sup>+20</sup>, HMOS17, JLW<sup>+18</sup>, LPC<sup>+18</sup>, MHW<sup>+19</sup>, ONAGP19, WJ15b, YI14, ZGM<sup>+20</sup>, QLSQ12, XC06].

**Features-Enhanced** [DLL<sup>+20</sup>]. **Feedback** [CIPE18, DNPG<sup>+17</sup>, FHG<sup>+17</sup>, YBO14].

**Fidelity** [BCP14, MFL<sup>+16</sup>, LLC11]. **Field** [CRL20, ZWL<sup>+17</sup>, ZLH16]. **Fifteen** [Whi13].

**Figure** [SSBT20]. **file** [JKKL08]. **Film** [GAB<sup>+17</sup>, WPRC18]. **Films**

[KTK<sup>+17</sup>, VNC<sup>+11</sup>]. **Filtering** [GS18, GS19, LLCH17, RSE16]. **FIN** [LWH20]. **Find** [WLC<sup>+20</sup>, Dao17]. **Finding** [TAS16, YZL<sup>+14</sup>, KH13]. **Fine** [FZYY18, SHWC19, TYY<sup>+18</sup>, HH08a, HH08b].

**Fine-Grained** [TYY<sup>+18</sup>, HH08a, HH08b].

**Fine-tuning** [FZYY18]. **Fingerprinting** [BSSNF<sup>+20</sup>, FLZ<sup>+12</sup>]. **Fingerprints**

[YP15]. **first** [AH12, She13]. **Fitting** [LZT<sup>+20</sup>]. **Fixation** [MZGY17]. **fixations** [ULIS07]. **Fixed** [MKS17]. **flash** [JKKL08]. **Flexible** [PS05]. **flickr** [JGZ<sup>+11</sup>].

**Focal** [TLZ<sup>+20</sup>]. **focus** [RW12]. **Following** [HKYW14]. **Food** [PS17]. **Foot** [LHF<sup>+14</sup>]. **Foreground** [ZHL19]. **Foreground-Aware** [ZHL19]. **Forensic** [RSE16]. **Forensics** [Ber18, GS18, GS19, WQL18]. **Forest** [GLT<sup>+20</sup>, WZD<sup>+20</sup>]. **Foreword** [Hae10]. **forges** [YQH12]. **Form** [MZZ<sup>+20</sup>]. **forward** [Row13, WCK05]. **Foveated** [DÇ07, IVS<sup>+20</sup>, DE12, NH10]. **FPGA** [MGG17]. **FPGA-Based** [MGG17]. **Fractal** [JTZ<sup>+16</sup>]. **Fractional** [PLZW18]. **Fractional-Pixel** [PLZW18]. **Fragment** [CBJ<sup>+09</sup>]. **Frame** [HYLD20, PYZ<sup>+20</sup>, BLS<sup>+19</sup>, YQH12]. **Frame-level** [PYZ<sup>+20</sup>]. **Frames** [DG17b, LLCH17, PB19]. **Framework** [CPP<sup>+14</sup>, CLS17, DG17b, GLWK19, HP17, LCS17, MGP19, SZLL17, VMP20, WHF<sup>+18</sup>, WAD<sup>+18</sup>, ZZY<sup>+14</sup>, CPP<sup>+13</sup>, CXS<sup>+08</sup>, HH11a, HCS12, JSL07]. **Frequency** [GS19, LK18]. **friend** [Ste10]. **Friendly** [KCC17, SZ12, WCK05]. **Functions** [HZSC20]. **Fusing** [SVF12]. **Fusion** [DLL<sup>+20</sup>, GLT<sup>+20</sup>, GZLW18, WRK14, WCLC18, XC06, CDA12, CW10, Hae10, NRUT20, RHS10, WK10, WRK14]. **Future** [ZGL<sup>+18</sup>, BCG13, Hua13, RJ05]. **fuzzy** [Bag11].

## G [CXW<sup>+19</sup>]. Game

[Cla18, FMIS17, JSEI16, LLKL11, LLJW15, MKSB17, SSSK18, AH12, JC08].

**Game-on-demand** [LLKL11]. **Gamepad** [BFAS15]. **Games**

[BFAS15, XW17, HMVI13]. **Gaming** [IVS<sup>+20</sup>, LDT<sup>+18</sup>, REP<sup>+19</sup>, SSSK18].

**GANs** [PQ19, WWL20]. **Gaussian**

[YGNT19]. **Gaze** [HWLC19, TTK<sup>+17</sup>, ADCB07, DÇ07, KK08, LW07, MRS<sup>+07</sup>]. **gaze-contingent** [DÇ07, LW07].

**gaze-tracking** [ADCB07]. **Gender** [CS17].

**General** [LQH18]. **generalized** [NC13].

**Generated** [ZZZ14, ZCY<sup>+13</sup>]. **Generating** [LLJW15, SZLL17, SGW08]. **Generation**

[BC15, HYSL20, VCO15, YMX<sup>+</sup>16, CDA12, HMVI13, SSTK07, XXD<sup>+</sup>08]. **Generative** [NWL<sup>+</sup>20, PQ19, SSK20]. **Generic** [BZDX<sup>+</sup>18, RT14, SZTL16, JCC<sup>+</sup>10]. **Genes** [RHS<sup>+</sup>20]. **genetic** [ASVE13]. **Genre** [WJ15b]. **Geo** [FSX14, MC19]. **Geo-Informative** [FSX14]. **Geo-localization** [MC19]. **Geographic** [YSZ15, AP13]. **Geometric** [LH20, YWNW15, GZHD12, RHS10, WYM07, ZLLT13]. **Geometries** [SSK20]. **geometry** [LLKL11]. **Georeferenced** [TAS16]. **Georganas** [Ste10, Ste12c]. **Geospatial** [YSZZ14]. **geotagged** [PJ13]. **Gesture** [LHF<sup>+</sup>14, ZLP<sup>+</sup>14]. **Gestures** [KTK<sup>+</sup>17]. **Global** [GS18, GS19, HMOS17, RXC14]. **Goal** [AKO07]. **Goal-oriented** [AKO07]. **Good** [GEL<sup>+</sup>15]. **goods** [CSSZ19]. **GPSView** [ZYZ<sup>+</sup>13]. **Grained** [TYY<sup>+</sup>18, HH08a, HH08b]. **Graph** [HCWM14, LZJ<sup>+</sup>20, CML<sup>+</sup>13]. **Graphics** [PB14, CVV06, SNC12]. **Graphics-Constrained** [PB14]. **graphs** [HOSS13]. **Green** [CXW<sup>+</sup>19]. **GridCast** [CSJ<sup>+</sup>08]. **Grocery** [AWG<sup>+</sup>15]. **Group** [DLO<sup>+</sup>20, ONAGP19, MGP19]. **Growing** [HWHL18]. **Guaranteed** [LB15]. **Guest** [JPS05, SKVHC18a, YNC18]. **Guidance** [WHW18]. **Guided** [LZXY20, ZZZ14]. **Guides** [SBU<sup>+</sup>17]. **Guiding** [WHY18].

**H.264** [IB10, LLHS12]. **H.265** [GKSB17]. **H.265/HEVC** [GKSB17]. **Habit** [YHZ19]. **Hallucination** [LZXY20]. **Hamming** [WZNM14]. **Hand** [HWHL18, LHF<sup>+</sup>14]. **Handheld** [LHF<sup>+</sup>14]. **Handling** [ATM06, MDMK06]. **handoff** [LWL08]. **handwritten** [ASVE13]. **Haptic** [CIPE18, HEA14, Tas20, ARE13, ASVE13, KTM<sup>+</sup>06, SOC<sup>+</sup>13]. **Haptic-Audiovisual** [Tas20]. **haptic-to-audio** [SOC<sup>+</sup>13]. **haptic-to-video** [SOC<sup>+</sup>13]. **Harmonic** [YWNW15]. **Harvesting** [WLL<sup>+</sup>19].

**Hashing** [LH20, SHZ<sup>+</sup>20, YP20, CWC10, LYJ<sup>+</sup>13, LMLC14]. **hatching** [WYK12]. **Hazy** [CH15]. **Head** [ZH18]. **Healthy** [AWG<sup>+</sup>15]. **hearing** [HWY<sup>+</sup>11]. **hearing-impaired** [HWY<sup>+</sup>11]. **Heart** [MHCG19]. **Heart-Rate** [MHCG19]. **heat** [DL14]. **Helpers** [RXC14]. **Heterogeneous** [HQF<sup>+</sup>19, HPW20, LPS15, ZCY<sup>+</sup>19, ZWS<sup>+</sup>20, ZJSJ20, GSM<sup>+</sup>08, LLSC12, LC12, QS10]. **Heuristic** [PFC<sup>+</sup>16]. **HEVC** [DG17b, GKSB17, LYZ<sup>+</sup>18, PLZW18, PYZ<sup>+</sup>20, SAZ<sup>+</sup>15, ZLK<sup>+</sup>19, ZLL17]. **HGAN** [NWL<sup>+</sup>20]. **hiding** [LT14]. **Hierarchical** [HB08, LZH<sup>+</sup>20, ZCL<sup>+</sup>12]. **Hierarchy** [TJN14, ZZY<sup>+</sup>14, LGX<sup>+</sup>08]. **High** [CBR14, DG17b, LCC<sup>+</sup>14a, MFL<sup>+</sup>16, SAF19, ZGD<sup>+</sup>19, ZWF<sup>+</sup>20, CVV06, GZHD12]. **high-capacity** [GZHD12]. **High-Efficiency** [DG17b, SAF19]. **high-end** [CVV06]. **High-Fidelity** [MFL<sup>+</sup>16]. **High-Order** [ZGD<sup>+</sup>19, ZWF<sup>+</sup>20]. **High-Resolution** [LCC<sup>+</sup>14a]. **Higher** [KABB20]. **Higher-Performance** [KABB20]. **Highlight** [Abd18]. **HIL** [HPW20]. **Histograms** [GS18]. **Histopathological** [TS20]. **historical** [HNS13]. **History** [LLYH14, LT14]. **Hitchcock** [SGW08]. **HMM** [GZLW18]. **Hoc** [LB15]. **Holistic** [NWL<sup>+</sup>20, BSS11]. **home** [CYMW07, GS11b]. **Hourglass** [ZHS20]. **house** [MVW08]. **HTTP** [BBZ18, CDZ<sup>+</sup>17, HXZ<sup>+</sup>20, SYS17, BLS<sup>+</sup>19]. **HTTP/2** [BLS<sup>+</sup>19]. **HTTP/2-based** [BLS<sup>+</sup>19]. **Human** [CDL<sup>+</sup>20, DMF<sup>+</sup>20, GEL<sup>+</sup>15, HYSL20, HSZ<sup>+</sup>18, KRKK14, LZL20a, LLCH17, LSL<sup>+</sup>20, NRUT20, RD17, SZZY20, SOC<sup>+</sup>13, XFSZ20, YHQH17, ZCD15, ZHL19, ZZX<sup>+</sup>20, ZLP<sup>+</sup>14, ZLL20, And13, DCO10, JP11, TCW<sup>+</sup>13, WYM07, CBS08]. **Human-centered** [CBS08]. **human-centric** [DCO10]. **human-computer** [And13, WYM07].

**Hybrid** [AAS<sup>+</sup>20, BQBLN18, HLD18, LGF<sup>+</sup>14, DMSRL18, VPSS<sup>+</sup>13, TS20]. **Hybrid-Cast** [HLD18]. **Hyper** [SGW08]. **Hyper-Hitchcock** [SGW08]. **hypergraph** [TBC<sup>+</sup>11]. **Hyperspectral** [HZSC20]. **hypervideo** [SGW08].

**I/O** [RWW05]. **ICN** [HJWW19]. **Id** [GLT<sup>+</sup>20]. **Identification** [CS17, DLL<sup>+</sup>18, GGB14, LZC<sup>+</sup>19, PJ13, WWH17, YP15, YJTN18, AQL<sup>+</sup>20, DFX20, FZYY18, LZJ<sup>+</sup>20, SJC<sup>+</sup>19, YWH<sup>+</sup>17]. **Identify** [PA20]. **Identifying** [LLYH14]. **Identity** [ASVE13, MHW<sup>+</sup>19, WWL20, CW10]. **Identity-Preserving** [MHW<sup>+</sup>19, WWL20]. **IEEE** [LCK09, PBS12]. **Illumination** [LOJZ18, YJTN18]. **illustration** [JWL06]. **Image** [AR15, CGGC20, CAJ19, CRL20, CBSC18, DHT<sup>+</sup>19, DE12, EC16, GS19, HH19, HD19, KKGE18, LA15, LQZH14, LSYM19, LLSX20, LYCJ12, LYJ<sup>+</sup>13, LZW<sup>+</sup>19, LH20, NWL<sup>+</sup>20, PDD16, RS16, RSE16, SZHY19, SZM<sup>+</sup>19, SRAA17, SZTL16, SZZT18, TYY<sup>+</sup>18, WHF<sup>+</sup>18, WHY18, WYM18, WLHT19, WYK12, WQL18, WB16, WHW18, WHY19, WXQC20, XFSZ20, YWNW15, YFLF19, ZR13, ZZY<sup>+</sup>14, ZLN<sup>+</sup>16, ZZG<sup>+</sup>20, ZLH16, ZWYS20, BWA13, CLC05, DCC<sup>+</sup>13, hHLC10, HOSS13, LBD08, LMLC14, MLHL12, MB08, QLSQ12, TCW<sup>+</sup>13, YGHH12, YYS13, ZYM<sup>+</sup>10, ZI13, ZG08, ZLLT13, ZHLY11]. **Image-based** [NWL<sup>+</sup>20]. **image-keyword** [LMLC14]. **Image-Sentence** [LZW<sup>+</sup>19]. **Image-Text** [LZW<sup>+</sup>19, ZZG<sup>+</sup>20]. **Image/Video** [LLSX20]. **ImageNet** [MKS20]. **Imagery** [BCP14, LLC11]. **Images** [BYM<sup>+</sup>18, CH15, CS17, CLS17, CC17, DNPG<sup>+</sup>17, GUH<sup>+</sup>20, HZL<sup>+</sup>16, LSK<sup>+</sup>15, PA20, TS20, VCO15, WLL<sup>+</sup>19, Yan17, YHZ19, ZLL20, ZZC<sup>+</sup>15, HCW<sup>+</sup>07, HZW<sup>+</sup>11, LMLC14, PJ13]. **ImageSense**

[MLHL12]. **Imaging** [TKPL20, DC07]. **Imbalanced** [ZZP<sup>+</sup>20]. **IMCE** [AVJ05]. **Immersive** [KTK<sup>+</sup>17, ARE13, BBT<sup>+</sup>05, Cho13, MRS<sup>+</sup>07, WAK<sup>+</sup>12, YWN<sup>+</sup>10a, YWN<sup>+</sup>10b]. **Impact** [KLS<sup>+</sup>18, AG13, Cha13]. **impaired** [HWY<sup>+</sup>11]. **implementation** [PZ08]. **Implicit** [CIPE18]. **Important** [REP<sup>+</sup>19]. **Impressions** [ONAGP19]. **Improve** [KZGH15]. **Improved** [AC19, Ber18, BCP14, TLZ<sup>+</sup>20, ZQRS18]. **Improving** [ENHN09, PDD16, CSJ<sup>+</sup>08, GL08]. **In-a-group** [MGP19]. **In-video** [LWL<sup>+</sup>12]. **Incentive** [SRPH16, ILL08]. **Incentive-Based** [SRPH16]. **Incentives** [WLQL12]. **Inception** [PA20]. **Incomplete** [ZLH16]. **Inconspicuous** [SZLL17]. **Incorporating** [LGX<sup>+</sup>08]. **Increasing** [SZM<sup>+</sup>19]. **Incremental** [PB19, BB11]. **Index** [WLC<sup>+</sup>20, LLHS12]. **index-based** [LLHS12]. **Indexing** [WZNM14, CWC10, VV11, Yan10]. **Individual** [ZGL<sup>+</sup>18, ZQKH19]. **Indoor** [LL15]. **inefficiencies** [WLZ12]. **inference** [MPE<sup>+</sup>11]. **Influence** [ROST20, SX13]. **Information** [AG13, CC17, YSZ15, ZZC<sup>+</sup>15, ASVE13, CCK06, Cha13, HAS11, LSDJ06, LWL<sup>+</sup>12, TBC<sup>+</sup>11, XC06, ZWM12a, ZWM12b]. **information-based** [ZWM12b]. **Informative** [FSX14, WZNM14]. **Input** [Cla18]. **insertion** [MB08]. **insertion-extraction** [MB08]. **Instance** [WJ15a, ZZG<sup>+</sup>20, SZZY20]. **Instance-Level** [WJ15a]. **INSTRE** [WJ15a]. **Integrated** [LWH20, AVJ05]. **Integration** [LGF<sup>+</sup>14, AP13, Yan10]. **Integrity** [BCP14, LLC11]. **Intelligence** [TKPL20, Yan17]. **Intelligent** [HHLY19, RHS<sup>+</sup>20, ZYZE19b, ZCS<sup>+</sup>20]. **Intensifying** [KTK<sup>+</sup>17]. **intent** [ZYM<sup>+</sup>10]. **Inter** [AMMG16]. **Inter-Component** [AMMG16]. **Interact** [NSJB17].

**Interaction** [LGF<sup>+</sup>14, LHF<sup>+</sup>14, MFL<sup>+</sup>16, And13, RWP07, RHS10, WYM07].

**Interactions** [TVZ<sup>+</sup>19, BRA<sup>+</sup>09, CYMW07, HCKL13, ZSO13]. **Interactive** [CPSH14, GAB<sup>+</sup>17, HCKL13, HPW20, LMF<sup>+</sup>14, LKM<sup>+</sup>19, OBBW12, PB14, SCXC15, UTK<sup>+</sup>08, VNC<sup>+</sup>11, WWHW14, CTGP08, CVV06, CBS08, LJP08, MMW10, NW08, SCFL14, SNC12, TCW<sup>+</sup>13, TTR12].

**Interest** [KRKK14, TAS16, CL12, FDKB11].

**interfacings** [FPH<sup>+</sup>08]. **interleaving** [CLC05]. **Intermodal** [ONAGP19].

**International** [JPS05, NLS13]. **Internet** [CCG<sup>+</sup>08, JTZ<sup>+</sup>16, LWLZ13, WWL13, WLL<sup>+</sup>19, ZYM<sup>+</sup>10]. **Interperson** [ONAGP19]. **Interpolation** [JTZ<sup>+</sup>16].

**INTRA** [ZLK<sup>+</sup>19]. **intranet** [CBR14].

**Introduction** [ACGH18, BJLX11, CCK06, CDGJ09, CBS08, CCO15, GPHOH12, GDGC07, GTLG14a, HT15, Kan12, KZHC13, NLS13, ODMD17b, PCH<sup>+</sup>20, SCXC15, SLYS11, SHOG12, TKPL20, XSSZ10, ZZMS14, ZZX<sup>+</sup>20, ZJSJ20].

**Invariant** [LZW<sup>+</sup>19, LH20, RS16, YWNW15, GZHD12].

**Investigating** [BFAS15]. **Investigation** [ROST20]. **Invisible** [MB08]. **IP** [BDV08, SSTK07]. **IPTV** [LCC<sup>+</sup>14b, VGNL10]. **IR** [RHS10]. **iris** [VPSS<sup>+</sup>13]. **ISODATA** [TLZ<sup>+</sup>20].

**ISODATA-Improved** [TLZ<sup>+</sup>20]. **ISP** [AH20, FAA18, SZ12]. **ISP-friendly** [SZ12].

**Issue** [ACGH18, CCO15, GTLG14a, HT15, ODMD17b, PCH<sup>+</sup>20, SCXC15, SKVHC18a, TKPL20, ZZMS14, ZYZE19b, ZZX<sup>+</sup>20, ZJSJ20, BLJX10, BJLX11, CCK06, CBS08, Dao17, GS11a, GDGC07, Hae10, Kan12].

**Iterative** [DLL<sup>+</sup>18].

**JAUNE** [HP17]. **Joint** [EC16, HP17, YLCC18, ZH18, ZHS20, FYH10, ZC12].

**JPEG** [ZC12]. **JPEG-2000** [ZC12].

**Kernel** [ASLA18, DLL<sup>+</sup>18, GZL<sup>+</sup>20, LKM17, WZNM14, QLSQ12]. **kernels** [QHR<sup>+</sup>08]. **Key** [ZHL19, YH13]. **keyframe** [ZHLY11]. **keyword** [LMLC14]. **keywords** [XXD<sup>+</sup>08]. **kNN** [PRGA18]. **Knowledge** [CGGC20, JP11].

**L** [TS20]. **Label** [LQH18, LYC<sup>+</sup>12, LYCJ12].

**Label-to-region** [LYC<sup>+</sup>12]. **labeling** [TCW<sup>+</sup>13]. **Labels** [ZLN<sup>+</sup>16]. **LAN** [BPM15]. **Landmark** [YSZ15].

**Landmarking** [SHWC19]. **landmarks** [JGZ<sup>+</sup>11]. **Language** [GZLW18, TWL19, CL07, ML11, MGCH13].

**Large** [CML<sup>+</sup>13, FHG<sup>+</sup>17, HDW<sup>+</sup>18, LSK<sup>+</sup>15, LCC<sup>+</sup>14a, REP<sup>+</sup>19, SW18, ZWS<sup>+</sup>20, ZJSJ20, ZWYS20, CE10, DCM13, VGNL10, WDCX07, WLZ08, ZLLT13].

**Large-Area** [LCC<sup>+</sup>14a]. **Large-Scale** [HDW<sup>+</sup>18, LSK<sup>+</sup>15, REP<sup>+</sup>19, ZWYS20, CML<sup>+</sup>13, SW18, ZWS<sup>+</sup>20, ZJSJ20, CE10, VGNL10, WLZ08, ZLLT13]. **Late** [GZLW18, LW07]. **Latency** [HLD18, BLS<sup>+</sup>19, GKW08]. **Latent** [MGS18, QZXH14, WCF<sup>+</sup>17, YGNT19].

**Launching** [HJMY15]. **Layer** [EWSZ15, FSK<sup>+</sup>15, HSN<sup>+</sup>14, AAS<sup>+</sup>20, HH11a, LYC<sup>+</sup>12]. **Layered** [CLC05, GL11, ZC12]. **Layout** [YMX<sup>+</sup>16, BZ05, HCW<sup>+</sup>07]. **LBSNs** [ZCY<sup>+</sup>13]. **lead** [ONH07]. **Learned** [ZZY18]. **Learning** [AQL<sup>+</sup>20, ASLA18, BPT<sup>+</sup>15, BBZ18, BC15, CAJ19, DG17a, DLL<sup>+</sup>18, GLW20, GUH<sup>+</sup>20, HAAM19, HPW20, LQH18, LPY<sup>+</sup>19, LZXY20, LWZH19, MGS18, MDAE19, ODMD17a, ODMD17b, PRGA18, PQ19, PS17, RK15, SZZY20, SSY20, SWH06, TYY<sup>+</sup>18, TRK<sup>+</sup>20, VVSV17, WWHW14, WYM18, WLHT19, WZD<sup>+</sup>20, WLL<sup>+</sup>19, Yan17, YZXY15, YLK<sup>+</sup>20, YP20, YTRC19, ZYL<sup>+</sup>17, ZYZE19a, ZYZE19b, ZZP<sup>+</sup>20, ZZX<sup>+</sup>20, ZCY<sup>+</sup>19, ZGD<sup>+</sup>19, ZZW<sup>+</sup>19, ZLL20, ZWF<sup>+</sup>20, CL07, hHLC10, MRS11,

TTR12, ZI13, ZHLY11]. **Learning-Based** [DG17a, VVSV17, ZYZE19a, ZZP<sup>+</sup>20]. **Least** [XW17]. **lecture** [ZRCH08]. **Led** [MA10]. **Length** [KMSW18]. **Lesion** [TRRB20]. **lessons** [She13]. **Level** [LXL<sup>+</sup>18, WJ15a, ZZLL17, ZWYS20, KDC08, MSL10, OMP07, PYZ<sup>+</sup>20, SJC<sup>+</sup>19]. **LFGAN** [CRL20]. **Library** [Dao17]. **licenses** [SEK12]. **Life** [JSEI16]. **Light** [CRL20, ZWL<sup>+</sup>17]. **lightweight** [MHT<sup>+</sup>08]. **Like** [WPRC18]. **likelihood** [MC19]. **Linear** [LK18, RSE16]. **Link** [LYJ<sup>+</sup>15, VCO15, HCW<sup>+</sup>07]. **Link-Aware** [LYJ<sup>+</sup>15]. **links** [HNL08]. **Listen** [WLC<sup>+</sup>20]. **Live** [BQBLN18, GGB14, HWLC19, JSEI16, LCC<sup>+</sup>14b, MN16, MATW17, RXC14, SS17, SkFM18, WAD<sup>+</sup>18, YH14, KW11, SZ12, WWGT09, WLZ08, WLZ12]. **Livecast** [MZL<sup>+</sup>18, ZLW17]. **LiveSky** [YLZ<sup>+</sup>10]. **load** [DL14]. **Local** [HMOS17, QLSQ12]. **Localization** [PN16, SRAA17, FYH10, LML<sup>+</sup>13, MC19, NC13, WT10]. **Location** [FSX14, NHP<sup>+</sup>16, REV<sup>+</sup>12, SG07]. **Location-Based** [NHP<sup>+</sup>16, REV<sup>+</sup>12]. **locations** [PJ13]. **LOD** [DÇ07]. **log** [JKKL08]. **log-structured** [JKKL08]. **Logic** [YH14]. **Lollipop** [RD17]. **Long** [ATS19]. **Long-Distance** [ATS19]. **Look** [HWLC19, WLC<sup>+</sup>20, Eff13]. **Looking** [DCO10, Row13]. **lookup** [REV<sup>+</sup>12, ZCL<sup>+</sup>12]. **Loss** [CPSH14, JTZ<sup>+</sup>16, LZT<sup>+</sup>20, TLZ<sup>+</sup>20, ZZG<sup>+</sup>20, CLC05]. **lossless** [MTTH13]. **lossy** [LLP06]. **Low** [GKW08, LLSX20, MFL<sup>+</sup>16, MATW17, SAF19, BLS<sup>+</sup>19, YWG<sup>+</sup>20, FKFB05]. **Low-Complexity** [SAF19]. **Low-Delay** [MATW17]. **Low-Interaction-Delay** [MFL<sup>+</sup>16]. **Low-Latency** [BLS<sup>+</sup>19, GKW08]. **low-power** [FKFB05]. **Low-Rank** [LLSX20, YWG<sup>+</sup>20]. **LSTM** [LZL20b]. **LSTMs** [WYM18]. **LTE** [FSK<sup>+</sup>15]. **Lung** [WZD<sup>+</sup>20]. **Lyrics** [YTRC19, MSL10]. **MAC** [BPM15]. **Machine** [DG17a, GEL<sup>+</sup>15, TRK<sup>+</sup>20, ZZX<sup>+</sup>20]. **Major** [TESU16]. **malicious** [JC10]. **managed** [PS05]. **Management** [FAA18, MY15, PVWD18, SKVHC18a, SKVHC18b, DÇ07, ZCAP08]. **MANETs** [SKSZ13]. **Manifold** [HPH<sup>+</sup>20, WYM07]. **many** [CBR14, CL07]. **many-to-many** [CBR14]. **many-to-one** [CL07]. **Map** [WZTL19, ZZW<sup>+</sup>19]. **Mapping** [HAAM19, ZCY<sup>+</sup>19]. **Markerless** [LZL20a]. **Masking** [AMMG16]. **Massive** [BYM<sup>+</sup>18, EG17, ZWL15]. **match** [ZLLT13]. **Matching** [CDL<sup>+</sup>20, Lin15, LZW<sup>+</sup>19, LSN<sup>+</sup>20, CWC10, MHT<sup>+</sup>13, ZHLY11]. **matchings** [GYN12]. **Matrix** [HZC<sup>+</sup>16, WSLM18, QLSQ12, WC12]. **matter** [COM<sup>+</sup>11]. **matters** [Han13]. **maximizing** [MMW10]. **Me** [ATS19, HWLC19]. **Mean** [SZHY19]. **Meaningful** [SA16]. **Measurement** [LCL14]. **Measurements** [SkFM18, TESU16, GHP<sup>+</sup>06]. **Measuring** [LCW16, ZGL<sup>+</sup>18]. **Mechanism** [Lin15, SHIE15, SYS17, ZZP<sup>+</sup>20]. **mechanisms** [BZ05, ZWM12a]. **Media** [BPT<sup>+</sup>15, CSJC17, FHG<sup>+</sup>17, GTLG14a, TVK18, ZGL<sup>+</sup>18, AVJ05, Ano13, BLJX10, BJLX11, CY11, CCG<sup>+</sup>08, CXS<sup>+</sup>08, GS11b, GA12b, GSM<sup>+</sup>08, HPW20, ILL08, LJP08, LSDK12, RSB11, SX11, Sun13, TBC<sup>+</sup>11, TSHP05, ZO13]. **Median** [GS18, GS19]. **Medical** [RPE<sup>+</sup>17, ZZP<sup>+</sup>20, ZCS<sup>+</sup>20]. **Medley** [LLJW15]. **Memorability** [SZM<sup>+</sup>19]. **Memory** [YZL<sup>+</sup>14]. **Merge** [LYZ<sup>+</sup>18]. **Mesh** [BLMP18, LDZ<sup>+</sup>20, YI14, COM<sup>+</sup>11, ZSO13]. **mesh-based** [ZSO13]. **meshes** [LLP06]. **messaging** [MHT<sup>+</sup>08]. **Meta** [HQF<sup>+</sup>20]. **Meta-path** [HQF<sup>+</sup>20]. **Metadata** [MDMK06, MC19]. **Method** [WRK14, LT14, RWP07, VPSS<sup>+</sup>13]. **methodology** [RHS12]. **Methods** [NTT20, RHS<sup>+</sup>20]. **Metric**

[TYY+18, WLHT19, hHLC10]. **Metrics** [DLL+18, REP+19, RHS12]. **Microblogs** [WCX+14]. **Microscopy** [PA20]. **middle** [Swa13]. **Middleware** [LLP06, ZO13]. **min** [CWC10]. **min-hashing** [CWC10]. **Mining** [JGZ+11, YZX16, YP20, YSZZ14, ZHL19, LWL+12, SX11]. **Mixed** [LMLC14, VMP20]. **Mixtape** [FHG+17]. **MMS** [YK07]. **MMSys** [CHHH18, TB17, CCO15]. **MobiCoop** [SRPH16]. **Mobile** [AWG+15, ARE13, CFP15, Chu15, FMIS17, HJMY15, HSN+14, JLW+18, LYJ+15, MZL+18, MKSB17, NHP+16, ODMD17a, ODMD17b, PS17, RK15, SkFM18, SRPH16, WHF+18, YJM+19, ZYL+17, Zho16, GS11a, GYN12, HH12a, HH12b, HH11b, HH11c, JYZC12, JKKL08, KS09, LCT+12, LML+13, RHS10, SCFL14, SNC12, SHOG12, YH13, ZC12]. **Modal** [FWLA15, TVZ+19, YLK+20, YP20, YTRC19, Ano13, CDL+20, LSL+20, MGP19, PQ19]. **Modalities** [MZZ+20]. **Modality** [LWZH19, LZW+19, NLN+13]. **Modality-Invariant** [LZW+19]. **Mode** [LYZ+18, SAZ+15, ZLK+19, IB10]. **Model** [BSSNF+20, CHLW19, FKCW20, GLW20, HEA14, LYZ+18, LLSX20, LSN+20, LZL20b, MGS18, RT14, TRRB20, WCX+14, WXQC20, ZYL+17, JC08, TBC+11, Yan10, YGHH12, ZWM12b, DY09]. **Model-Based** [LYZ+18]. **Modeling** [BC15, BZDX+18, COM+11, HAS11, KTM+06, ONAGP19, SKW+15, SS17, Tas20, YSXH16, YHQH17, ZGM+20, ZSO13, JGZ+11]. **Models** [AMC+18, DG17a, PB19, ZLK+19, ZZP+20, DP06, GZHD12, HH08b, MCM+09]. **Modern** [WXQC20]. **Moment** [GS18]. **Moments** [HD19]. **Monitoring** [LCC+14a, HAS11, JC10, LCSX11]. **Mopsi** [FMIS17]. **most** [Dao17]. **Motion** [CZW15, Chu15, GZH17, HYLD20, LPS15, LZL20a, MZZ+20, PLZW18, AP10, JP11, LZP07]. **movement** [JC08]. **Movements** [HPH+20, NT08]. **Movies** [Abd18]. **Moving** [Cla18, ZHL19]. **MOWL** [MGCH13]. **MP3** [YQH12]. **MPEG** [MPSR05, SG07, WCK05]. **MPEG-1** [MPSR05]. **MPEG-4** [SG07]. **MRFs** [WB16]. **MulSeMedia** [Ano13, GTLG14a, GTLG14b, YCGM14, MHCG19]. **Multi** [AAS+20, AH20, DLL+20, EG17, GLWK19, LPC+18, LSL+20, MGS18, MGP19, NAK15, NRUT20, PS17, SZZY20, SHIE15, SJC+19, TVZ+19, WCF+17, WYM18, YP20, ZX14, ZWL+17, ZJZC20, ZZW+19, ZWR+20, ZCS+20, Ano13, NLN+13, YWN+10a]. **Multi-Attribute** [DLL+20]. **Multi-Avatar** [SHIE15]. **Multi-Camera** [NAK15]. **Multi-CDN** [AH20]. **Multi-Class** [WCF+17]. **Multi-Concept** [MGS18]. **Multi-Cue** [ZWL+17]. **Multi-disciplinary** [ZCS+20]. **Multi-Event** [ZX14]. **Multi-Food** [PS17]. **Multi-fusion** [NRUT20]. **Multi-instance** [SZZY20]. **Multi-layer** [AAS+20]. **Multi-level** [SJC+19]. **Multi-Modal** [TVZ+19, LSL+20, MGP19, Ano13]. **multi-modality** [NLN+13]. **multi-party** [YWN+10a]. **Multi-Scale** [ZWR+20, YP20, ZJZC20]. **Multi-sensor** [GLWK19]. **Multi-Task** [WYM18, ZZW+19]. **Multi-User** [EG17]. **Multi-Variate** [LPC+18]. **Multi-View** [TVZ+19]. **Multicast** [WCO15, GL11, GL12, YC08]. **multicasting** [HH12a]. **Multichannel** [LKM17, ZXY+20]. **Multichannel-Kernel** [LKM17]. **multidepth** [KMP05]. **Multidimensional** [Tas20]. **Multifeature** [HSZ+18, YZXY15, ZI13]. **MultiFusion** [WK10]. **Multigranularity** [MRS11]. **multihop** [HNL08]. **multilabel** [CML+13, LMLC14, QHR+08]. **multilayer** [PZ08]. **Multilayered** [LCC+14a]. **Multilevel** [WJ15b]. **Multimedia** [AMMG16, AC19, BSH08, BXMH15, BLJX10, CDGJ09, CXW+19, CHHH18, CW10, GPHOH12, Geo05, GJAF18, Han13, HSN+14, HT15, JPS05, LQH18, MLQM14,

ODMD17a, ODMD17b, PSS05, RPE<sup>+17</sup>, DMSRL18, She13, SLYS11, SKVHC18a, SKVHC18b, TB17, TNEcC08, WKST08, WCX<sup>+14</sup>, WRK14, XSSZ10, YK07, YNC18, ZZMS14, ZYL<sup>+17</sup>, ZYZE19a, ZYZE19b, ZCY<sup>+19</sup>, ZWS<sup>+20</sup>, ZJSJ20, AG13, ATM06, AKO07, Bag11, BH05, BCG13, CCK06, Cha13, DY09, Eff13, ETF06, GS11a, GDGC07, GA12a, GA12b, GFB<sup>+14</sup>, GG06, Hae10, HNL08, HM10, HAS11, HNS13, JKKL08, Kan12, KZHC13, LSDJ06, LS05, LWL08, MGCH13, OMP07, PZ08, PS05, RWW05, RJ05, Row13, SKSZ13, SG07, SX13, SSTK07, SHOG12, SOC<sup>+13</sup>, SKR09, SLKS12, WDCX07, WK10, WZC<sup>+13</sup>, WBL09, Yan10, YC08, ZCY<sup>+13</sup>, NLS13]. **Multimedia-Rich** [WCX<sup>+14</sup>]. **Multimodal** [APRS<sup>+19</sup>, CXC<sup>+17</sup>, DNPg<sup>+17</sup>, GTLG14a, HQF<sup>+19</sup>, LGF<sup>+14</sup>, LHF<sup>+14</sup>, MZGY17, QZXH14, TVK18, WCLC18, YNC18, YHQH17, ZZX<sup>+20</sup>, And13, MVW08, MHT<sup>+13</sup>]. **Multimodality** [WLC<sup>+20</sup>]. **Multinomial** [CHLW19]. **Multiparty** [DMF17, YWN<sup>+10b</sup>]. **Multipath** [WWGT09]. **Multiphase** [EC16]. **Multiplanar** [LLSX20]. **Multipatform** [TVK18]. **Multiplayer** [XW17]. **Multiple** [ASLA18, DLL<sup>+18</sup>, GTLG14a, GZL<sup>+20</sup>, KP15, LPS15, MGS18, MLQM14, NRUT20, ZZZ14, ZGM<sup>+20</sup>, ATM06, NT08, SVF12, TNEcC08, Ano13]. **multiple-choice** [NT08]. **Multiple-Scent** [MLQM14]. **Multiplexing** [CXC<sup>+17</sup>, HH11b]. **multirelational** [LCSX11, LSDK12]. **multiresolutional** [LW07]. **multisensor** [HAS11]. **Multisensorial** [LGF<sup>+14</sup>]. **Multisource** [BQBLN18]. **Multiview** [EC16, HH12a, RHS12]. **Museum** [NHP<sup>+16</sup>]. **Music** [CFP15, HDZ<sup>+15</sup>, SY09, WWHW14, WJ15b, YTRC19, DCM13, FLM<sup>+06</sup>, HCS12, KS13, LYC11, MSL10, ML11, SXM<sup>+06</sup>, TBC<sup>+11</sup>, Whi13, XMST07]. **Music-driven** [SY09]. **Musical** [LLJW15, ONH07, ZCAP08]. **Musicalization** [TNP<sup>+18</sup>]. **My** [GEL<sup>+15</sup>]. **narrative** [JSL07]. **narrative-based** [JSL07]. **narratives** [UTK<sup>+08</sup>]. **Navigate** [FHG<sup>+17</sup>]. **Navigating** [SSS13]. **Navigation** [TJN14]. **Near** [LQZH14, MTTH13, ZHLY11, DCO10]. **Near-Duplicate** [LQZH14, ZHLY11, DCO10]. **Near-lossless** [MTTH13]. **Negative** [YBO14]. **Net** [PA20, WWL20]. **Network** [BRZS18, CPP<sup>+14</sup>, CGPCR18, CHHH18, CDL<sup>+20</sup>, CDZ<sup>+17</sup>, DLO<sup>+20</sup>, DLL<sup>+20</sup>, EC16, GNC17, HQF<sup>+19</sup>, HQF<sup>+20</sup>, KCC17, LSK<sup>+15</sup>, LK18, LZC<sup>+19</sup>, LWH20, SJC<sup>+19</sup>, TB17, WHY19, YSXH16, YFLF19, ZHS20, ZJZC20, AH12, CPP<sup>+13</sup>, CXS<sup>+08</sup>, GL12, LWL08, TC08, WLZ12]. **Network-Assisted** [BRZS18, KCC17, CDZ<sup>+17</sup>]. **Network-Aware** [GNC17]. **Network-Based** [CGPCR18]. **network-wide** [WLZ12]. **networked** [MCM<sup>+09</sup>, ZWM12b]. **Networking** [MY15, FKFB05]. **Networks** [BOZ17, CXW<sup>+19</sup>, FSK<sup>+15</sup>, LCL14, LB15, LZJ<sup>+20</sup>, NWL<sup>+20</sup>, PQ19, SSK20, SZTT18, XFZ<sup>+19</sup>, YLCC18, ZQRS18, ZH18, ZLH16, ZQKH19, BDV08, BRA<sup>+09</sup>, GS11b, HH12b, HH11a, HH11c, LS05, LLP06, LCK09, LCSX11]. **Neural** [LZC<sup>+19</sup>, LSN<sup>+20</sup>, SZM<sup>+19</sup>, ZQKH19, LWL08]. **neural-network-based** [LWL08]. **news** [LLW<sup>+13</sup>, OBBW12, SWH06]. **next** [SSTK07, She13]. **NextSlidePlease** [SLKS12]. **Nicolas** [Ste10, Ste12c]. **nodes** [JC10]. **Nodule** [TLZ<sup>+20</sup>]. **Noise** [RSE16, YMA17]. **Noisy** [ZLN<sup>+16</sup>, WDCX07]. **nominations** [Ste12c]. **noncontinuous** [ZO13]. **Nonlinear** [RSE16]. **Nonlocal** [HZL<sup>+16</sup>]. **nonrigid** [ZHLY11]. **Normalization** [LZT<sup>+20</sup>]. **NOSSDAV** [CHHH18, TB17, CCO15]. **Note** [Ste14, Ste12b, Ste12c, Ste13b]. **notice**



[Ste11]. **Noticeable** [XW17]. **Novel** [BQBLN18, DLO<sup>+</sup>20, HLD18, LC12]. **Nuclei** [PA20, TS20]. **Nuisance** [KDC08]. **Number** [Ano11, Ano12, Ano14, SRAA17, TOM12]. **nursing** [CYMW07].

**O** [TS20, FMIS17, RWW05]. **O-Mopsi** [FMIS17]. **Obituary** [Ste10]. **Object** [CHLW19, LWH20, NWL<sup>+</sup>20, QLSQ12, SZTL16, WJ15a, LS05, TCJ08, ZG08]. **Object-based** [QLSQ12, ZG08]. **objective** [RHS12]. **Objectness** [WLL<sup>+</sup>19]. **Objects** [WLL<sup>+</sup>19, VV11]. **Observation** [LLCH17]. **Occlusions** [Hon19]. **Occupation** [CC17]. **Occurrence** [ZCY<sup>+</sup>19]. **OCR** [ZCZ<sup>+</sup>15]. **octave** [ML11]. **Octree** [YH14]. **Octree-Based** [YH14]. **Odor** [KYVE14]. **Offering** [YC08]. **offline** [NH10]. **Offset** [ZLOL18]. **offsets** [YQH12]. **Olfaction** [AMMG16, AG13, GA12a, GA12b]. **Olfaction-Enhanced** [AMMG16, AG13, GA12b]. **OmniArt** [SW18]. **On-Demand** [HSN<sup>+</sup>14, GSM<sup>+</sup>08, QS10, SAAH10]. **On-Screen** [BFAS15]. **On-the-Spot** [VVS17]. **One** [WLC<sup>+</sup>20, CL07]. **Online** [ABR17, Ano11, Ano12, Ano14, BBZ18, CZC15, CSSZ19, GZLW18, Hua13, JSEI16, JWF18, KRKK14, LSK<sup>+</sup>15, MVW07, SZTT18, TOM12, TAS16, XW17, ZLP<sup>+</sup>14, BRA<sup>+</sup>09, CXS<sup>+</sup>08, Dao17, LLKL11, LYC11]. **online-only** [Dao17]. **only** [Dao17]. **ontology** [BAK13, FLM<sup>+</sup>06, MGCH13]. **open** [OMP07]. **Operating** [CHHH18, GEL<sup>+</sup>15, TB17]. **Operations** [SZHY19, Zha19]. **Opinion** [PN16]. **Opportunities** [UTK<sup>+</sup>08]. **Optimal** [GL11, TAPP<sup>+</sup>15, AKO07, HB08, WLQL12]. **Optimization** [AAS<sup>+</sup>20, CXW<sup>+</sup>19, EWSZ15, HXZ<sup>+</sup>20, LLSX20, NW08, PYZ<sup>+</sup>20, TRRB20, WCY<sup>+</sup>18, FLZ<sup>+</sup>12, FYH10, GL12, HH11a, LCK09]. **optimized** [HH08a, YK07]. **Optimizing**

[MMW10, WBB<sup>+</sup>17, TCW<sup>+</sup>13, AH12]. **Orchestrating** [HJWW19]. **Order** [XW17, YHQB17, ZGM<sup>+</sup>20, ZGD<sup>+</sup>19, ZCT<sup>+</sup>07, ZWF<sup>+</sup>20]. **Orders** [ZQKH19]. **Organization** [LMF<sup>+</sup>14, LLW<sup>+</sup>13]. **Organizing** [WZTL19, SX11]. **Oriented** [TAS16, AKO07, JSL07, LCT<sup>+</sup>12, LGX<sup>+</sup>08]. **Orienteering** [FMIS17]. **ORL** [BBZ18]. **Orthopedic** [CGPCR18]. **OSNs** [SZTT18]. **OTT** [FAA18]. **OTT-ISP** [FAA18]. **our** [Ste10]. **Outlier** [LLCH17, DCC<sup>+</sup>13]. **output** [ETF06]. **Outsourced** [HZL<sup>+</sup>16, YMA17]. **Over-** [HSR18]. **Overhead** [CPSH14]. **overlapping** [ZCY<sup>+</sup>13]. **Overlay** [RXC14, LLSC12, VGNL10, YC08]. **overview** [SGW08].

**P2P** [BQBLN18, CSJ<sup>+</sup>08, GGB14, LLSC12, MN16, SZ12, WLQL12, WLZ12, YLZ<sup>+</sup>10, ZCL<sup>+</sup>12, ZSO13]. **P2P/** [BQBLN18]. **Paced** [WZD<sup>+</sup>20, XW17]. **Pacing** [ZQRS18]. **Packet** [JTZ<sup>+</sup>16, CLC05]. **packet-loss** [CLC05]. **page** [HCW<sup>+</sup>07, HZW<sup>+</sup>11]. **Paillier** [SZHY19]. **Pair** [Lin15]. **Paired** [YP15]. **Panoptes** [FKFB05]. **Panorama** [PB14]. **panoramic** [DE12]. **paper** [SLYS11, Ste12c]. **Papers** [CHHH18, HT15, TB17, ZZMS14, Ano13, BLJX10, CDGJ09, GPHOH12, GS11a, KZHC13, PSS05, XSSZ10]. **Paradigm** [MZL<sup>+</sup>18, CTGP08]. **Parallel** [ZWL15, EGEM06, GFB<sup>+</sup>14]. **Parametric** [DG17a]. **parents** [ONH07]. **Parsing** [MHW<sup>+</sup>19, WB16]. **Partial** [KP08, ZWYS20, ZLLT13]. **Partial-Duplicate** [ZWYS20, ZLLT13]. **Participatory** [HJMY15]. **partner** [HCKL13]. **party** [YWN<sup>+</sup>10a]. **passive** [CCD07]. **Past** [dB16, BCG13, Hua13]. **Patch** [JCSL19]. **Patches** [ZCD15]. **patching** [HB08]. **path** [HQF<sup>+</sup>20, ZZG<sup>+</sup>20]. **pattern** [WT10, ZO13]. **Patterns** [WPRC18]. **pay** [YH13]. **pay-TV** [YH13].

**Paying** [CBSC18]. **Peaks** [YP15]. **peer** [CSJ+08, CL12, JC10, LH12, TSHP05, VGNL10, WLZ08]. **peer-based** [JC10]. **peer-to-peer** [CL12, JC10, LH12, TSHP05, VGNL10, WLZ08]. **People** [ZZL+17]. **Perception** [KYVE14, SJC+19, GA12b, GG06, KTM+06, SOC+13]. **Perceptron** [AAS+20]. **Perceptual** [SZLL17, KK08]. **Performance** [CDZ+17, FLP+20, KABB20, MKSB17, BBT+05, CBR14, WKST08, WWGT09]. **Performances** [WSLM18, ONH07, ZCAP08]. **peripheral** [DÇ07]. **Person** [AQL+20, DFXY20, DLL+18, FZYY18, GLT+20, LZJ+20, LKM17, LZC+19, SJC+19, WLC+20, YWH+17, YJTN18, ZZY18, AH12]. **Personal** [GLWK19, MZL+18, Eff13]. **Personality** [ZGD+19]. **Personality-Aware** [ZGD+19]. **Personalization** [CED+16, SSTK07]. **Personalized** [DYSX14, HCWM14, LXL+18, WWHW14, YBO14, ZGD+19, WWL13]. **perspective** [DCO10, FPH+08, MDMK06, ZWM12a]. **Perspectives** [GTLG14b]. **Pervasive** [MY15, NSJB17]. **PhD** [Ste10]. **Photo** [BC15, WWL20, ZLN+16, CFGW05, RSB11]. **Photo-Realistic** [WWL20]. **Photograph** [YBO14]. **Photographs** [TAS16, BSS11]. **Photography** [RK15]. **Photometries** [SSK20]. **Photorealistic** [MHW+19]. **photos** [SSS13]. **Phrases** [PRH14, ZG08]. **physical** [RHS10]. **Physiological** [ZGD+19, ZWF+20]. **piano** [ONH07]. **picture** [KS09]. **Pictures** [WCX+14]. **Picturing** [JWL06]. **Pithos** [EG17]. **Pixel** [Lin15, PLZW18]. **placement** [LJP08]. **PLACID** [MGG17]. **Placing** [TJN14]. **planner** [ZYZ+13]. **planning** [REV+12]. **plant** [MCM+09]. **Platform** [BXMH15, FLP+20, MGG17]. **platforms** [GFB+14, LT14]. **Playlists** [dAVVA20]. **Playlist** [LCK09]. **Pleasant** [KYVE14]. **Please** [Dao17]. **Pleasing** [BC15]. **Plenoptic** [HSR18]. **PMHT** [ZX14]. **PMS** [BQBLN18]. **POB** [SRAA17]. **Poetry** [WXQC20]. **Point** [LYJ+15]. **Point-to-Point** [LYJ+15]. **Points** [TAS16, ATM06]. **Polar** [YWNW15]. **Polluters** [GGB14]. **Pooling** [WCF+17]. **pop** [ML11]. **Popularity** [HDW+18, KLS+18]. **Portable** [JLW+18]. **Portal** [TESU16]. **Portraitist** [HHLY19]. **Pose** [SZZY20, XFSZ20, YJTN18]. **Posed** [HHLY19]. **position** [KK08]. **Positive** [YBO14]. **Posts** [GUH+20]. **potential** [MRS+07]. **Power** [SS17, FKFB05]. **PPNet** [AH20]. **practice** [ONH07]. **pre** [CLC05]. **pre-interleaving** [CLC05]. **Predicting** [CC17]. **Prediction** [CSJC17, DG17a, DMF+20, HDW+18, LK18, LXL+18, MZGY17, SYS17, KW11, SAAH10]. **Predictions** [MATW17]. **Predictive** [KK08, ZWM12a]. **Preference** [LLJW15]. **Preferences** [BC15]. **prefetching** [LJP08]. **presence** [MHT+08, YSG+06]. **present** [BCG13, Hua13]. **Presentation** [GLWK19, YMX+16]. **Presentations** [AMMG16, SLKS12]. **Preservation** [BCP14, LLC11]. **Preserved** [LZJ+20]. **Preserving** [ATS19, LQH18, LPY+19, MHW+19, SHZ+20, SZTT18, WWL20, YFLF19, SKSZ13, TRRB20]. **principles** [HNS13]. **Printing** [ZDE16]. **Priorities** [FSK+15]. **prioritization** [ETF06]. **priors** [LYC+12]. **Privacy** [AH20, ATS19, KCC17, SKSZ13, SZTT18, TRRB20, WAD+18, CCG+08, MVW08]. **Privacy-Aware** [WAD+18]. **Privacy-Friendly** [KCC17]. **Privacy-Preserving** [ATS19, SZTT18, TRRB20]. **Probability** [LYZ+18, WBB+17, ZWR+20]. **problem** [FYH10]. **Procedural** [HMVI13]. **Process** [ETF06]. **Processing** [SZHY19, YH14, EGEM06]. **Product** [CAJ19, JLW+18, LWL+12]. **production**

[ETF06]. **Professor** [Ste10]. **profilable** [ZCY<sup>+</sup>13]. **Prognosis** [WZD<sup>+</sup>20]. **programming** [ASVE13]. **progress** [UTK<sup>+</sup>08]. **Progressive** [CZW15, PB14, SA16, SHWC19, CLC05, COM<sup>+</sup>11, LLP06, MCM<sup>+</sup>09]. **projection** [ULIS07]. **Projections** [ZLOL18]. **Propagation** [HCWM14, LCL14, WZC<sup>+</sup>13, CML<sup>+</sup>13, HOSS13]. **Propagation-based** [WZC<sup>+</sup>13]. **PROPANE** [PB14]. **Properties** [KMSW18, WYM07]. **Proposal** [ZGL<sup>+</sup>18]. **Proposed** [ABR17]. **Protected** [AH20]. **Protecting** [BCP14, LLC11]. **Protection** [CPSH14, CLC05, CCG<sup>+</sup>08]. **Protocol** [JTZ<sup>+</sup>16, LB15, PB14, OMP07]. **Prototyping** [GJAF18]. **Providing** [ZCL<sup>+</sup>12, ILL08]. **Provisioning** [LDT<sup>+</sup>18]. **proxies** [LS05]. **Proxy** [RXC14, DY09, ILL08]. **proxy-enabled** [DY09]. **Pseudo** [MC19, WHY19]. **Pseudo-likelihood** [MC19]. **PSNController** [MY15]. **psychophysical** [WAK<sup>+</sup>12]. **Pulmonary** [TLZ<sup>+</sup>20]. **punishment** [BAK13]. **pursuing** [LYCJ12]. **pursuit** [DCC<sup>+</sup>13]. **Pyramid** [YFLF19, MHT<sup>+</sup>13]. **Python** [GFB<sup>+</sup>14].

**QoE**  
[SKVHC18a, BRZS18, EWSZ15, FAA18, FSK<sup>+</sup>15, HXZ<sup>+</sup>20, LCT<sup>+</sup>12, MHCG19, MATW17, PFC<sup>+</sup>16, SKVHC18b, SSSK18, Tas20, WBRZ17, YJM<sup>+</sup>19, Zha19, ZGL<sup>+</sup>18]. **QoE-Aware** [FAA18, WBRZ17, Zha19]. **QoE-Based** [EWSZ15, FSK<sup>+</sup>15, MATW17]. **QoE-Driven** [BRZS18, PFC<sup>+</sup>16, SSSK18]. **QoE-oriented** [LCT<sup>+</sup>12]. **QoS** [AH20, EGEM06, KW11]. **QoS-aware** [AH20, EGEM06]. **Quality** [BQBLN18, DG17a, HEA14, LB15, LH12, PVWD18, RT14, WBRZ17, WCY<sup>+</sup>18, YCGM14, Zha19, BDV08, GG06, HAS11, KS09, KO11, NH10, PS05, RHS12, SkFM18]. **Quality-Adaptive** [BQBLN18]. **quality-managed** [PS05].

**Quality-of-Experience** [SkFM18]. **Quantitative** [RHS<sup>+</sup>20, HM10]. **Quantization** [RSE16, WZTL19]. **Quaternion** [HD19, YWNW15]. **Queries** [CGGC20, San11]. **Query** [HMOS17, YH14, JYZC12, KP08, LYJ<sup>+</sup>13, LMLC14, ZYM<sup>+</sup>10]. **query-adaptive** [LYJ<sup>+</sup>13]. **Question** [LXL<sup>+</sup>18, PN16, ZXY<sup>+</sup>20]. **questionnaires** [NT08]. **Queuing** [BYOZ20]. **QuGu** [LB15].

**Radial** [HD19]. **Random** [WZD<sup>+</sup>20, dAVVA20]. **Randomized** [LQZH14, BWA13]. **Rank** [LLSX20, LK18, PRGA18, YWG<sup>+</sup>20]. **Ranking** [YBO14]. **Rate** [DMF17, HYLD20, HH08a, MN16, MHCG19, PFC<sup>+</sup>16, YJM<sup>+</sup>19, ZZLL17, HH08b, HH11b, LCK09, LJP08]. **Rate-distortion** [HH08a, HH08b]. **RCE** [HPW20]. **RCE-HIL** [HPW20]. **RCNN** [TLZ<sup>+</sup>20]. **Re** [AQL<sup>+</sup>20, DFXY20, DLL<sup>+</sup>18, FZYY18, GL08, GLT<sup>+</sup>20, LZJ<sup>+</sup>20, LZC<sup>+</sup>19, SJC<sup>+</sup>19, YWH<sup>+</sup>17, YJTN18]. **Re-cinematography** [GL08]. **Re-Id** [GLT<sup>+</sup>20]. **Re-Identification** [DLL<sup>+</sup>18, LZC<sup>+</sup>19, YJTN18, AQL<sup>+</sup>20, DFXY20, FZYY18, LZJ<sup>+</sup>20, SJC<sup>+</sup>19, YWH<sup>+</sup>17]. **Reactions** [Abd18, KTK<sup>+</sup>17]. **reading** [ARE13, Dao17]. **Real** [BPM15, DG17a, EGEM06, FHG<sup>+</sup>17, IB10, KMP05, MDAE19, SAZ<sup>+</sup>15, HCKL13, KK08, KW11, SNC12, YSG<sup>+</sup>06]. **Real-Time** [BPM15, DG17a, FHG<sup>+</sup>17, MDAE19, SAZ<sup>+</sup>15, EGEM06, IB10, KMP05, HCKL13, KK08, KW11, SNC12, YSG<sup>+</sup>06]. **Realistic** [WWL20]. **Reality** [AWG<sup>+</sup>15, BLMP18, CGPCR18, LL15, REP<sup>+</sup>19, SRDJ18, VTP<sup>+</sup>20, VMP20, GYN12]. **realization** [SZ12]. **Reasoning** [DLZ<sup>+</sup>17]. **Rebuffering** [WBB<sup>+</sup>17]. **recall** [AG13, YZL<sup>+</sup>14]. **Receivers** [LPS15, QS10]. **Recognition** [AMC<sup>+</sup>18, AC19, ASLA18, BYM<sup>+</sup>18,

FSX14, GZLW18, HZW<sup>+11</sup>, HSZ<sup>+18</sup>, HP17, KP15, MZZ<sup>+20</sup>, MGP19, NRUT20, PS17, TYY<sup>+18</sup>, WJ15a, XFZ<sup>+19</sup>, YHQH17, ZHL19, ZLP<sup>+14</sup>, ZGD<sup>+19</sup>, ZZW<sup>+19</sup>, ZLH16, ZWF<sup>+20</sup>, KO11, LZP07, ML11, WT10]. **Recognizing** [HPW20, LLCH17, MDAE19]. **Recombination** [GAB<sup>+17</sup>]. **Recommendation** [DYSX14, HCWM14, HQF<sup>+20</sup>, KZGH15, WWHW14, WSLM18, YSXH16, ZCS<sup>+20</sup>, KS13, TBC<sup>+11</sup>, WWL13]. **Reconfigurable** [LYJ<sup>+15</sup>]. **Reconstructed** [WWH17]. **Reconstructing** [PB19]. **Reconstruction** [HZSC20, HSR18, JGZ<sup>+11</sup>]. **records** [LT14]. **Recreated** [SRDJ18]. **Recurrent** [ZQKH19]. **Reduce** [HLD18]. **Reduction** [LK18, YMA17, HCS12, JP11]. **Redundant** [HZSC20]. **REED** [AH12]. **Reference** [LLHS12]. **Refined** [LCW16]. **Refinement** [HYLD20, LZL20a, PB19, ZH18, ZHS20, ZXY<sup>+20</sup>]. **Region** [HWHL18, WLHL13, YHZ19, ZHS20, ZWYS20, FDKB11, LYC<sup>+12</sup>]. **Region-** [WLHL13]. **Region-Level** [ZWYS20]. **region-of-interest** [FDKB11]. **Regions** [KP15, SZTL16]. **registration** [DE12]. **Regression** [ZZL<sup>+17</sup>]. **rehabilitation** [CXS<sup>+08</sup>]. **Reidentification** [LKM17, ZZY18]. **reindexing** [WC12]. **Reinforcement** [BBZ18, WWHW14]. **Relationships** [YH14]. **Relevance** [DNPG<sup>+17</sup>, WWL13]. **reliable** [ZC12]. **Relying** [WKE16]. **remapping** [CCD07]. **remote** [SNC12]. **rendering** [KTM<sup>+06</sup>, SNC12]. **repairing** [DCM13]. **Replays** [JSEI16]. **report** [RJ05]. **Representation** [PQ19, SSY20, SZTL16, TWL19, ZZL<sup>+17</sup>, MGCH13, MHT<sup>+13</sup>]. **Representation-Based** [ZZL<sup>+17</sup>]. **Representations** [DHT<sup>+19</sup>, JCSL19, NRUT20, TAPP<sup>+15</sup>, ZLL20]. **Representing** [RT14]. **Request** [HJWW19]. **reranking** [TTR12]. **research** [CBS08, Eff13, RJ05, She13]. **Residual** [LSYM19]. **Residuals** [GS19]. **Resilient** [HD19]. **Resistant** [YJTN18]. **Resolution** [LSYM19, LCC<sup>+14a</sup>, KP08]. **resources** [FLM<sup>+06</sup>, MRS11]. **Responses** [LZXY20, NT08]. **Restoration** [CH15, LLSX20]. **Result** [TJN14]. **Retargeting** [KKGE18, ZLN<sup>+16</sup>]. **Rethinking** [ZQKH19]. **Retreat** [RJ05]. **Retrieval** [CGGC20, CDL<sup>+20</sup>, DNPG<sup>+17</sup>, DLZ<sup>+17</sup>, DHT<sup>+19</sup>, FWLA15, GLW20, GJAF18, HLX<sup>+14</sup>, LQH18, MGS18, NWL<sup>+20</sup>, PDD16, SBU<sup>+17</sup>, SHZ<sup>+20</sup>, SZTL16, WJ15a, WLHT19, YLK<sup>+20</sup>, YSZ15, YTRC19, ZZY<sup>+14</sup>, Cha13, DP06, FLM<sup>+06</sup>, Han13, hHLC10, LSDJ06, LBD08, LLW<sup>+13</sup>, LYJ<sup>+13</sup>, QLSQ12, TCJ08, Whi13, YGHH12, ZG08, ZHLY11]. **retrieving** [CW10]. **retrospective** [LWLZ13]. **reuse** [MRS11]. **revenue** [ILL08]. **revenue-rewarding** [ILL08]. **reversible** [NC13]. **Review** [TRK<sup>+20</sup>, ZYZE19a, TV07]. **Reviewers** [Ste13a]. **revision** [LT14]. **revisited** [BZ05]. **revocation** [YH13]. **revolution** [Swa13]. **reward** [BAK13]. **reward-and-punishment-based** [BAK13]. **rewarding** [ILL08]. **Rewighted** [WB16]. **RGB** [CRL20, WCLC18]. **RGB-D** [WCLC18]. **Rich** [TWL19, WCX<sup>+14</sup>, SWH06, TBC<sup>+11</sup>]. **Riemannian** [HPH<sup>+20</sup>]. **rights** [SEK12]. **RNN** [LZH<sup>+20</sup>]. **roadmap** [SZ12]. **Robust** [CCD07, DCC<sup>+13</sup>, GKSB17, GZL<sup>+20</sup>, LK18, LML<sup>+13</sup>, LPC<sup>+18</sup>, SG07, SZTT18, SHWC19, WLC<sup>+20</sup>, YWNW15, ZHS20, AP10, CWC10, GZHD12, MB08, VPSS<sup>+13</sup>]. **route** [ZYZ<sup>+13</sup>]. **Routing** [HJWW19]. **rules** [BAK13]. **S** [YHZ19]. **SABR** [BRZS18]. **SAfeDJ** [HDZ<sup>+15</sup>]. **Saliency** [CBSC18, HYLD20, ZWL<sup>+17</sup>]. **Saliency-based** [HYLD20]. **Salient** [TB05, ZHS20]. **SAMAF** [BSSNF<sup>+20</sup>]. **sample** [DCC<sup>+13</sup>]. **sampling**

[LK07, WDCX07]. **SARA** [YJM<sup>+</sup>19]. **Save** [SLP15]. **Saving** [HSN<sup>+</sup>14]. **Scalable** [GSM<sup>+</sup>08, GFB<sup>+</sup>14, SAF19, SZTL16, WAD<sup>+</sup>18, WZTL19, FKFB05, HH08a, HH08b, HH11c, JKKL08, RHS12, SAAH10, TCJ08, LCSX11]. **Scale** [BQBLN18, GJAF18, HDW<sup>+</sup>18, LSK<sup>+</sup>15, REP<sup>+</sup>19, ZWR<sup>+</sup>20, ZWYS20, CE10, CML<sup>+</sup>13, ML11, SX11, SW18, VGNL10, Whi13, WLZ08, YP20, ZJZC20, ZWS<sup>+</sup>20, ZJSJ20, ZLLT13]. **Scale-Adaptive** [BQBLN18]. **ScaleFFS** [JKKL08]. **scaling** [WCK05]. **Scattering** [YLCC18]. **Scene** [GF17, JCSL19, LOJZ18, LZL20b, WCLC18, XFZ<sup>+</sup>19, PJ13, SG07]. **Scenes** [LOJZ18]. **scenic** [ZYZ<sup>+</sup>13]. **Scent** [MLQM14, LCSX11]. **SCeVE** [VMP20]. **Scheduling** [SLP15, RWW05, WLQL12, ETF06]. **Scheme** [CPSH14, CXC<sup>+</sup>17, GZH17, HXZ<sup>+</sup>20, Zha19, GZHD12, ILL08, LLHS12, LC12, PBS12, ZC12, WWGT09]. **Schemes** [DLO<sup>+</sup>20, HM10]. **score** [HCS12]. **Screen** [BFAS15, MFL<sup>+</sup>16, CBR14]. **Screens** [NSJB17, KS09]. **SDN** [BBZ18, KCC17, OE19]. **SDN-Assisted** [OE19]. **SDN-Enabled** [BBZ18]. **Seam** [Hon19]. **Seamful** [NHP<sup>+</sup>16]. **Search** [AR15, CLP17, HMOS17, HLX<sup>+</sup>14, JLW<sup>+</sup>18, LKM<sup>+</sup>19, MKS20, TJN14, WHF<sup>+</sup>18, WLC<sup>+</sup>20, ZWYS20, HTT<sup>+</sup>11, JYZC12, LZP07, NW08, RW12, TTR12, YZL<sup>+</sup>14, ZYM<sup>+</sup>10, ZR13, ZLLT13]. **search-from** [ZR13]. **searching** [HCW<sup>+</sup>07]. **Second** [ZGM<sup>+</sup>20]. **Second-Order** [ZGM<sup>+</sup>20]. **Secret** [Lin15]. **Section** [APRS<sup>+</sup>19, YNC18, BSH08, CDGJ09, GPHOH12, KZHC13, NLS13, SHOG12]. **Secure** [BWA13, HZL<sup>+</sup>16, SRAA17, ZC12]. **Securing** [YMA17]. **security** [Kan12]. **See** [SkFM18]. **seen** [YZL<sup>+</sup>14]. **segment** [TCJ08, YJM<sup>+</sup>19]. **Segment-aware** [YJM<sup>+</sup>19]. **segment-event-object-based** [TCJ08]. **Segmentation** [CHLW19, LZP07, LDZ<sup>+</sup>20, PA20, TRRB20, YFLF19, ZCD15, ML11]. **Segments** [TKK<sup>+</sup>17]. **Seizure** [HAAM19]. **Selected** [PSS05]. **Selecting** [VV11]. **Selection** [Cla18, HZC<sup>+</sup>16, HSZ<sup>+</sup>18, NTT20, TAPP<sup>+</sup>15, WHW18, YBO14, YHZ19, ZZLL17, AKO07, CE10]. **Selective** [DHT<sup>+</sup>19, WHY18]. **Self** [AQL<sup>+</sup>20, WZTL19, WZD<sup>+</sup>20, YWH<sup>+</sup>17, DCM13]. **Self-attention** [AQL<sup>+</sup>20]. **Self-Organizing** [WZTL19]. **Self-Paced** [WZD<sup>+</sup>20]. **self-similarity** [DCM13]. **Self-Trained** [YWH<sup>+</sup>17]. **Selfies** [HHL19]. **Seller** [CSSZ19]. **Semantic** [DLZ<sup>+</sup>17, HH19, MHW<sup>+</sup>19, PA20, TJN14, WZNM14, WHW18, YZX16, YWG<sup>+</sup>20, YLK<sup>+</sup>20, YFLF19, ZZY<sup>+</sup>14, ZLN<sup>+</sup>16, ZCY<sup>+</sup>19, ZZW<sup>+</sup>19, JP11, MTTH13, Yan10, ZI13, FLM<sup>+</sup>06]. **Semantics** [GLC05, TWL19, SWH06]. **Semi** [hHLC10, ZZL<sup>+</sup>17, ZHLY11]. **Semi-Supervised** [ZZL<sup>+</sup>17, hHLC10, ZHLY11]. **send** [CBJ<sup>+</sup>09]. **Sensations** [RD17]. **Sensing** [APV08, EC16, HJMY15, LL15, ZDE16, DE12, JYZC12, MVW08]. **Sensitive** [AGC<sup>+</sup>18, ACGH18]. **Sensitivity** [HZSC20]. **Sensor** [EC16, MC19, VCO15, YHQH17, CW10, FKFB05, GLWK19, Hae10, LCS09]. **Sensor-enhanced** [LCS09]. **Sensor-Enriched** [VCO15]. **Sensor-Metadata** [MC19]. **Sensorial** [GTLG14a, Ano13]. **Sensors** [Chu15, NRUT20, SVF12]. **Sensory** [RT14, RHS10]. **Sentence** [LZW<sup>+</sup>19]. **Sentiment** [PN16, SSY20]. **Sequence** [BSSNF<sup>+</sup>20]. **Sequence-to-sequence** [BSSNF<sup>+</sup>20]. **Sequences** [LDZ<sup>+</sup>20, HH08a, HH08b, LK07]. **Sequential** [HQF<sup>+</sup>20, LKM<sup>+</sup>19, YP20]. **serendipitous** [CY11]. **Series** [LPC<sup>+</sup>18]. **Server** [CE10, LDT<sup>+</sup>18, SLP15, AH12, HB08, LJP08]. **Service** [FAA18, GJAF18, REV<sup>+</sup>12, ZCL<sup>+</sup>12]. **Services** [CXW<sup>+</sup>19, CZC15, PVWD18,

SKVHC18a, SKVHC18b]. **set** [WDCX07]. **Sets** [PRGA18]. **SEVA** [LCS09]. **Shared** [CS17, CLS17, JCSL19, LCS17, YLK<sup>+</sup>20]. **Shares** [SA16]. **Sharing** [LCL14, Lin15, MFL<sup>+</sup>16, SZTZ18, CBJ<sup>+</sup>09, CY11, CBR14, CSJ<sup>+</sup>08, CL12, SX13]. **Shoe** [HLX<sup>+</sup>14]. **shooter** [AH12]. **Shopping** [AWG<sup>+</sup>15, JWF18]. **ShotVis** [ZZC<sup>+</sup>15]. **Showdown** [LKM<sup>+</sup>19]. **Shuffled** [MKS20]. **SHVC** [SAF19]. **Sides** [Hon19]. **SIFT** [ZLLT13]. **Sightseeing** [FMIS17]. **SIGMM** [RJ05]. **Sign** [GZLW18]. **Signal** [YP15]. **Signals** [ZGD<sup>+</sup>19, ZWF<sup>+</sup>20, And13]. **Signals-based** [ZWF<sup>+</sup>20]. **signatures** [ASVE13]. **Similarity** [AR15, HMOS17, LCW16, PRGA18, SJC<sup>+</sup>19, SHZ<sup>+</sup>20, DCM13, HOSS13, KS13, LZP07, NW08, VV11]. **Similarity-Preserving** [SHZ<sup>+</sup>20]. **Similarly** [ROST20]. **Simplification** [BLMP18, YK07]. **Simplistic** [GS19]. **Simulate** [RD17]. **Simulating** [SKW<sup>+</sup>15]. **Simulation** [CGPCR18, SHIE15]. **simulcast** [HH11c]. **Simultaneous** [LCC<sup>+</sup>14b, CCG<sup>+</sup>08, DCC<sup>+</sup>13]. **Single** [CH15, CRL20, HSR18, LSYM19]. **singular** [BWA13]. **Site** [SRDJ18]. **Situation** [HDZ<sup>+</sup>15]. **Situation-Aware** [HDZ<sup>+</sup>15]. **Skeleton** [YJTN18, ZLP<sup>+</sup>14]. **Skeleton-Based** [YJTN18]. **SKEPRID** [YJTN18]. **Sketch** [LMF<sup>+</sup>14]. **Sketch-Based** [LMF<sup>+</sup>14]. **skew** [SOC<sup>+</sup>13]. **Skews** [AMMG16]. **skimming** [LGX<sup>+</sup>08]. **Skip** [ZLK<sup>+</sup>19]. **Skipped** [PLZW18]. **small** [KS09]. **Smart** [HJMY15, NSJB17, RK15, MVW08, SCFL14]. **Smartening** [BPT<sup>+</sup>15]. **Smartphone** [BFAS15, LL15, SCXC15, VCO15, ZZC<sup>+</sup>15]. **Smartphone-Based** [SCXC15, ZZC<sup>+</sup>15]. **Smartphone-Controlled** [BFAS15]. **smell** [GA12a]. **SMIL** [BB11]. **Smooth** [YSG<sup>+</sup>06]. **Smoothly** [dAVVA20]. **Social** [APRS<sup>+</sup>19, CSJC17, LCL14, LSK<sup>+</sup>15, MY15, QZXH14, SX13, SZTZ18, TAS16, TVK18, TVZ<sup>+</sup>19, Yan17, ZGL<sup>+</sup>18, APV08, BRA<sup>+</sup>09, BGP11, BLJX10, BJLX11, CBJ<sup>+</sup>09, CYMW07, LCSX11, LSDK12, MHT<sup>+</sup>08, RSB11, SX11, TBC<sup>+</sup>11, WWL13, WZC<sup>+</sup>13]. **social-aware** [WZC<sup>+</sup>13]. **socialized** [CL12]. **Socially** [BCG13]. **Socially-aware** [BCG13]. **software** [IB10, MPSR05]. **Solfège** [SDJ17]. **Solution** [BQBLN18, SRPH16]. **Soul** [HYSL20]. **Soundscape** [SRDJ18]. **Source** [GIL<sup>+</sup>10]. **sourced** [MC19]. **sources** [XC06]. **Space** [HLD18, YLK<sup>+</sup>20, ML11]. **Spark** [GJAF18]. **Sparse** [GZL<sup>+</sup>20, TTR12, ZZL<sup>+</sup>17, CML<sup>+</sup>13]. **sparsity** [JGZ<sup>+</sup>11, LYC<sup>+</sup>12]. **Spatial** [LZJ<sup>+</sup>20, RHS10, YH14, YSZZ14, YFLF19]. **Spatial-geometric** [RHS10]. **Spatial-Temporal** [YSZZ14]. **Spatio** [HYLD20, LDZ<sup>+</sup>20, DMSRL18, CWC10]. **Spatio-Temporal** [DMSRL18, HYLD20, LDZ<sup>+</sup>20, CWC10]. **Speaker** [HKYW14, FYH10]. **Speaker-Following** [HKYW14]. **Special** [ACGH18, APRS<sup>+</sup>19, BSH08, CCO15, GS11a, GTLG14a, HT15, ODMD17b, PCH<sup>+</sup>20, SCXC15, SKVHC18a, TKPL20, YNC18, ZZMS14, ZYZE19b, ZZX<sup>+</sup>20, ZJSJ20, BLJX10, BJLX11, CCK06, CDGJ09, CBS08, GPHOH12, GDGC07, Hae10, Kan12, KZHC13, NLS13, SHOG12]. **Specific** [ZH18, ADCB07]. **Spectator** [Abd18]. **Spectators** [JSEI16]. **Spectral** [HZSC20, YGNT19]. **Spectrum** [DMF<sup>+</sup>20, WBRZ17]. **Spectrum-Based** [WBRZ17]. **Speech** [KP15, WWH17, YMA17, CL07]. **speech-to-text** [CL07]. **Spider** [KH13]. **Sports** [CED<sup>+</sup>16, TCJ08, XC06, XXD<sup>+</sup>08]. **Spot** [VVSV17]. **Spott** [VVSV17]. **Sprite** [CDA12]. **Stacked** [ZHS20]. **Stall** [ZQRS18]. **Stall-Aware** [ZQRS18]. **State** [GTLG14b, LSDJ06]. **States** [ZQKH19]. **Statistical** [GHP<sup>+</sup>06, HH11b, ZLK<sup>+</sup>19]. **Status** [PVWD18]. **Steganalysis**

[YI14, LSQ11]. **Steganalytic** [Ber18]. **Steganographer** [ZWR<sup>+</sup>20]. **Stereo** [Hon19, YP15, DÇ07]. **Stereoscopic** [CED<sup>+</sup>16, Chu15]. **Still** [ZLL20]. **stills** [TB05]. **Stimulation** [RD17]. **Stimuli** [LGF<sup>+</sup>14]. **Stochastic** [CXW<sup>+</sup>19, GL12]. **Storage** [EG17]. **stories** [RSB11]. **story** [JSL07, JWL06]. **story-oriented** [JSL07]. **Storytelling** [WPRC18]. **Strategies** [CDZ<sup>+</sup>17, SSSK18]. **Strategy** [HZC<sup>+</sup>16, WHW18, WHY19, FLZ<sup>+</sup>12]. **Stream** [GKSB17, KMP05, ZCAP08]. **streamed** [DCM13, HH11b]. **Streaming** [AH20, BPM15, BBZ18, BYOZ20, BRZS18, BQBLN18, CED<sup>+</sup>16, CDZ<sup>+</sup>17, FLP<sup>+</sup>20, GGB14, HSN<sup>+</sup>14, HJWW19, HXZ<sup>+</sup>20, JSEI16, KABB20, LYJ<sup>+</sup>15, LCS17, MN16, MATW17, NTT20, PB14, PFC<sup>+</sup>16, PVWD18, RXC14, SS17, SYS17, TAPP<sup>+</sup>15, VTP<sup>+</sup>20, WCO15, WCY<sup>+</sup>18, BLS<sup>+</sup>19, YJM<sup>+</sup>19, Zha19, ZLP<sup>+</sup>14, ZLOL18, Bag11, COM<sup>+</sup>11, GS11b, GSM<sup>+</sup>08, GKW08, HH08a, HH11a, ILL08, JC10, LLP06, LCK09, LLKL11, LWLZ13, LLSC12, LCT<sup>+</sup>12, LH12, MCM<sup>+</sup>09, REV<sup>+</sup>12, SKSZ13, SAAH10, SZ12, Swa13, TSHP05, TNEc08, WKST08, WWGT09, WCK05, WLZ08, WLQL12, WLZ12, ZSO13, ZC12]. **Streams** [BXMH15, AKO07, HM10, JP11, LZP07, LSDK12, QS10, San11]. **stroke** [CXS<sup>+</sup>08]. **Strongly** [SSY20]. **Strongly-** [SSY20]. **Structure** [CAJ19, LPY<sup>+</sup>19, WCLC18, YFLF19, LSDK12, SG07, XMST07]. **Structure-Aware** [CAJ19, WCLC18]. **Structure-Preserving** [LPY<sup>+</sup>19]. **Structured** [BH05, ZLP<sup>+</sup>14, JKKL08]. **Structures** [Tas20]. **Student** [BPT<sup>+</sup>15]. **Study** [LSL<sup>+</sup>20, DY09, TSHP05, WKST08]. **Studying** [RD17]. **Style** [SZM<sup>+</sup>19, SWH06]. **Styles** [dAVVA20]. **Subjective** [APRS<sup>+</sup>19, NH10]. **subset** [AKO07]. **Subspace** [YWH<sup>+</sup>17]. **Substituted** [HD19]. **Subtitle** [YHZ19]. **Subtitles** [HKYW14]. **Subtle** [HPH<sup>+</sup>20]. **success** [GA12a]. **successes** [Row13]. **Suggesting** [JYZC12]. **suggestion** [ZYM<sup>+</sup>10]. **summaries** [VM12, MA10]. **Summarization** [GWM<sup>+</sup>14, HP17, SSBT20, TVK18, ZZZ14, HTT<sup>+</sup>11, LGX<sup>+</sup>08, MTTH13, SXM<sup>+</sup>06]. **sung** [ML11]. **Super** [LSYM19]. **Super-Resolution** [LSYM19]. **Supervised** [QZXH14, SSY20, TYY<sup>+</sup>18, WZTL19, ZYL<sup>+</sup>17, ZJZC20, hHLC10, ZHLY11]. **Supplement** [Ano11, Ano12, Ano14, TOM12]. **supplemental** [Dao17]. **Support** [CHHH18, PB14, TB17, ZCS<sup>+</sup>20, ARE13, ONH07]. **Supporting** [AWG<sup>+</sup>15, FDKB11]. **Surgery** [CGPCR18]. **Surveillance** [ATS19, GZH17, KD18, NAK15, SKR09, SVF12]. **Survey** [AGC<sup>+</sup>18, AC19, GF17, KKGE18, NAK15, NSJB17, ODMD17a, SKVHC18b, ZDE16, ZWS<sup>+</sup>20, ZGL<sup>+</sup>18, HMVI13, KS13, SCFL14]. **SVC** [FSK<sup>+</sup>15]. **sweet** [GA12a]. **Switch** [DMF17]. **Switch-Based** [DMF17]. **Switching** [Zha19, HH11c]. **Symmetrical** [LSYM19]. **Synchronization** [Abd18, MLQM14, XW17, HNS13]. **Synthesis** [CRL20, WWL20, MSL10, YK07]. **synthesized** [LBD08]. **Synthesizing** [SSK20]. **System** [ATS19, CHHH18, CS17, DMF17, HDW<sup>+</sup>18, LCC<sup>+</sup>14a, LLJW15, LCC<sup>+</sup>14b, LGF<sup>+</sup>14, MY15, MFL<sup>+</sup>16, MDAE19, RPE<sup>+</sup>17, ROST20, SAF19, SRAA17, TB17, WCY<sup>+</sup>18, YBO14, ZCS<sup>+</sup>20, ARE13, BBT<sup>+</sup>05, CEE09, JWL06, JKKL08, KH13, ONH07, RWW05, SNC12, TCJ08, VGNL10, WT10, YH13, ZRCH08]. **systematic** [TV07]. **Systems** [CHHH18, KD18, MN16, NAK15, SS17, SCXC15, TB17, CCK06, CPP<sup>+</sup>13, CE10, CW10, DY09, GDGC07, HAS11, ILL08, JKKL08, Shel3, SKR09, Sun13, TSHP05, YH13, ZCL<sup>+</sup>12, ZSO13, CPP<sup>+</sup>14]. **Table** [Ano11, Ano12, Ano14, Dao17, TOM12].

**Tactile** [KTK<sup>+</sup>17]. **Tag** [YSZZ14, CBJ<sup>+</sup>09, MPE<sup>+</sup>11]. **tagging** [TCW<sup>+</sup>13, YYS13]. **Tags** [PDD16, Yan17, LYC11]. **Taking** [HHL19]. **tamper** [NC13]. **Tampering** [SRAA17]. **Tape** [CFP15]. **Target** [Cla18]. **targeted** [RW12]. **Task** [WYM18, AG13, ZZW<sup>+</sup>19]. **Taste** [RD17]. **TCP** [GKW08, TNEcC08, WKST08, WWGT09, WCK05]. **TCP-friendly** [WCK05]. **TDMA** [BOZ17]. **team** [XC06]. **Techniques** [LZL20a, TRK<sup>+</sup>20, VVSV17, DY09]. **Technologies** [SCXC15, FKFB05]. **tele** [WAK<sup>+</sup>12, YWN<sup>+</sup>10a, YWN<sup>+</sup>10b]. **tele-immersive** [WAK<sup>+</sup>12, YWN<sup>+</sup>10a, YWN<sup>+</sup>10b]. **Telehaptic** [GNC17]. **Teleoperation** [CXC<sup>+</sup>17]. **Telephone** [Cho13]. **Teleportation** [Cho13]. **Television** [VVS17, CVV06, CBS08, MHT<sup>+</sup>08, OBBW12, Cho13]. **Temporal** [CFGW05, LPC<sup>+</sup>18, DMSRL18, SHZ<sup>+</sup>20, YHQH17, YSZ14, BZ05, CWC10, HYLD20, HNS13, LK07, LDZ<sup>+</sup>20, MHT<sup>+</sup>13, QHR<sup>+</sup>08, WCK05]. **ten** [JPS05]. **Tensor** [DLL<sup>+</sup>20, FKCW20]. **Tensor-based** [FKCW20]. **terminals** [CVV06, LC12]. **Termination** [ZLK<sup>+</sup>19]. **terminology** [ENHN09]. **testbed** [HH12b]. **Testing** [REP<sup>+</sup>19]. **Text** [LZW<sup>+</sup>19, LZL20b, XFZ<sup>+</sup>19, ZZG<sup>+</sup>20, CL07, JWL06]. **Textual** [SSBT20, YMX<sup>+</sup>16]. **them** [Dao17]. **theoretic** [PBS12]. **Theory** [BYOZ20, Zho16, ZWM12a]. **Thinking** [WPRC18]. **thousands** [ZR13]. **Three** [NWL<sup>+</sup>20]. **Three-dimensional** [NWL<sup>+</sup>20]. **Throughput** [MATW17]. **Thumbstick** [Cla18]. **Tile** [NTT20, VTP<sup>+</sup>20]. **Tile-based** [VTP<sup>+</sup>20]. **Time** [BPM15, BZDX<sup>+</sup>18, DG17a, DYSX14, FHG<sup>+</sup>17, LPC<sup>+</sup>18, MDAE19, SAZ<sup>+</sup>15, EGEM06, HCKL13, IB10, KK08, KMP05, KW11, SAAH10, SNC12, YSG<sup>+</sup>06]. **Time-Aware** [DYSX14]. **Timing** [CSJC17]. **Today** [LXL<sup>+</sup>14]. **TOMCCAP** [Geo05]. **TOMM** [Dao17]. **Tongue** [RD17]. **Tool** [HHL19, SDJ17, BB11]. **Top** [GWM<sup>+</sup>14]. **Top-Down** [GWM<sup>+</sup>14]. **Topic** [BXMH15, WXQC20, SX11]. **Topic-aware** [WXQC20]. **Topics** [YGNT19]. **topographic** [WYM07]. **topography** [VPSS<sup>+</sup>13]. **Topological** [LCW16]. **topologies** [WLZ08]. **Touchable** [CEE09]. **Tourist** [DNPG<sup>+</sup>17]. **Tours** [VMP20]. **track** [WYM07]. **Tracking** [CZW15, GZH17, GZL<sup>+</sup>20, LL15, MHCG19, ZX14, ADCB07, CCD07, FPH<sup>+</sup>08, GDGC07, KO11, WT10]. **Traffic** [KW11, GIL<sup>+</sup>10]. **Trained** [YWH<sup>+</sup>17]. **Training** [CGPCR18, PDD16, LGX<sup>+</sup>08, WDCX07]. **Transactions** [BLJX10, Geo05]. **Transcoding** [HJWW19, SLP15, LS05, LLSC12, LC12, LCT<sup>+</sup>12]. **Transfer** [SZM<sup>+</sup>19, WHY19, YZXY15, ZCY<sup>+</sup>19, TTR12, YYS13]. **Transform** [YWNW15]. **transformation** [GZHD12]. **Transmission** [BOZ17, EWSZ15, CLC05, KW11, LC12, MC11, PBS12]. **transport** [OMP07, YSG<sup>+</sup>06]. **transport-level** [OMP07]. **Treatment** [ZCS<sup>+</sup>20]. **tree** [LS05]. **Trees** [LQZH14]. **Triplet** [JWF18]. **Trust** [MY15]. **Tucker** [ZYL<sup>+</sup>17]. **Tuning** [SHWC19, FZYY18]. **TV** [HH12b, HH11c, KS09, UTK<sup>+</sup>08, WWL13, YH13]. **twenty** [Eff13, She13, Tur13]. **Twitter** [DYSX14]. **Two** [LWLZ13, NWL<sup>+</sup>20]. **Two-dimensional** [NWL<sup>+</sup>20]. **U** [PA20, WWL20]. **U-Net** [PA20, WWL20]. **Ubiquitous** [BPT<sup>+</sup>15, SSTK07, ARE13, CTGP08]. **unconscious** [And13]. **Under-Exposure** [HSR18]. **Understanding** [APRS<sup>+</sup>19, BBT<sup>+</sup>05, GF17, LCL14, TVZ<sup>+</sup>19, VGNL10, YNC18, YZX16]. **unequal** [CLC05]. **Unexpanded** [SA16]. **Unified** [FKCW20, YSXH16, ZZY<sup>+</sup>14, YGHH12].



**Uniform** [LQZH14]. **Unpleasant** [KYVE14]. **Unsupervised** [DFXY20, FZYY18, KLS<sup>+</sup>18, PRGA18, ZLL20]. **Unwanted** [MY15]. **Up-conversion** [HYLD20]. **Up-Fusion** [WRK14]. **update** [LW07]. **Uplink** [EWSZ15]. **Urban** [LB15]. **Usage** [REP<sup>+</sup>19, MMW10]. **Use** [YSZ15, CCK06, SSTK07]. **User** [BC15, CS17, EG17, FHG<sup>+</sup>17, GA12b, HDW<sup>+</sup>18, LLJW15, LCC<sup>+</sup>14b, MZL<sup>+</sup>18, ROST20, TYY<sup>+</sup>18, YSXH16, YBO14, YCGM14, ZZZ14, And13, GG06, ZYM<sup>+</sup>10, ZCY<sup>+</sup>13, ZSO13]. **User-Click-Data-Based** [TYY<sup>+</sup>18]. **user-generated** [ZCY<sup>+</sup>13]. **User-Preference-Aware** [LLJW15]. **Users** [ROST20, CY11, HWY<sup>+</sup>11]. **Using** [ASLA18, BZDX<sup>+</sup>18, CGGC20, CSJC17, Chu15, FSK<sup>+</sup>15, FHG<sup>+</sup>17, GJAF18, GZL<sup>+</sup>20, HD19, HMOS17, HH11c, KP15, LQZH14, LCS17, LCC<sup>+</sup>14a, MZZ<sup>+</sup>20, MHC919, MATW17, NRUT20, PS17, RSE16, RHS<sup>+</sup>20, SSK20, SRAA17, TBC<sup>+</sup>11, TRRB20, VVSV17, WYM07, WSLM18, Yan17, YWNW15, YP15, ZCY<sup>+</sup>19, ZGL<sup>+</sup>18, APV08, ASVE13, AH12, BAK13, CDA12, CLS17, CSSZ19, DL14, ETF06, GFB<sup>+</sup>14, GHP<sup>+</sup>06, HCW<sup>+</sup>07, HOSS13, HCS12, JC08, MSL10, MVW08, NT08, REV<sup>+</sup>12, RW12, TS20, TNEcC08, YQH12]. **Utility** [RT14].

**V** [HP17]. **V-JAUNE** [HP17]. **Validation** [DMSRL18, SEK12]. **Value** [AR15, SZHY19, BWA13]. **vantage** [VV11]. **Variable** [KMSW18, HH11b]. **variable-bit-rate** [HH11b]. **Variable-to-Variable** [KMSW18]. **Variables** [MGS18]. **Variate** [LPC<sup>+</sup>18]. **VBR** [KW11]. **Vector** [CZW15, HYLD20, LH20]. **Vehicular** [BOZ17, LB15]. **Verb** [PRH14]. **Verification** [Lin15, ZWYS20, ASVE13, ZLLT13]. **Version** [BCP14]. **versus** [MGP19]. **Via** [HWHL18, AWG<sup>+</sup>15, CDL<sup>+</sup>20, DCC<sup>+</sup>13, GLC05, HPH<sup>+</sup>20, KTK<sup>+</sup>17, LT14, LCW16, LLSX20, LL15, LWZH19, NLN<sup>+</sup>13, QZXH14, SHWC19, TBC<sup>+</sup>11, TYY<sup>+</sup>18, WKST08, WWGT09, WC12, WHW18, WLL<sup>+</sup>19, WXQC20, YNC18, YWG<sup>+</sup>20, YP20, ZX14, ZWR<sup>+</sup>20, ZWF<sup>+</sup>20]. **Vibrotactile** [PRH14]. **Video** [MA10, AGC<sup>+</sup>18, ACGH18, ABR17, AH20, ATS19, BDV08, BPM15, BFAS15, BRA<sup>+</sup>09, BYOZ20, BRZS18, BZDX<sup>+</sup>18, CPSH14, CPP<sup>+</sup>14, CHHH18, CZC15, CHLW19, DLZ<sup>+</sup>17, DYSX14, DG17b, EWSZ15, FLP<sup>+</sup>20, GKSB17, GF17, GWM<sup>+</sup>14, HWY<sup>+</sup>11, HWLC19, HKYW14, HJWW19, HCWM14, HDW<sup>+</sup>18, HP17, IVS<sup>+</sup>20, JC08, KKGE18, KLS<sup>+</sup>18, KD18, KO11, KZGH15, LYJ<sup>+</sup>15, LCL14, LB15, LLSX20, LMF<sup>+</sup>14, MGS18, MN16, MKS20, NTT20, PYZ<sup>+</sup>20, PFC<sup>+</sup>16, PVWD18, REV<sup>+</sup>12, SS17, SAF19, SHZ<sup>+</sup>20, SkFM18, SSSK18, SYS17, SLP15, TWL19, TB17, TV07, TESU16, VVSV17, VTP<sup>+</sup>20, WZNM14, WCO15, WAD<sup>+</sup>18, WCY<sup>+</sup>18, BLS<sup>+</sup>19, YSXH16, YZX16, YJM<sup>+</sup>19, YH14, YSZZ14, YSZ15, ZQRS18, ZCD15, Zha19, Zho16, ZLOL18, ZGL<sup>+</sup>18, ZXY<sup>+</sup>20, ADCB07, CPP<sup>+</sup>13, CE10, CTGP08, CBJ<sup>+</sup>09, CEE09, CL12, CWC10, EGEM06, FKFB05, GL08, HH08a, HB08, HH08b, HH11a, HH11c, Hua13, IB10, JCC<sup>+</sup>10, JSL07]. **video** [KH13, KS09, LLHS12, LWL<sup>+</sup>12, LWLZ13, LK07, LCS09, LC12, LCT<sup>+</sup>12, LH12, LGX<sup>+</sup>08, MDMK06, MPSR05, MTTH13, MC11, NH10, PBS12, QHR<sup>+</sup>08, QS10, RHS12, RW12, SAAH10, SOC<sup>+</sup>13, SVF12, SWH06, Swa13, TC08, TTR12, TCJ08, VM12, WC12, WAK<sup>+</sup>12, XC06, XXD<sup>+</sup>08, YSG<sup>+</sup>06, YYS13, YZL<sup>+</sup>14, LKM<sup>+</sup>19]. **video-on-demand** [CE10, TC08]. **Videoconferencing** [DMF17, BBT<sup>+</sup>05]. **videography** [HWG07]. **Videos** [CED<sup>+</sup>16, GZH17, LCS17, LZC<sup>+</sup>19, TJN14, WKE16, ZZZ14, DCO10, HH12a, HTT<sup>+</sup>11, HH11b, HZW<sup>+</sup>11, KW11, SXM<sup>+</sup>06, YZL<sup>+</sup>14]. **View**

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**web** [HZW<sup>+</sup>11, SX11, YGHH12, ZLLT13, AP13, BYM<sup>+</sup>18, CL07, FLM<sup>+</sup>06, GJAF18, HTT<sup>+</sup>11, LWL<sup>+</sup>12, LOJZ18, MGCH13]. **Web-accessible** [AP13]. **Web-based** [CL07, MGCH13]. **web-scale** [SX11, GJAF18]. **webcams** [AP13]. **websites** [SX13, LXL<sup>+</sup>18]. **Weighted** [YWG<sup>+</sup>20]. **Weights** [AAS<sup>+</sup>20, PDD16]. **Well** [HHLY19]. **Well-Posed** [HHLY19]. **we've** [Cha13]. **Whale** [TRRB20]. **wide** [CY11, WLZ12]. **Wikipedia** [ENHN09]. **Wireless** [BPM15, KD18, WCO15, BDV08, CY11, GS11b, HNL08, HH11a, LCK09, YSG<sup>+</sup>06]. **within** [MRS<sup>+</sup>07]. **without** [LW07]. **WLANs** [KW11, PBS12]. **WMD** [ATS19]. **Wolf** [AAS<sup>+</sup>20]. **Word** [MSL10]. **Words** [WCX<sup>+</sup>14, WZNM14]. **Words-and-Pictures** [WCX<sup>+</sup>14]. **Workshop** [CHHH18, TB17]. **world** [WLHL13]. **worldwide** [SSS13]. **Wow** [LXL<sup>+</sup>14]. **writing** [LT14]. **WWW** [HCW<sup>+</sup>07].

**XMT** [SG07].

**years** [Cha13, Eff13, JPS05, Row13, She13, Tur13, Whi13, ZR13]. **YouTube** [BGP11, DYSX14, KLS<sup>+</sup>18, KZGH15].

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