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14 [FWM⁺14a].
2.5D [FFSS17]. 2017 [MDE⁺19].
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4 [CRH⁺14].
1 [GCJ⁺14]. 2.5 [WSFS19, WAS16]. 3 [BWH18, CT14, GDM18, HB17, SMH14, YLLC19, vMM14]. α [VZC14]. β [FSO17]. ℓ_1 [FWF17]. ℓ_p [HCBY18]. I [CL14a, MPC16, MZM15, SLK17, BHS⁺16, CPL14, XYH14]. N [MHBT15]. t [CS19, LBR18].
-D [CT14, HB17, WAS16].
-Divergence-Based [FSO17]. **-Gram** [MHBT15]. **-integration** [VZC14]. **-Norm** [GCJ⁺14, HCBY18]. **-Optimal** [FWF17].
-Source [CS19, LBR18]. **-Vector** [BHS⁺16, XYH14, CPL14, MPC16, CL14a].
-Vector-Based [SLK17]. **-Vectors** [MZM15].
AAC [CRH⁺14]. **Abstractive** [ZZZ16].
Accelerometer [MVH16]. **Accent** [BHS⁺16, ZGO19]. **Access** [Ano14-82, Ano14-83, Ano14-84, Ano14-85, Ano14-86, Ano14-87, Ano14-88, Ano14-89, Ano15-71, Ano15-72, Ano15-73, Ano15-74, Ano17-70, Ano17-71, Ano17-72, Ano17-73, Ano17-74, Ano17-75, Ano17-76, Ano17-77, Ano18-43, Ano18-67, Ano18-68, Ano14-90, Ano14-91].
Accompanied [CWJ16]. **Accompaniment** [RLS⁺18, WC16b]. **Accordance** [WC16b].

Accuracy [HB17, OHN16, WTQ⁺19].
Accurate [MBM15]. **ACE** [EGMN16].
ACM [Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48, Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-44, Ano15-54, Ano15-45, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano15-59, Ano16k, Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37, Ano16-41, Ano17-59, Ano17-60, Ano16i, Ano16j, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t, Ano17u, Ano17v, Ano17w]. **ACM** [Ano17x, Ano17y, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano19a]. **Acoustic** [AB18, ATS18, AA17, AM18a, ADM⁺19, BBM17, BSR17, BH19, BSER17, BMVG17, CTSC14, CH16, CG17, CWJ15, Chi15b, CWJ16, CC15, CTLL17, CL18a, CPSFC⁺14, CSAR⁺14, CGK15, DLY⁺19, DAMvW15, DKO⁺18, DLMM⁺18, DG15, DMP⁺18, EGMN16, Emu18, EN18, FZZ⁺15, GTS⁺19, GDC19, GR14, GCvWMJ14, GHAP17, GPF17, Hac14, HH14, HF15, HGAPB15, HHC16, IO17, IO19, JJB16, KJG16, KLK17, KWGW17, KKGK18, KD16, KD17, KNH⁺17, KSHH18, KBT19, LLR⁺16, yLsL14, LAK16, LK16, MKA⁺14, MAB⁺16, MVH16, MHB⁺18, MZM15, NW15, NDV18, PC19, PMMM15, RJCW17, RLPK15, SV18, SDF18, SS16, SHAGPRZ17, SD16b, SD16a, SK16a, SGA15, SMA⁺17, SLGA15, SHDG16, SMSV17, SBG17, SSS18, SR16b, SLR16, TD16, TQY16, TK14, VH19, VAH19, VRN18, WLL⁺15a, WCY19, WSY14, WRK18, XGKM18, YK17, YsL15]. **Acoustic** [ZZH16, ZHH18, ZW19, ZHH19, ZLL⁺19, ZYG⁺14, ZH15, vMM14].
Acoustic-Articulatory [GHAP17, HGAPB15]. **Acoustic-Phonetic** [CWJ15, CWJ16].
Acoustic-to-Articulatory [JJB16].
Acoustic-to-Word [DLY⁺19]. **Acoustical** [LLLL19]. **Acoustics** [BHBS16, BS14, DHCS15, HB17, SRH15, SLH17].
Acquisition [PCW15, RV17, TH16].
Acronyms [MK15a]. **Across** [CTSC14, YLD15]. **Act** [MHBT15]. **Acted** [OR16a]. **Action** [WBSG18]. **Activation** [ZYG⁺14]. **Active** [AA17, AKN⁺16, BSB14, BBJ18, CC14a, CE14, CD17, GdC14, LC16b, LFdDG14, MX17, NNL15, PCG17, YH17, ZAZ⁺18, ZTQB19]. **Activities** [SBG17].
Activity [BE17, CE15, CC14b, DTC15, DTC16, DTC17, DB17, DSH18, GG18, McL14, YLY15, ZW16a]. **ACVAE** [KKTH19]. **ACVAE-VC** [KKTH19]. **Ad** [TJCB16, WC18b]. **Ad-hoc** [WC18b].
Adaptation [ARSLN16, BDV⁺14, BE17, CWYC17, Chi18a, DHD⁺19, DKO⁺18, DBM15, GR14, KWGW17, LCWC16, LMC18, MK15a, MH18, MSD14, NXCL16, RLPK15, SS16, SDK17, SZL19, SR16b, SLR16, WUF⁺18, XYH14, XAHJ⁺14].
Adapted [DAGS⁺18]. **Adaptive** [AM16, BBC⁺16, BvWWM17, BvWM18, CE15, CD17, DKO⁺18, DWX⁺16, FWM⁺14a, FWM⁺14b, FNA15, FdDARF16, GCvWMJ14, HCBY18, HGAPB15, KKJN17, LCLM18, LC16b, LG16, LFdDG14, MMCF18, MSB18, MZM15, MDM15, NTM16, NW15, PPSG17, RG15b, RG17, RLK14, SP15, TM16, TZA14, TQY16, TQH⁺18, TNS⁺18, YK14, YEY17, ZEM18].
Additive [HCJT15]. **Adequacy** [BDL15].
Adjustable [WW15]. **Adjusted** [SAB16].

Adjustment [CWH⁺16]. **Admittance** [MSS17]. **Advancements** [LH14].
Advancing [DLY⁺19, Ano14-115, Ano14-116].
Adversarial [AB18, BCCZ19, BGD⁺18, LFQL19, LCTA19, STS18, TL19, YTWB19].
Adverse [VMOL16]. **Affective** [WYLZ16, WC16b]. **Affects** [WTQ⁺19].
Affine [ZN14]. **Against** [CH18, TK14].
AGC [YLD15]. **AgentGraph** [CCT⁺19].
Aggregation [LWJ19]. **Aging** [KH16].
Agreement [PCB16b]. **Aid** [FPTJ17, SSFP18, SP15, WW15, YLJ16, KA16].
Aided [MFG15, QMS16, hShWsL15]. **Aids** [AHH⁺19, ABKP19, FWM⁺14a, FWM⁺14b, IC19, KNBC19, KPH15, MHD15, MHGD15, NNL15, PPSG17, SGM⁺15, SD16b, SD16a, SNTD19, TNS⁺18, YKPMP18, ZEM18]. **Air** [SFK15]. **Air-** [SFK15]. **Airflow** [CWCP17].
Alaryngeal [DTN⁺14]. **Algorithm** [AAA19, CBA⁺15, CC14a, CC15, DC16, DG15, DPHG18, GTS⁺19, GLQ16, GB14, JT16, KBGAP⁺16, LK19, PCG17, SOF15, SGH15a, SGH16, SRH15, VDC⁺17, YBC⁺14, YK14, YND14, ZZN⁺16, ZZH16].
Algorithms [BvWM18, BY15, CMG⁺17, CRH⁺14, EIPB⁺19, FdDARF16, HZF18, KBT19, LFdDG14, MHGD15, SG14, SGH17a, SMVW14, TR14a, ZP15, ZN14].
Aliasing [AR16, RKN14, WSFS19].
Aligned [ZB14].
Aligned-Parallel-Corpora [ZB14].
Aligning [BCA15]. **Alignment** [BHAMR19, CWJ16, DHD⁺19, HS15, NNS16, TS16, WED16]. **All-Pole** [SKH⁺15a]. **Allocation** [RV14]. **Allpass** [VM15]. **Also** [WTQ⁺19]. **Alternating** [BH18, ES16, WRKG17]. **Alternative** [HWW16, MHD⁺17]. **AM** [VS14]. **Ambient** [HTG14, HGT15a, HGT15b]. **Ambiguity** [SSS18]. **Ambisonic** [CM18]. **Amen** [DM16]. **Amplitude** [DAR16, FWF17, KTJ19, KBG16b, MAT15, MAK15, XWWW18]. **Analog** [YLD15].
Analysis [ATS18, ARSA14, AM16, AZGN14, BDV⁺14, BSB14, CZG⁺15, CH15, CPL14, DV14a, DST⁺19, DMP⁺18, Hac14, HMDG15, HDG16, HH14, HZF18, HM14, IY16, IO17, IO19, JMD⁺17, KOS⁺16, KD18, LHD16, MMT⁺19, MHGD15, MT18, MAL18, MDM15, MGT15, OWA15, PDS⁺16, PCB15, PM19, RG17, RVB⁺17, SAP14, SGH17b, SB18, VM15, WLLZ17, WCY19, WC16a, YEY17, YWLZ18, ZA14, ZDLK18, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57]. **Analytic** [VS14, WAS16]. **Analyzed** [YHO⁺17].
Analyzing [ARW⁺16, ZH19]. **ANC** [GLQ16]. **Anechoic** [ZWW15]. **Angle** [PCB14]. **Animations** [CWCP17].
Anisotropic [TOKS14]. **Annotation** [MHBT15]. **Annotations** [LCZ⁺17, ZWCT15]. **Anomalous** [KSU⁺19]. **ANSI** [YLJ16]. **Answer** [TWZ⁺18]. **Answering** [LWJ19, ZXH⁺16].
Anthropometric [GMFG16]. **Anti** [WDD⁺16]. **Anti-Spoofing** [WDD⁺16].
APA [ZYG⁺14]. **Aperiodic** [CT14].
Application [CHC⁺14, GKC16, LLR⁺16, MAL18, OOK17, PDS⁺16, PM19, RKL14, SAB16, SHD14, SMVW14, TR14a, WZS14, ZCDS15, ZZH16].
Applications [CD17, CC15, CTLL17, CL18a, FPTJ17, RG17, SSFP18, SRH15, SP15]. **Applied** [AS17b, Ano17a, BSER17, Bre15, DM16, SB18, YHO⁺18]. **Approach** [ABA17, APH14, AY15, AKN⁺16, BC17, BC18, BCA15, BvWWM17, BM15, CPCBFSF16, CH18, CH16, CZ17, CZY⁺18, CK19, DTDL16, FGQ⁺15, GMFG16, JT15, LGTG18, LS14a, LD16, LSDM19, LW19, MH16, MSD14, OR16b, SD16a, TLW⁺17, TMH⁺14, WHRC16, WDDL17, WDDL18, XWZ16, XYH14, XDDL15, ZA14, ZAZ⁺18, ZHB⁺18, ZJD⁺15, ZSIA16]. **Approaches** [BD16, FK19, FLMS16, RH18, RHvdP⁺16]. **Approximate** [SOF15]. **Approximation**

[CY15, FK19, HCJT15, KHHJ19a, MBM15, SMVW14, VDC⁺17]. **Approximations** [WAS14]. **Arabic** [AAA19, RARR15, ZB14]. **Arbitrary** [KSHH18, NNS16, OIY⁺14]. **Architecture** [CRVB⁺15, RARR15, YLD15, YLJ16]. **Architectures** [SMA⁺17, WDDL18]. **Areas** [SAP14]. **Argument** [LZ16, ZZZ16]. **Arousal** [WYLZ16]. **Arpeggios** [BTBT18]. **Array** [BBJ18, FSA18, GEC15, HSK17, HL14, IO17, JSR16, JEP14, LWZ⁺14, NR14a, NHK16, OFF⁺17, OISO14, PCB15, PC19, SR14, SvWRK15, SPM17a, SPM17b, TP15, TCY15, TR14b, TR15, WC16a]. **Arrays** [AR16, BBAS19, BCB18, BABC19, CM18, CT14, FFSS18, Hac14, HF15, HBC17, HZF17, HCB18, MXNB19, PCB16a, PCBs19, SSTS18, SLC⁺15, SKDN14, TH14, TH16, TJC16, TC19, WD16, WCCB19, WRKG17, ZA14, ZBC14]. **Arrival** [ED18, HMN17, KK14, NV14, SLC⁺15, TP15, TTH14, TR15]. **Arrivals** [KB14]. **Art** [MSRND14]. **Article** [Ano19a, Ano14-90, Ano14-91]. **Articulation** [DB17]. **Articulatory** [CHWL14, CMG⁺17, GHAP17, GCG⁺17, HGAPB15, JJB16, KCMW17, NRČR14, SLH17, TKT17, WSY14, YMM19, YLLC19]. **Artificial** [AF18, AF19]. **Artificially** [AKG⁺17]. **Ascending** [BTBT18]. **Ascending/Descending** [BTBT18]. **Asking** [KG19]. **Aspect** [CZG⁺15, LLL⁺19, YJX19]. **Aspect-Based** [CZG⁺15]. **Aspects** [FBE19]. **Aspiratory** [CWCP17]. **ASR** [DAGS⁺18, GWG⁺14, HSPK18, HIA⁺17, LAK16, LLLL19, SV18, TVJ15, WSY14, dICSVAGAPM15]. **Assessment** [FBE19, KKK15, KNH⁺18, LLLL19]. **Assignment** [DCZ19]. **Assisted** [WsL15]. **Association** [AM18a, DCZ19, SSS18]. **Associative** [OOK17]. **Asymmetric** [AHH⁺19, BCB18]. **Asynchronous** [CBA⁺15]. **Atomic** [WSM19]. **Attack** [MKMDM17, YDZ19]. **Attacks** [XNG⁺14]. **Attention** [DLY⁺19, GQXZ19, JHLK18, MYT⁺19, XLL⁺19, ZZZ19]. **Attention-Based** [XLL⁺19]. **Attentional** [SZX⁺18]. **Attentive** [LWL⁺19]. **Attractor** [LCM18]. **Attribute** [LWCL19]. **Attributes** [BHS⁺16]. **Audible** [McL14]. **Audio** [AZK15, AKB⁺16, AM16, Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48, Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-44, Ano15-54, Ano15-45, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano15-59, Ano16k, Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37, Ano16-41, Ano16i, Ano16j, Ano17-59, Ano17-60, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t]. **Audio** [Ano17u, Ano17v, Ano17w, Ano17x, Ano17y, Ano17-57, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano19a, Ano19c, Ano19t, AB14, AB15, BF18, BV16, BCA15, Bay15, BS14, Bre15, CHJ14, CHL⁺19, CWJ16, DHSG15, DTC15, DVLH17, DSH18, DDNN19, EDO17, FSO17, FM15, FLB16, FBE19, GEC15, GRSP17, HTG14, HGT15a, HGT15b, HWRC15, HGT15c, IBN⁺18, JVR16, JYB⁺15, KA16, KSH17, KML18, KBGAP⁺16, KGG19, LG19, LM17, LBR16, LBR18, LB16, LDZ19, MBD18, MV19, MMT⁺19, MPM19, MCMF18, MP16, MSRND14, MF17, MT18, MMMDL⁺14, MBTB14, MK16, NNS16,

NR14b, NXH⁺17, NCC15, NLV16, ODG16, PKA14, PCW15, PHMB18, PHM⁺16, PHM⁺17, RG15a, Rak17, ROL⁺15, SW16, SLOVB15, SB18, SKH⁺15a]. **Audio** [SKH⁺15b, SKM19, TZZ⁺15a, VML14, Wid18, Wid19, WL19, XNG⁺14, XNRG15, XNP⁺18, XO16, XHW⁺17, ZCQ⁺19, vHK14]. **Audio-Based** [ROL⁺15]. **Audio-to-Score** [NNS16]. **Audio-Visual** [AZK15, DTC15]. **Audiobook** [CBG15]. **Audiovisual** [Abd18, TB18]. **Audition** [TR14b]. **Auditory** [CE15, CHWL14, DSMD15, JZJØ19, KGH⁺16, MAK15, SP16, TMKO17, WWS⁺18, XGKM18]. **Auditory-Inspired** [XGKM18]. **Auditory-Receptive-Field** [WWS⁺18]. **Aug** [FWM⁺14a]. **Augmentation** [CGK15]. **Augmented** [CWDA17, HMN17, LLWJ16, NNC19, RG15b, XWZ16]. **Authors** [Ano14-66, Ano14-67, Ano14-68, Ano14-57, Ano14-58, Ano14-59, Ano14-60, Ano14-61, Ano14-62, Ano14-63, Ano14-64, Ano14-65, Ano15-60, Ano15-61, Ano15-62, Ano15-63, Ano15-64, Ano15-65, Ano15-66, Ano15-67, Ano15-68, Ano15-69, Ano16-44, Ano16-45, Ano16-36, Ano16-37, Ano16-42, Ano16-43, Ano16g, Ano16h, Ano17z, Ano17-27, Ano17-57, Ano17-58, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u]. **Auto** [HBB17, SZVZ16]. **Auto-Regressive** [HBB17]. **Autocorrelation** [AS17b, JFG⁺17, PT14]. **Autoencoder** [BCCZ19, GJ17, KKTH19]. **Autoencoders** [CWBv19, DXZ⁺18, HL18, JMD⁺17, LMC18]. **Autoencoding** [CHL⁺19]. **AutoGuitarTab** [MFG15]. **AutoMashUpper** [DHYG14]. **Automatic** [ACRS14, AZGN14, BVGV15, BHS⁺16, BD16, CJ15, CLW⁺16, DHYG14, ESVK17, HYI⁺15, HXWS15, KSH17, KKK15, KG16, LKHU14, LDGHU14, LCZ⁺19, LS14b, LK16, MSFK15, MSRND14, MAK15, MKA16, NRČR14, OR16a, RARR15, RWF16, SWW⁺17, SBM⁺19, SSKP16, SBG17, SLW15, WW16, WDS⁺18, WL19, ZH19]. **Automation** [MTS⁺19]. **Autoregressive** [GMH14, LSDM19, MIYO14, NCC15, WTY18]. **Auxiliary** [AA17, KKTH19, ZCY16]. **Averaging** [CW18, WFN⁺18]. **Awards** [Ano19a]. **Aware** [DB18, LWC⁺18, MV19, QTY16, SF18, TWZ⁺18, XSL⁺19, ZXSD17, ZXSL19, ZM17, ZZ19]. **Back** [ACRS14, LH14, Ano14i, Ano14j, Ano14k, Ano14l, Ano14m, Ano14n, Ano14o, Ano14p, Ano14q, Ano14r, Ano14s, Ano14t, Ano15n, Ano15o]. **Back-end** [LH14]. **Back-off** [ACRS14]. **Backend** [GH17]. **Background** [CZ17, RDP14]. **Backward** [LFQL19, ZTWY19]. **Bag** [GPF17]. **Bag-of-Features** [GPF17]. **BaNa** [YBC⁺14]. **Band** [AA17, KKJN17]. **Band-Dependent** [KKJN17]. **Bandwidth** [AKG⁺17, AF18, AF19, GDC19, LAGD18, LB16, Ziv15, ZPP15]. **Bandwidth-Extended** [AKG⁺17]. **Bank** [AM16, MAK15, SGM⁺15, WW15, YLJ16]. **Base** [FWF17, GJB15, LWJ19]. **Based** [AZK15, Abd18, AF19, AGW15, AJLW14, ADGE19, BWH18, BVGV15, BV17, BIK⁺18, BA19, BCA15, Bay15, BGQO⁺17, BHAMR19, BvWWM17, BH19, BM15, BSL15, BSL16, BH18, BD16, CSJD16, CDLL19, CW18, CZG⁺15, CWW14, CHWL14, CJ15, CH15, CZY⁺18, CWJ16, CMG⁺17, CY15, CC14b, CC15, CPSFC⁺14, CSAR⁺14, CG16, CL17b, DvWDM14, DKO⁺18, DW17, DMVP16, DTN⁺14, DRK18, DG15, DSH18, DDNN19, FSO17, FM15, FWM⁺14a, FWM⁺14b, FLMS16, FNM⁺19, FLB16, FdDARF16, GDC19, GY14, GTV19, GG18, GR14, GCJ⁺14, HSPK18, HW14, HSM19, HSK17, HTG14, HGT15b, HBF⁺16, HBB17, HS15, HIA⁺17, HGT15c, HZF17, HHMK18, IYY16, ISZA15,

IBN⁺18, JP14, JFG⁺17, JT14, JvWGD15, KGP14, KLK17, KNBC19, KHK17, KDY14, KPH15, KK14, KKGK18, KD16, KD18, KNH⁺18, KSU⁺19, KMG15, KGH⁺16, KBG16b, KGG19, LGTG16]. **Based** [LGTG18, LC16a, LTWT17, LK19, LGHG17, LGGH18, LCSL19, LGGH19a, LCZ⁺19, LMC18, Lin19, LB16, LK16, LWCL19, LSYN19, MIYO14, MBD18, MK15a, MHD15, May18, MC17, MTBB15, MBD⁺15, MTS⁺19, MK16, NYS17, NXH⁺17, NLL⁺18, NNL15, NV14, NAK⁺17, OHN16, OOK17, OIY⁺14, OD17, ODG16, ODSM16, PS19, PBC18, PW19, PLZL17, PCB16b, PT14, PM15, PZP19, PHM⁺17, PBQ15, QDSL19, QTY16, RV14, RDP14, RSR⁺19, RH18, RG18, RMBK14, ROL⁺15, SV17, SSFP18, SS16, SAC17, SDK17, STT⁺19, SDDCC15, SNTD19, SWH⁺17, SHKB17, SGH17a, SKSD14, SMVW14, SK16b, SAS17, SLC⁺15, SBM⁺19, SLK17, SSK17, SW16, SKDN14, SSS18, TOKS14, TOS14, TM14, TM16, TQY16, TMM18, TH18, TTH14, TLW⁺17, TKT17, TDL19, UKS19, VML14, WFN⁺18, WS14, WYH⁺15, WYLZ16, WD16, WLL⁺16, WDDL17, WYH17, WB18]. **Based** [WC18a, WW19, WCY19, WZW19, WSM19, WVCL14, WHLG14, WLL15b, WK16, WRKG17, XNG⁺14, XNRG15, XWWW18, XLL⁺19, XZW15, XDDL15, XO16, XHW⁺17, XAHJ⁺14, YK14, YZL⁺18, YLPL19, YLY15, YHO⁺17, YHO⁺18, YH17, YMM19, YJX19, ZP15, ZCF14, ZSB17, ZWCT15, ZKA15, ZW16a, ZW17, ZH18, ZCHH18, ZHH18, ZKH18, ZGO19, ZZ19, ZH15, ZJD⁺15, ZCQ⁺19, ZB14, ZSIA16, Ano16-50, Ano16-51, TMH⁺14]. **Basis** [KHTL18, PSL17, VDC⁺17]. **Bass** [AS17a, MGT15]. **Bayes** [CY15]. **Bayesian** [AV16, BIK⁺18, CH18, CS19, CY16, Chi18b, ET18, HAGSZ16, IBN⁺18, LG19, LHD16, MIYO14, OISO14, OIY⁺14, SEM⁺14, VMOL16, WAS14, WSH15, YSCZ15, ZDC14]. **Beamformed** [LWZ⁺14]. **Beamformer** [AVM19, ABKP19, HDG16, HIA⁺17, JTHN14, JSR16, KSHH18, LYN14, PCB14, SNTD19, SGH17c, ZH14, ZCHH18, ZEM18]. **Beamformer-Based** [SNTD19]. **Beamformers** [BC17, BC18, BCB15, DMVP16, HMDG15, Non14]. **Beamforming** [AR16, ATP15, BCB15, BABC19, CBC19, CT14, HL14, HCB18, JSR16, KHHJ19a, MGK17, PCB15, PCB16a, SDF18, SR14, SBM⁺19, WCCB19]. **Beampatterns** [HBC17, PCBS19]. **Beat** [ZDG14]. **Belief** [SHD14, WWS⁺18]. **Bernoulli** [Lin19]. **Better** [AAA19]. **Between** [AJB⁺18, BTBT18, KTJ19, MVH16, YLLC19]. **Beyond** [sLGyLaC15, WTQ⁺19]. **BFGAN** [LFQL19]. **Bias** [FPTJ18]. **Bias-Compensated** [FPTJ18]. **Bidirectional** [CH16, DAGS⁺18, LLL⁺19]. **Bilingual** [BCCZ19, LFU⁺17, WZL⁺15, YsL15]. **Binary** [ATS18, DAFS15, DVLH17, HL18, RBBG15, WWS⁺18, YK17]. **Binaural** [AJLW14, AHH⁺19, AdHTJ16, ABKP19, BOL⁺18, DHSG15, FBE19, HMDG15, HDG16, IC19, JSR16, JWLF14, KNBC19, KHHJ19a, MMB17, MGB18, MHD15, MHGD15, MD18, May18, PLZL17, RJW19, SR14, SvWRK15, SKM17, SBVM16, TMKO17, VS14, WSM19, YND14, ZW17, ZEM18]. **Binaurally** [YKPMP18]. **Bio** [ARW⁺16]. **Bio-Inspired** [ARW⁺16]. **Biologically** [dICSVAGAPM15]. **Biomimetic** [YLD15]. **Biosignal** [Ano16-50, Ano16-51, SWH⁺17, SHKB17]. **Biosignal-Based** [SWH⁺17, SHKB17, Ano16-50, Ano16-51]. **Bird** [JK19, KMG17, SBG17]. **Bit** [CLAG16, LJK17, SKH⁺15b]. **Bitrate** [BF18]. **Bivariate** [ZDLK18]. **Blank** [Ano14i, Ano14j, Ano14k, Ano14l, Ano14m, Ano14n, Ano14o, Ano14p, Ano14q, Ano14r, Ano14s, Ano14t, Ano14b, Ano14c, Ano14d, Ano14e, Ano14f, Ano14g, Ano14h, Ano15n,

Ano15o, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano19b]. **Blind** [BBM17, BV16, CONVVC18, CG17, CK19, DB19, FK19, HCBY18, ISP19, KOS⁺16, NV14, OOK17, SH14a, SOF15, SH14b, SGH17a, TH17, TH18, WC18b, WW19, WRDP17]. **Block** [BvWWM17, FdDARF16, LG16]. **Block-Based** [FdDARF16]. **Block-Sparse** [LG16]. **Blocking** [WGD15]. **BLSTM** [LCSL19, WL19]. **BLSTM-Based** [LCSL19]. **BLSTM-CRF** [WL19]. **Body** [MSS17]. **Boltzmann** [NTA15, NTM16, NTY19]. **Bone** [SFK15, ZH19]. **Bone-Conduction** [SFK15]. **Boosting** [ZW16a]. **Bootstrap** [CW18]. **Both** [EMTF18]. **Bottleneck** [JMD⁺17, STT⁺19, WK16]. **Bound** [SGH17b, WCY19]. **Boundary** [BHBS16, SSTS18]. **Bounded** [RLPK15]. **BPTT** [CH16]. **Branching** [WTQ⁺19]. **Break** [DM16]. **Bridge** [MSS17]. **Broadband** [BC17, BC18, BCB15, CT14, Non14, RMBK14]. **Broadcast** [CLC⁺15, DHD⁺19, PBQ15, XO16]. **BSS** [CY15, OG14]. **Build** [ARSLN16, PCB16b].

C50 [PSL⁺16]. **Calculation** [MV14]. **Calibration** [FNM⁺19, KH16, TMM18, WCY19]. **can** [Ano15z, Ano15-27]. **Canceler** [YEY17]. **Cancelers** [Emu18]. **Cancellation** [AA17, AR16, BvWWM17, BvWM18, CS19, CSAR⁺14, DST⁺19, DLMM⁺18, FWM⁺14a, FWM⁺14b, GCvWMJ14, MV14, PC19, SNTD19, SK16a, SLGA15, SP15, ZZH16, ZYG⁺14]. **Canceller** [ABvM19, PPSG17]. **Candidate** [CWH⁺16, ZHZ19].

Capabilities [CDA⁺14]. **Capacity** [XNRG15]. **CASA** [BA19, LW19]. **CASA-Based** [BA19]. **Cascaded** [GHAP17, HGAPB15, NR14b]. **Cascading** [sLGyLaC15]. **Case** [BC17, GSA18, WC16a]. **Casting** [OR16a]. **Categories** [Ano16k, Ano16l]. **Causal** [Wid18, Wid19]. **Cellular** [CZ17]. **Center** [Ano16-48, Ano16-49]. **Centered** [AS17a]. **Cepstral** [DP16, EMTF17, EMTF18, JT15, KHTL18, KS16, SK18]. **Cepstrum** [IO17, YHO⁺18]. **Challenge** [EGMN16, MDE⁺19, MHB⁺18]. **Challenges** [TD16]. **Chance** [BC18]. **Chance-Constrained** [BC18]. **Change** [PCB16b]. **Channel** [AM18b, BXY14, CDLX18, CS19, DST⁺19, DB18, DBN⁺17, DTDL16, GDC19, GRSP17, JvWGD15, KD16, KD17, KG14, LG19, LK19, MHD15, MHGD15, MF17, MK15b, MK15c, MBK17, PSL⁺16, PZP19, SGM⁺15, SLOVB15, SKAK16, TZA14, WFN⁺18, WWD14, WDDL17, WYSD15, XGKM19, YND14, ZTQB19, ZPP15]. **Channels** [YLD15]. **Characteristics** [JG19]. **Characterization** [PHK16]. **Characterizing** [CTSC14]. **Chat** [LSYN19]. **Chat-Based** [LSYN19]. **Chatbots** [LXS⁺18]. **Children** [PLT⁺18]. **Chinese** [Chi18a, LZC⁺14, LZ16, WSY14, XHS⁺18]. **Chord** [CB14, DDZS17, MSRND14, WL19]. **Chunk** [CH16]. **CI** [SF14]. **Circular** [BCB18, HF15, HBC17, HCB18, OFF⁺17, WAS16, ZA14]. **Clarification** [KG19]. **Clarity** [LCC⁺15]. **Class** [CSJD16, CJ15]. **Class-Based** [CSJD16]. **Class-Normalized** [CJ15]. **Classes** [LWZZ16]. **Classification** [ATS18, BSER17, BMVG17, CWW14, CHJ14, DTL15, GPF17, HS15, JWLF14, LWL⁺19, LJX⁺16, LLWJ16, MYT⁺19, MCMF18, MZX⁺15, MHB⁺18, OHN16, OGZ18, PKA14, PMMM15, PHM⁺17, RG15a, Rak17, SK17, SHAGPRZ17, STBC17, SLY14, TQW⁺15, WAS14, WYH17,

XLL⁺19, YK17, ZW19, ZM17, VZC14].
Classification-Based [CWW14, WYH17].
Classifier [KKTH19, SMA⁺17]. **Classifiers** [PCB16b]. **Clean** [MC17]. **Clear** [NHK16].
Cleft [VAP19]. **CLOpinionMiner** [ZWX15]. **Closed** [ARSA14]. **Closure** [DP16, KDY14, KKGH16, MG18].
Closure/Opening [KKGH16]. **Cluster** [TQY16]. **Clustering** [AB14, AB15, DSH18, HPB15, KHTL18, KSK⁺15, LDZ19, ODG16, SKDN14, WLL⁺15a, XYH14, XO16, YLPL19, YH17, ZJD⁺15].
Clustering-Based [ODG16, SKDN14].
CNN [PW19, ZQZH19]. **CNN-Based** [PW19]. **Co** [CBCL15, DHSG15, HL15, SLC⁺15, YJX19].
Co-Extraction [YJX19].
Co-Factorization [HL15].
Co-Localization [DHSG15].
Co-occurrence [CBCL15]. **Co-Prime** [SLC⁺15]. **Cochannel** [ZWW15]. **Cochlear** [CFMM14, NWM16, SF14, SMVW14, YLD15]. **Cochleograms** [dICSVAGAPM15].
Code [AVK⁺15, HLL15, WLLZ17, WSY14, WSH15, YsL15]. **Code-Mixed** [HLL15].
Code-Switched [YsL15]. **Code-Switching** [AVK⁺15, WLLZ17, WSY14, WSH15].
Codebook [HBB17, VML14, WSM19].
Codebook-Based [HBB17, VML14, WSM19]. **Coded** [ZLF19].
Coder [SKH⁺15a, SKH⁺15b]. **Codes** [XAHJ⁺14]. **Coding** [AHH⁺19, BF18, CLAG16, CDW16, JSYW16, JG19, MK16, SKH⁺15a, SKM19].
Coefficients [AS17b, DP16, GI15, ISZA15, KS16, KBG16b, MKA⁺14]. **Coherence** [BBM17, MHD15, MD18, RJW19, SGH16, XZW15]. **Coherent** [JC17, SK15].
Coherent-to-Diffuse [SK15].
Collaborative [TLWV17]. **Collabratec** [Ano16-46, Ano16-47, Ano17-61, Ano17-62, Ano17-63, Ano17-64, Ano17-65, Ano17-66, Ano18-64, Ano18-65]. **Collecting** [KNH⁺17].
Colored [SK18]. **Colouration** [WWH⁺18].
Comb [RJW19]. **Combination** [CPCBFSF16, CJ15, FdDARF16, IY16].
Combined [BCB15, MGGK17, MHGD15].
Combining [CMY16, KSK⁺15, LCC⁺15, MGB18, RDP14, SKM17, SY15, WJ15a, WW19, YK17]. **Command** [PCG17].
Comments [CE14]. **Common** [PP19, SD16b, SD16a]. **Communication** [Ano16-50, Ano16-51, KBV17, MHD⁺17, SWH⁺17, SHKB17]. **Community** [WYLZ16, ZXH⁺16]. **Community-Based** [WYLZ16]. **Compact** [MBD⁺15, SRH15, WDDL18].
Companding [Ziv15]. **Comparative** [DST⁺19]. **Comparing** [Abd18].
Comparison [AJB⁺18, BKS⁺18, KBV16, WDD⁺16, vHK14]. **Compensated** [FPTJ18]. **Compensation** [BGQO⁺17, DH14, HSK17, LC16b, MGF18, MJJ⁺14, Nos16, TZA14, WVCL14].
Complete [CE14]. **Completely** [HSM19].
Complex [Emu18, HLL15, HIA⁺17, HHC16, KBG16b, LK19, MV19, MF18, NTY19, WWW16, WW17]. **Complex-Valued** [Emu18, HHC16, LK19, NTY19].
Complexity [CBA⁺15, DDZS17, FWM⁺14a, FWM⁺14b, FMD14, HL14, NWM16, SDF18, SLC⁺15, SLW15, VH19, WW15]. **Component** [CWYC17, IY16]. **Components** [CB14].
Composition [CLAG16, MFG15].
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Eigenvoices [SDK17]. **ELD** [CRH⁺14].

Electroglottographic [BMVG17].

Electrolaryngeal [XWWW19].

Electrolarynx [XWWW18].

Electromyographic [JD17]. **Electronics**

[Ano16u, Ano16v]. **Element**

[AG17, ADGE19]. **Elements** [JK19].

Elicitation [LSYN19]. **Elimination**

[NCC15]. **Elitist** [HHMK18]. **Embedded** [DvWDM14].

Embedded-Optimization-Based

[DvWDM14]. **Embedding**

[PDS⁺16, WHQY19, XNRG15, XNP⁺18].

Embeddings [KJG16, LCZ⁺19, PHM⁺17, YM17, YWLZ18, ZKH18, eUY⁺18].

Embracing [Li15]. **EMD** [ZCF14]. **EMG** [JD17]. **EMG-to-Speech** [JD17]. **Emotion** [AB18, CWYC17, DXZ⁺18, GFG⁺14, LB19, LSYN19, PCB16b, TD16, WCC⁺15, WLLZ17, WC16b, XLL⁺19, XDC⁺17, YHC19, ZCDS15]. **Emotion-Semantic-Enhanced** [YHC19]. **Emotional** [LCTA19]. **Emphasis** [DTN⁺17, DSN18]. **Empirical** [ARSLN16, CSJD16, ZKA15]. **Encoder** [MPHM19, RCL18, SZVZ16, ZXSD17]. **Encoding** [JYB⁺15, Lin19]. **End** [DQY18, FWT⁺18, HCJT15, KLK17, NW14, PC19, SBD16, ZTWY19, LH14]. **End-to-End** [DQY18, FWT⁺18, KLK17, SBD16, ZTWY19]. **Ending** [ZHZ19]. **Endings** [ZHZ19]. **Energies** [CSS⁺19]. **Energy** [CASZ17, ISZA15, SAC17, SH17b, ZSIA16]. **Engineering** [DM16, QCDW17]. **English** [CTSC14, WSY14]. **Enhance** [ZLF19]. **Enhanced** [GWG⁺14, HC19, NR14b, PK15, YHC19, ZZZ16]. **Enhancement** [AVM19, BVGV15, BIK⁺18, BA19, CDLL19, CH15, DP16, DBK15, DB18, DTN⁺14, DBN⁺17, EMTF18, FWT⁺18, GVMGO17, GTV19, HBB17, ISZA15, JVR16, JRA17, KGP14, KNBC19, KHK17, KK14, KNH⁺18, KTJ19, KMG17, KBG16a, KBG18, KG14, KDJJ16, KDJJ17, LG19, LK19, LGGH19b, LSH14, MWT16, MPAEBLB15, MC17, MK15b, MK15c, MBK17, NJC16a, PS19, PW19, PZP19, QDSL19, RG18, SBN⁺19, SBM⁺19, SM18, SLGZ15, SZVZ16, SK18, TOS14, TM14, TCW19, TJCB16, TP19, TWSS16, TDL19, TE16, VBY18, WFN⁺18, WLL⁺16, WB18, WDDL18, WRDP17, WSM19, WZS14, XDDL15, XMBN18, ZCF14, ZH14, ZWW19, ZZ19]. **Enhancer** [TM16]. **Enhancing** [EZS14, HHC16]. **Enjoyable** [MSFK15]. **Enrollment** [LH14]. **Ensemble** [AZGN14, LB16, SV18, TMH⁺14, ZW16b]. **Ensembling** [WDDL18]. **Entity** [HSZ⁺18, XHS⁺18]. **Entropy** [MK16, NAK⁺17, SV18, WLL15b]. **Entropy-Based** [WLL15b]. **Envelope** [AF18, DSMD15, DAR16, EMTF18]. **Envelopes** [AY17]. **Environment** [FSA18, FNA15, TMH⁺14, WRK18]. **Environmental** [SK17, SSKP16, TMKO17, XHW⁺17, YND14]. **Environments** [DBK15, DPHG18, FSO17, FZZ⁺15, LSH14, MMB17, MGGK17, SGH17a, SK16b, SWCN19, VMOL16, ZW17]. **Epoch** [VP17, VAP19]. **Epoch-Synchronous** [VAP19]. **Equalization** [FdDARF16, KD16, KD17, LGGH18, PMB⁺19, PAB19, RKL14]. **Equalizer** [LC16b, RVB14, VR19]. **Era** [Ano19t]. **Ergodic** [TP16]. **Erratum** [Ano19c]. **Error** [CDLL19, GCJ⁺14, GCvWMJ14, JT15, KTJ19, OHN16, TNS⁺18, WsL15, WK16, WTQ⁺19]. **Errors** [AAA19, CH18, NNS16, Non14]. **ESPRIT** [HZF18, WAJL15]. **ESPRIT-Type** [HZF18]. **Estimate** [Emu18]. **Estimated** [AVM19]. **Estimates** [APH14, AM18a, JTHN14, KGH⁺16, TTH14]. **Estimating** [HHMK18, KGP14, OHN16, SAC17, SBV17, SCEH19]. **Estimation** [AF18, AM18a, AB15, BBM17, CH18, CH15, CASZ17, CS19, CL14a, CL17a, DAR16, EGMN16, EMTF17, EMTF18, ESJ17, FSA18, FWM⁺14a, FWM⁺14b, GTS⁺19, GKC16, GB14, HMN17, HAGSZ16, HJC19, HTG14, HGT15a, HZF17, IY16, JP14, JFG⁺17, JCBJ15, JT15, JBTL15, KAJC16, KK19a, KK14, KD18, KKGH16, KHHJ19b, KBG16b, KDJJ16, KDJJ17, Lin19, LFU⁺17, MPAEBLB15, MKA⁺14, MD18, MSRND14, MAT15, MXNB19, MK15b, MK15c, NJC16a, NJC16b, PS17, PT14, PZP19, PCLP14, RKN14, RG17, SM14, SD16b, SD16a, SH14b, SGH16, SK15, SLC⁺15, SFK15, SM18, SY15, SKH⁺15a, SLGZ15, SZVZ16, SLJ18, TH17, TP15, Ter16, TP19, TG16, TR15, TVJ15, TMH⁺14, TE16, WGD15, WD16, WYH17, WXZ⁺19, WAJL15, WRK18, XGKM18,

XGKM19, XLLY18, ZG16, ZZN⁺16, ZHH19]. **Estimator** [PSL⁺16]. **Estimators** [BKS⁺18, SH14b, SGH17b]. **Estonian** [ESVK17]. **Evaluated** [PM15]. **Evaluating** [BDL15]. **Evaluation** [BBC⁺16, BvWM18, BKS⁺18, Bre15, CLW⁺16, CMG⁺17, FWT⁺18, GTV19, JSR16, JEP14, LCZ⁺19, NRČR14, SMB18, TL19, VKH18, YLD15]. **Event** [BLLP17, FZZ⁺15, GPF17, HWT⁺17, JP14, KXS⁺19, LLR⁺16, LZ16, MDCF18, MSB18, MZX⁺15, MDE⁺19, PMMM15, RVB⁺17, SGA15, WWS⁺18, WSH15, rPH⁺17, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57]. **Event-Based** [JP14]. **Events** [CPSFC⁺14, MHB⁺18, PHM⁺16, SMA⁺17]. **Evolution** [LB16, MTS⁺19, SWZ16, WLL15b]. **Evolution-Strategy-Based** [MTS⁺19]. **Evolutionary** [HHMK18]. **Example** [MAP14, RAB18]. **Excitation** [EMTF17, EMTF18, JBTA19, SSK17]. **Exemplar** [BVG15, BV17, KGP14, TLW⁺17, WWD14, WVCL14, YGV14]. **Exemplar-Based** [BVG15, BV17, KGP14, TLW⁺17, WVCL14]. **Exemplars** [YGS19]. **Expanding** [DRFO14]. **Expansion** [CWH⁺16, GDC19, LPHCB14, yLsL14]. **Expectation** [DG15, DPHG18, LSH14, SGH16]. **Expectation-Maximization** [DG15, DPHG18, LSH14, SGH16]. **Explicit** [DV14b, FB18, SRH15, vMM14]. **Exploiting** [CLW⁺19, DDNN19, FL19, MMB17, ODSM16, PSL17, SWZ16, WWLL14]. **Exploits** [May18]. **Exploring** [TZZ15b, XGKM18]. **Exponential** [CPCBFSF16, FOBP15, HOF15]. **Expression** [CBG15]. **Expressive** [MSFK15, QDSL19]. **Expressiveness** [CBG15]. **Extended** [AKG⁺17, NAK⁺17]. **Extending** [ABvM19, GHAP17]. **Extensible** [ES16]. **Extension** [AF18, AF19, LAGD18, LB16, ZPP15]. **External** [ABvM19, YKPMP18]. **Extra** [WED17]. **Extracted** [WSY14]. **Extracting** [HL18]. **Extraction** [AV16, AY17, CWJ15, CL14a, GMH14, HPB15, HTG14, HGT15a, HGT15b, LZ16, LLL⁺19, MAB⁺16, MAK15, RMBK14, SAB16, TH14, TH17, VP17, YDZ19, YJX19, ZCYZ18, ZW19, ZWX15]. **Extractive** [CLC⁺15, CLCW18, LCC⁺15, YW14]. **Extractor** [ZSB17]. **F** [LK19]. **F0** [AB15, CWJ15, IY16, KK19a, LCTA19, WTY18]. **F1** [HXWS15]. **F1-Score** [HXWS15]. **Facial** [JD17]. **Factor** [BDV⁺14, CC15, HH14, MAL18, QTY16, WLLZ17, YHO⁺17]. **Factored** [AVK⁺15]. **Factorization** [ATA16, BV16, BOL⁺18, BSER17, CONVVC18, CBG15, CY16, ED18, FSO17, HL15, KHTL18, KSK⁺15, KOS⁺16, LKPR18, MH16, ZXH⁺16]. **Factorized** [CL14a, SS16]. **Factors** [KKJN17, SKAK16, WWLL14, WC16a, ZYG⁺14]. **Fail** [FNM⁺19]. **Fail-Safe** [FNM⁺19]. **Family** [HBLC14, TR14a]. **Far** [ATP15, ZSIA16]. **Far-field** [ATP15]. **Farewell** [Ano18-32, Den14]. **Fast** [BF18, CRH⁺14, CL14a, Cum15, DAFS15, KKGH16, KBT19, ODG16, XAHJ⁺14]. **Fate** [PP19]. **FDAF** [GCvWMJ14]. **FDTD** [HB17, SRH15, vMM14]. **Feature** [AV16, BY15, BSER17, CWW14, CHJ14, CZZ15, DH14, GMH14, HC19, IO17, KGP14, KKGK18, KNH⁺17, LWZ⁺14, MAK15, NXCL16, QCDW17, SAB16, SKDN14, VML14, WLT⁺18, WL19, XHW⁺17, ZDG14, ZW19]. **Features** [AVK⁺15, BMVG17, CSJD16, CHWL14, CTLL17, DHSG15, DW17, DB15, FOBP15, GKC16, GMFG16, GPF17, HLL15, HL18, JMD⁺17, JT15, LGHG17, LLLL19, LCTA19, PKA14, STT⁺19, SGA15, SMA⁺17, SAS17, SKK14, SKM17, TD16, TZZ15b, VAH19, VAP19, WYH17, WW19, WSY14, WK16, XGKM18, YK17, YB14, dICSVAGAPM15, VZC14].

Feedback

[AA17, BRD15, BE17, BvWWM17, BvWWM18, FWM^{+14a}, FWM^{+14b}, PPSG17, SD16b, SD16a, SNTD19, SH17a, SLGA15, SP15, TNS⁺¹⁸, XYH14]. **Feedback-Driven** [BE17]. **Feedforward**

[BSB14, CC14a, SNS15]. **Few** [ED18].

Fibonacci [FM15]. **Field**

[ATP16, ADM⁺¹⁷, BGQO⁺¹⁷, EJ16, FFSS17, FFSS18, KMM⁺¹⁸, KBV16, KBV17, KFH⁺¹⁴, MAB⁺¹⁶, MF18, UKS19, VAH19, WWS⁺¹⁸, WAS16, WWH⁺¹⁸, WSFS19, ZA14, ZHB⁺¹⁸, ZSIA16, ATP15].

Fields [CE15, NYD17, YLL15]. **Filling**

[MDY⁺¹⁵]. **Filter** [AM16, BvWWM17, DV14a, DV14b, FZZ⁺¹⁵, FB18, FB19, GCvWMJ14, HAGSZ16, HHMK18, KKJN17, KMG17, Lin19, May18, MAK15, MKA16, MJJ⁺¹⁴, MG18, RJW19, SGM⁺¹⁵, SD16b, SH19, SGH15a, SMVW14, SRH15, TTH14, TCY15, TE16, VP17, WW15, WRKG17, YLJ16, ZCY16, ZCYZ18, ZDLK18].

Filter-Bank [SGM⁺¹⁵]. **Filterbank**

[CFMM14, SP16, SGA15, YLD15].

Filterbanks [CRH⁺¹⁴]. **Filtered**

[CC14a, FdDARF16, dICSVAGAPM15].

Filtered-x [FdDARF16, CC14a]. **Filtering**

[ARSA14, ABA17, AY15, CH18, CD17, CMG⁺¹⁷, DMVP16, DB18, DB19, ET18, GMH14, GJ17, JCBJ15, KFH⁺¹⁴, LGGH19a, LG16, MHD15, MHGD15, NCC15, OOK17, MG19, RG15b, SR16a, TH14, TH16, XMBN18, ZHH18, ZH15].

Filtering-Based [MHD15]. **Filters**

[AM18b, BGQO⁺¹⁷, BH18, CCR16, DRK18, FNA15, GEC15, Hel14, HBLC14, JBC16, KHCW15, MV14, SSTS18, Wid18, Wid19, ZG16]. **Finding** [HLL15, ZHZ19]. **Fine** [YM17]. **Fingerprint** [XO16].

Fingerprinting [HWRC15, ODG16, SW16].

Finite [AG17, ADGE19, BHBS16, BS14, SvWRK15, ZH15]. **Finnish** [ESVK17].

First [BBAS19, BBJ18, CASZ17, TC19, WC16a, Ano15z, Ano15-27]. **First-** [TC19].

First-Order

[BBAS19, BBJ18, CASZ17, WC16a]. **Fisher**

[ATP15]. **Fixed** [FB18]. **Fixed-Point**

[FB18]. **Flamenco** [KG16]. **Flat** [HSPK18].

Flat-Start [HSPK18]. **Flesh** [KCMW17].

Flesh-Point [KCMW17]. **Flexible**

[ARW⁺¹⁶, KBG16a]. **Flow** [GI15, WC16b].

Fluency [BDL15]. **Fly** [EDO17]. **FM**

[VS14]. **FMLLR** [JKU18, JKU18].

Following [LD16]. **Footprint** [LR17].

Foreground [DP16]. **Foreign**

[BHS⁺¹⁶, MK15a]. **Forests** [PMMM15].

Forgetting [CC15]. **Formalism** [KDY14].

Formant

[FWM^{+14a}, FWM^{+14b}, JFG⁺¹⁷, YLY15].

Formant-Based [YLY15]. **Formulation**

[Bay15]. **Forward** [LFQL19, ZTWY19].

Fourier [VH19]. **Fractional**

[BGQO⁺¹⁷, Hel14]. **Fractional-Order**

[Hel14]. **Fragment** [HLL15]. **Frame**

[CHWL14, DAR16, YsL15, ZGO19].

Frame-Level [YsL15]. **Frames** [OD17].

Framework [BDL15, CE15, CLCW18,

Chi18a, DDZL19, EDO17, ES16,

GCvWMJ14, GHAP17, GJB15, JKU18,

KMM⁺¹⁸, KBG16a, LJX⁺¹⁶, LSH14, MV14,

NNC19, PW19, QMS16, QWL⁺¹⁹, RARR15,

SM18, TQW⁺¹⁵, TJCB16, TR14b, WW16,

WLL15b, XDC⁺¹⁷, YsL15]. **Free**

[DV14b, FB18, FB19, HSM19, SSFP18].

Frequencies [AHSS⁺¹⁸, AY17, HJC19].

Frequency [AM16, AY15, AY17, BP14,

BvWWM17, BCB18, BABC19, DSH18,

GCvWMJ14, HSK17, HCBY18, HBC17,

HCB18, JP14, JFG⁺¹⁷, JCBJ15, JT15,

KYI⁺¹⁵, KXS⁺¹⁹, KGH⁺¹⁶, KBG16a,

LM19, MAP14, MGF18, MCD14, NJC16b,

OG14, RBR16, RG15a, RKL14, SKH^{+15a},

SKM19, SLJ18, TM16, TLW⁺¹⁷, TZZ^{+15a},

WCC⁺¹⁵, WZW19, WW17, YBC⁺¹⁴,

ZKA15, ZG16, ZTQB19, ZSIA16, ZH15].

Frequency-Dependent [DSH18].

Frequency-Domain [BvWWM17, BCB18, GCvWMJ14, HCBY18, SKM19, TM16].

Frequency-Invariant

[BABC19, HBC17, HCB18]. **Fricatives** [XWWW19]. **Friendly** [EDO17]. **Front** [Ano14u, Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano16m, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano17-28, Ano17-29, Ano17-30, Ano17-31, Ano17-32, Ano17-33, Ano17-34, Ano17-35, Ano17-36, Ano17-37, Ano18-33, Ano18-34, Ano18-35, Ano18-36, Ano18-37, Ano18-38, Ano18-39, Ano18-40, Ano18-41, Ano18-42, NW14]. **Front-End** [NW14]. **Frozen** [CWDA17]. **Full** [Cum15, GLC⁺14, MC17]. **Full-Sentence** [MC17]. **Fully** [BD16, FWT⁺18]. **Function** [BKK15, HMDG15, ISZA15, KMG15, LGGH18, LGGH19b, MVH16, MD16, MNFGO19, PCB14, PAB19, RF19, SAPB15, SDDCC15, SMH14, ZHH19]. **Functional** [BSL16, CSAR⁺14, ZA14, ZKA15]. **Functions** [BHAMR19, FPTJ17, FPTJ18, FFSS17, GSA18, KD17, MBM15, MAT15, SGH15b, VDC⁺17, ZLLS16]. **Fundamental** [AHSS⁺18, AY17, HJC19, JP14, JCBJ15, KYI⁺15, KBG16a, NJC16b, SLJ18, YBC⁺14, ZG16]. **Fusing** [ZZZ16]. **Fusion** [Abd18, JVR16, PS17, SHAGPRZ17, SPM17a, SPM17b, YMM19, VZC14]. **Future** [CLW⁺19, ZXSL19]. **Future-Aware** [ZXSL19]. **FxLMS** [PCG17].

Gabor [OD17, SGA15]. **Gain**

[AA17, MAT15, Non14]. **Gains** [HBB17].

Game [hShWsL15]. **Gated**

[GAPGG19, TWZ⁺18, TCW19, ZQZH19].

Gating [TB18]. **Gaussian**

[ATP16, BDV⁺14, BSB14, CDLL19, CY15, DDNN19, GY14, GR14, GHAP17, HIA⁺17, HGAPB15, JRA17, KK19b, LGR14, NNL15, RG18, RBBG15, SKH⁺15a, SKM19, TZZ⁺15a, VZC14]. **Gaussian-Impulse**

[TZZ⁺15a]. **Gaussianization**

[Ano19c, MMDL⁺14]. **GCC** [WRDP17].

GCC-NMF [WRDP17]. **Gender**

[WDDL17]. **General** [BHBS16, FFSS18].

Generalized [ABvM19, CDLL19, DV14a, DV14b, DTL15, DST⁺19, JSR16, KPH15, Lin19, MH16, PLZL17, SDDCC15, SR14, SLW15, SKH⁺15a, SKM19, VS14].

Generalized-Gaussian-Distributed

[SKH⁺15a]. **Generalizing** [XLLY18].

Generated [EZS14, WWD14]. **Generating**

[LM17]. **Generation**

[ASC⁺18, BGD⁺18, BTD⁺19, HWW16, HSZ⁺18, JD17, LAGD18, LFQL19, MSFK15, OFF⁺17, RLK14, WC16b, WK16, WTQ⁺19, XSL⁺19, YZW⁺18]. **Generative**

[CLLD14, CRVB⁺15, GBH16, KYI⁺15,

LFQL19, STS18, TL19]. **Generic**

[DDNN19, RRdM16]. **Genre**

[DHD⁺19, PKA14, RV14, ROL⁺15].

Genre-Based [RV14]. **Geometric**

[APH14, WSFS19]. **Geometries**

[DAMvW15]. **Geometry**

[BWH18, WCY19, ZCQ⁺19]. **Gestures**

[HM14]. **Get**

[Ano17-68, Ano17-69, Ano15z, Ano15-27].

Get-A-Member [Ano17-68, Ano17-69].

Global [BSL15, BBJ18, ET18, MYT⁺19,

Nos16, YJX19]. **Global-Local** [MYT⁺19].

GlottNet [JBTA19]. **Glottal** [ARSA14,

ABA17, AJB⁺18, CMG⁺17, DP16, JBTA19,

KDY14, KKGH16, MG18, MG19, SR16a].

GMM [WWD14]. **Golay** [KMG17]. **Gossip**

[ZH14]. **GPU**

[BGQO⁺17, LFdDG14, ODG16, SRH15].

GPU-Based [BGQO⁺17]. **Gradient**

[HF15]. **Gradients** [RG15a]. **Gram**

[MHBT15]. **Grammar** [ZDC14]. **Graph**

[LK16, WYLZ16, WLLZ17, ZWCT15].

Graph-Based [LK16, ZWCT15]. **Graphic**

[RVB14, VR19]. **Graphs** [yLsL14, PHMB18].

Grid [ÇOH18, SLJ18]. **Grounded** [KSL19].

Group [Chi15b, ONKP16, SZL19].

Grouping [LSDM19]. **Growing** [WZL⁺15].

Growth [Li15]. **Guest** [HLL15]. **Guided** [FZZ⁺15, WZW19, ZA14]. **Guitar** [AS17a, MFG15].

HAAQI [KA16]. **Hammerstein** [DvWDM14]. **Handling** [HBF⁺16]. **Handwritten** [GMH17]. **Hankel** [JP14]. **Hard** [ZH19]. **Harmonic** [AKB⁺16, DMVP16, DHP14, ESJ17, EJ16, FNA15, HMN17, JTHN14, JC17, KFH⁺14, LKPR18, MBTB14, MDM15, MK15b, PSL17, PHK16, TOKS14, TOS14, TM16, Ter16, VAH19, WYH17, Ziv15]. **Harmonic-Percussive** [PSL17]. **Harmonic/Percussive** [LKPR18, TOKS14, TOS14]. **Harmonics** [HZF17, HZF18, SAC17, ZKA15, Ziv15]. **Harmonics-Based** [SAC17, ZKA15]. **Head** [BKK15, BHAMR19, GSA18, MMB17, MBM15, MGF18, PAB19, RF19]. **Head-Related** [BKK15, BHAMR19, GSA18, MBM15, PAB19, RF19]. **Headline** [ASC⁺18]. **Headphones** [GdC14, RG15b]. **Hearing** [AHH⁺19, ABKP19, FWM⁺14a, FWM⁺14b, FPTJ17, IC19, KNBC19, KPH15, MHD15, MHGD15, NWM16, NNL15, PPSG17, SSFP18, SGM⁺15, SD16b, SD16a, SNTD19, SP15, TNS⁺18, WW15, YLJ16, YKPMP18, ZEM18, KA16]. **Hearing-Aid** [YLJ16, KA16]. **Height** [KFH⁺14]. **Heterogeneous** [CL18b, LCZ⁺17]. **Hidden** [DBK15, HL18, PCW15, RV17, SS16, SLR16, TP16]. **Hierarchical** [ARW⁺16, Chi15a, Chi18b, ÇOH18, DJY⁺19, JHLK18, LG19, LAGD18, LWCL19, RV14, TWZ⁺18, TP16, WCY15, WWS⁺18]. **Hierarchical-Diving** [WWS⁺18]. **Hierarchies** [FGQ⁺15]. **Hierarchy** [SZX⁺18]. **Hierarchy-to-Sequence** [SZX⁺18]. **High** [AY17, BP14, DTDL16, FNA15, GB14, HB17, KKGH16, MTS⁺19, NR14a, RVB14, RF19, WCY15, WDDL18, WCCB19, XNRG15].

High-Order [HB17, WCY15]. **High-Performance** [MTS⁺19, WDDL18]. **High-Precision** [FNA15, RVB14]. **High-Resolution** [BP14, DTDL16, KKGH16, RF19]. **Higher** [AS17b, SAP14, vMM14]. **Higher-Lag** [AS17b]. **Higher-Order** [vMM14]. **Highlight** [HSZ⁺18]. **Highly** [YsL15]. **Highway** [LR17]. **Hints** [ZH19]. **Histogram** [RG15a]. **Histograms** [MJ18]. **History** [CBCL15]. **HMM** [AZK15, BD16, HSPK18, NYS17, PM15, SDK17, WWD14, YHO⁺17, ZSB17]. **HMM-Based** [BD16, HSPK18, PM15, SDK17, ZSB17]. **HMMs** [SLW15]. **HMRFs** [AB15]. **Hoc** [TJCB16, WC18b]. **Hough** [DTL15]. **Howling** [KPH15]. **HPM** [LCWC16]. **HRIR** [MAL18]. **HRTF** [RHvdP⁺16, ZKA15]. **HRTFs** [GMFG16]. **Human** [BBC⁺16, JZJØ19, WDD⁺16, XDH⁺17]. **Humanoid** [TR14b, TR15]. **Humming** [WJ15a]. **Hurst** [ZCF14]. **Hurst-Based** [ZCF14]. **Hybrid** [LKPR18, LGTG18, XWWW19]. **Hypotheses** [LAK16]. **Hysteresis** [MTBB15].

I-Vector [CL17b, GH17, KMAB18, ZSB17, XLLY18, JKU18]. **I-Vectors** [KWGW17, PS17, LMC18, TMMZ18]. **idea** [Ano15z, Ano15-27]. **Ideal** [LM19]. **Identification** [Ano19c, AB14, EIPB⁺19, HCBY18, HL15, HC19, JSMD18, LGGH18, LG16, MMMDL⁺14, PBC18, PBQ15, ROL⁺15, SH14a, TWC⁺18, VTN15, YsL15, ZH19, ZWW14, ZWW15]. **Identifying** [FDK15, WED17]. **IEEE** [Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48,

Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano14-40, Ano14-41, Ano14-42, Ano14-43, Ano14-44, Ano14-90, Ano14-91, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-44, Ano15-54, Ano15-45, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano15-59, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano15-35, Ano15-36, Ano15-37, Ano15-38, Ano15-39, Ano16k]. **IEEE** [Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37, Ano16-41, Ano16-46, Ano16-47, Ano16-48, Ano16-49, Ano16u, Ano16v, Ano16-27, Ano16-28, Ano16w, Ano16x, Ano16y, Ano16z, Ano17-59, Ano17-60, Ano17-61, Ano17-62, Ano17-63, Ano17-64, Ano17-65, Ano17-66, Ano17-38, Ano17-39, Ano17-40, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, Ano17-52, Ano17-53, Ano17-54, Ano17-55, Ano17-56, Ano17-57, Ano17-58, Ano18-64, Ano18-65, Ano18-43, Ano18-44, Ano18-45, Ano18-46, Ano18-47, Ano18-48, Ano18-49, Ano18-50, Ano18-51, Ano18-52, Ano18-53, Ano18-54, Ano18-55, Ano18-56, Ano18-57, Ano18-58, Ano18-59, Ano18-60, Ano18-61, Ano18-62, Ano18-63, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i]. **IEEE** [Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano16i, Ano16j, Ano16g, Ano16h, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t, Ano17u, Ano17v, Ano17w, Ano17x, Ano17y, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17a, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano19a]. **IEEE/ACM** [Ano17-60]. **IEEE/ACM** [Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48, Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-54, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano16k, Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37, Ano16-41, Ano17-59, Ano16i, Ano16j, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t, Ano17u, Ano17v, Ano17w, Ano17x]. **IEEE/ACM** [Ano17y, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano19a]. **II** [DV14b]. **IIR** [Wid18]. **Illustration** [QDSL19]. **Image** [RJCW17]. **Images** [DHSG15]. **Imaging** [MAST15, MF18]. **Imbalanced** [YsL15]. **Imitation** [ZPD19]. **IMM** [TCY15]. **IMM-Unscented** [TCY15]. **Immersive** [HGT15a, KBV17]. **Impaired** [ACB17]. **Impedance** [BHBS16, SRH15]. **Imperceptibility** [HGT15c]. **Implant** [CFMM14, SF14, YLD15]. **Implants** [SMVW14]. **Implementation** [DV14b, LFdDG14, Nos16, SRH15, ZN14]. **Implications** [SMA⁺17]. **Importance** [CB14, RG18]. **Improve** [CDLL19, HBF⁺16, KGP14, RRdM16].

Improved [DH14, FFSS17, KG14, yLsL14, PCB15, PHM⁺17, PPSG17, SF14, SGM⁺15, TDL19, YsL15, YND14]. **Improvement** [HCJT15, KNBC19]. **Improvements** [BD16, ZSIA16]. **Improving** [DC16, HWW16, LWZZ16, LCLS19, LLL⁺19, NW15, TL19, WJ15a, WK16, WGR⁺18, YCLS17]. **Impulse** [ADM⁺17, BWH18, CCR16, KB14, KBT19, MCD14, TP15, Ter16, TZZ⁺15a, VDC⁺17]. **Impulsive** [NCC15, RBBG15]. **Imputation** [RLPK15]. **Inaugural** [Ano19t, Li15]. **Incidence** [PCB14]. **Incoherent** [BABC19]. **Incomplete** [SNTD19]. **Incomplete** [KMG15]. **Incorporating** [HCJT15, STS18, WTZ18]. **Increase** [KNH⁺18]. **Increased** [SK16a]. **Incremental** [CGL⁺15, MP16, RLK14]. **Independent** [CMY16, EZS14, JJB16, KCMW17, KOS⁺16, LW19, LCM18, MMT⁺19, WHQY19, WDD⁺16, YM17, ZSB17, ZKH18]. **Index** [Ano14a, Ano17a, Ano18a, KA16]. **Indian** [PM19]. **Indirect** [PCW15]. **Individual** [CB14, GSA18, JK19, KKJN17, ZYG⁺14]. **Individual-Weighting-Factors** [KKJN17]. **Indoor** [DCZ19, LYN14]. **Induction** [BCCZ19, ZDC14]. **Inference** [AV16, BWH18, Bre15, LZ16, SEM⁺14, YJX19]. **Inferring** [KHCW15]. **Infinite** [MIYO14]. **Infinite-Order** [MIYO14]. **Influence** [MNFGO19, RF19]. **Influences** [CHC⁺14]. **Information** [ARSLN16, Ano14-66, Ano14-67, Ano14-68, Ano14-57, Ano14-58, Ano14-59, Ano14-60, Ano14-61, Ano14-62, Ano14-63, Ano14-64, Ano14-65, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano14-40, Ano14-41, Ano14-42, Ano14-43, Ano14-44, Ano15-60, Ano15-61, Ano15-62, Ano15-63, Ano15-64, Ano15-65, Ano15-66, Ano15-67, Ano15-68, Ano15-69, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano15-35, Ano15-36, Ano15-37, Ano15-38, Ano15-39, Ano16-42, Ano16-43, Ano16-44, Ano16-45, Ano16u, Ano16v, Ano16-27, Ano16-28, ACB17, BSL15, CLCW18, CBCL15, FDK15, JZJØ19, JT14, KHK17, KML18, KNH⁺17, MK15b, PDS⁺16, RRdM16, RMBK14, RLK14, SP17, TM14, TM16, VML14, WJ15a, WSH15, YDZ19, YMM19, ZW16a, Ano14-77, Ano14-78, Ano14-79, Ano14-80, Ano14-69, Ano14-70, Ano14-71, Ano14-72, Ano14-73, Ano14-74, Ano14-75, Ano14-76]. **information** [Ano15-50, Ano15-51, Ano15-52, Ano15-53, Ano15-54, Ano15-55, Ano15-56, Ano15-57, Ano15-58, Ano15-59, Ano16-38, Ano16-39, Ano16-36, Ano16-40, Ano16-37, Ano16-41, Ano16g, Ano16h, Ano17-57, Ano17-58, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u]. **Information-Based** [RMBK14]. **Information-Theoretic** [FDK15]. **Informative** [KNH⁺17]. **Informed** [CH18, DM16, FPTJ17, FPTJ18, KKGK18, KBG16a, SBM⁺19, TH14, TTH14, WWD14, WED17]. **Initial** [WDD⁺16]. **Innovations** [Ano19t, Den14]. **Inpainting** [MPHM19, PHMB18]. **Input** [Ano19c, CD17, CHJ14, HM14, MMDL⁺14]. **Insights** [HCB18]. **Inspired** [ARW⁺16, MAK15, XGKM18, dICSVAGAPM15]. **Instance** [BY15]. **Instant** [KKGH16, MG18]. **Instantaneous** [EMTF17, JP14, KGH⁺16, NJC16b, TTH14]. **Instances** [DP16, KDY14]. **Instrument** [AS17a, MSS17]. **Instrument-Centered** [AS17a]. **Instrumental** [AKG⁺17, PCW15, VKH18]. **Integrated** [IBN⁺18, ZEM18]. **Integration** [AVM19, GJB15, MKA16, SKDN14, VZC14]. **Intelligence** [WRKG17]. **Intelligibility** [AdHTJ16, AdTJ18, EZS14, HCJT15, JT14, JT16, JRA17, KNBC19, KHK17, KKK15, KTJ19, MJZ15, PK15, SF14, TM14, VKH18, ZSIA16]. **Intelligible** [LM17]. **Intensity**

[Hac14, HMN17, YWLZ18]. **Inter** [PM19]. **Inter-Pausal** [PM19]. **Interaction** [WWLL14]. **Interactive** [LCW⁺18]. **Interaural** [IC19, MHD15, MD18, RJW19]. **Interference** [HMDG15, TK14]. **Interframe** [AM18b]. **Intermittently** [IO19]. **Interpolation** [ADM⁺17, MCD14, RBBG15]. **Interpretability** [WGR⁺18, eUY⁺18]. **Interpretable** [ZZY19]. **Intonation** [TG16]. **Intra** [JYB⁺15]. **Intra-Object** [JYB⁺15]. **Introducing** [Ano16-46, Ano16-47, Ano16-48, Ano16-49, Ano17-61, Ano17-62, Ano17-63, Ano17-64, Ano17-65, Ano17-66, Ano18-64, Ano18-65]. **Introduction** [LFH⁺15, RVB⁺17, SHKB17]. **Intrusive** [CSS⁺19, PSL⁺16, VKH18]. **Intuitive** [CDA⁺14]. **Invariant** [BABC19, HBC17, HCB18, KYTJ17, LSW18, LM15]. **Invasive** [BSWP18]. **Inverse** [ARSA14, ABA17, AKN⁺16, CMG⁺17, GJ17, LGGH19a, MG19, SR16a, SH19, ZF14]. **Inversion** [DSMD15, HGAPB15, JJB16, TKT17]. **Investigating** [DQY18]. **Investigation** [CSJD16, CD17, LH14, NW14, PCLP14]. **Investigations** [CWCP17]. **Irregularities** [GdC14]. **ISNMF** [MV19]. **Issue** [Ano16-50, Ano16-51, SHKB17, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57]. **Iterative** [CTLL17, SOF15, SH19, WHRC16]. **iVector** [RSR⁺19]. **iVector-Based** [RSR⁺19]. **IVN** [DH14].

Joint [ABA17, AJLW14, ADM⁺19, BV17, CDLX18, CL17a, GDC19, HKHJS15, JCBJ15, KMAB18, KD16, KHHJ19b, LK19, LZC⁺14, LZ16, MSS17, MAT15, MK16, NW15, PKA14, QTY16, SOF15, TQW⁺15, TLWV17, WW16, WED16, WLLZ17, WAJL15, XGKM19, YZL⁺18, ZYF18].

Kaiser [KPH15, SH17b]. **Kalman** [BvWWM17, BH18, DB18, DB19, NCC15, SGH15a, TCY15, XMBN18]. **Karhunen** [LPHCB14]. **Keeping** [Den14]. **Kernel** [DTC16, DTC17, DSH18, GI15, XDC⁺17]. **Kernels** [WTHJ14]. **Key** [DAFS15, YZW⁺18]. **Keyword** [HPB15, HBF⁺16, LWL⁺19, WJ15b, YGS19]. **Keyword-Attentive** [LWL⁺19]. **Kinematic** [JJB16]. **Kinematic-Independent** [JJB16]. **KLT** [RKL14]. **Knowledge** [GJB15, LWJ19, yLSY⁺14, LWC⁺18, WTZ18, ZXSL19]. **Knowledge-Aware** [LWC⁺18]. **Kronecker** [CBC19, PBC18]. **Kullback** [SLGZ15].

Label [PHM⁺17]. **Label-Tree** [PHM⁺17]. **Labeled** [Lin19, MSB18]. **Labeling** [DBM15, ZQZH19]. **Labelled** [KXS⁺19]. **Labels** [LCSL19, LB19, YCLS17]. **Ladder** [DV14a, DV14b]. **Lag** [AS17b]. **Language** [AVK⁺15, Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48, Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-44, Ano15-54, Ano15-45, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano15-59, Ano16k, Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37, Ano16-41, Ano16i, Ano16j, Ano17-59, Ano17-60, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t, Ano17u, Ano17v]. **Language** [Ano17w, Ano17x, Ano17y, Ano17-57, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28,

Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano19a, Ano19t, ACRS14, BDV⁺¹⁴, CPCBFSF16, CSJD16, CLC⁺¹⁵, CLW⁺¹⁶, CLW⁺¹⁹, Chi15a, CBCL15, DHD⁺¹⁹, DBM15, FOBP15, FLMS16, HLL15, HYI⁺¹⁵, HOF15, JHLK18, JSMD18, KG17, LTWT17, LFH⁺¹⁵, LCC⁺¹⁵, LCW⁺¹⁶, MDY⁺¹⁵, RV14, RV17, RLK14, SHD14, SHDG16, SLK17, SNS15, TWC⁺¹⁸, VTN15, WZL⁺¹⁵, WsL15, WSH15, WTQ⁺¹⁹, YsL15, YTWB19, ZZZ16, ZH18, ZZY19, ZWX15].

Language-Adversarial [YTWB19].

Language/Dialect [ZH18]. **Languages** [DCLHJ18, PM19, ZP15]. **Laplace** [Chi15b]. **Large** [CL14b, DB15, ESVK17, JHLK18, SAP14, SFIL17, TB18, WBSG18].

Large-Scale [CL14b]. **Laryngeal** [DB17]. **Laryngectomy** [MHD⁺¹⁷]. **Lasso** [RBR16]. **Lasso-LC** [RBR16]. **Late** [BRD15, BKS⁺¹⁸, CS19, HCJT15, KD18, XGKM19]. **Latency** [CK19]. **Latent** [HM14, KGG19, LWCL19, RV14, RCL18, WTHJ14, WSH15, ZWCT15].

Lattice [CM18, LCW⁺¹⁶]. **Law** [SAB16].

Layer [CLLD14, SS16]. **Layer-Wise** [CLLD14]. **Layouts** [CT14]. **LCMV** [HDG16, MGGK17, SGH17c].

LCMV-TRINICON [MGGK17]. **Lead** [MFG15, RLS⁺¹⁸]. **Learned** [MMT⁺¹⁹, ZW19]. **Learners** [LCSL19].

Learning [AZK15, BXY14, BSR17, BSER17, CWDA17, CDLL19, CJ15, CM15, CCT⁺¹⁹, CHL⁺¹⁹, CY16, Chi18b, CWBv19, CTLL17, DCLHJ18, DVLH17, DDZL19, FOBP15, FGQ⁺¹⁵, GFG⁺¹⁴, GH17, GCG⁺¹⁷, GMFG16, HWW⁺¹⁵, ISP19, JG19, KKGK18, KSU⁺¹⁹, KG19, yLSY⁺¹⁴, LCW⁺¹⁸, LK19, LK16, LB19, MP16, NLL⁺¹⁸, NNL15, PHM⁺¹⁶, Rak17, RH18, RARR15, RG18, RV17, SP16, SSFP18, STT⁺¹⁹, SK16b, SCEH19, SLR16, TMM18, TR14a, TDL19, VRN18, WsL15, WED17, WDDL18, WC18a, WW19, WHQY19, WZW19, WBSG18, WGR⁺¹⁸, XDC⁺¹⁷, XHW⁺¹⁷, YTWB19, YH17, ZCDS15, ZW16b, ZW17, ZH18, ZWW19, ZXH⁺¹⁶, ZB14, ZPP15].

Learning-Based [CDLL19, KKGK18, LK19, SSFP18, SK16b, WZW19]. **Least** [BBM17, EIPB⁺¹⁹, LZHN14, SOF15, SD16b, SH19, ZZH16]. **Least-Mean-Square** [ZZH16]. **Least-Squares** [BBM17, EIPB⁺¹⁹, SOF15, SD16b, SH19].

Lecture [yLSY⁺¹⁴]. **Lectures** [YsL15].

Legendre [CCR16]. **LEGOs** [ED18].

Leibler [SLGZ15]. **Lemma** [KSU⁺¹⁹].

Length [CC14a]. **Level** [CONVVC18, CHJ14, CWU⁺¹⁹, CC14b, DTN⁺¹⁷, FNA15, KYTJ17, OGZ18, SGH17b, TQW⁺¹⁵, YsL15]. **Levels** [GB14].

Leveraging [CLC⁺¹⁵, DSH18, XYH14, YW14].

Lexically [LFQL19]. **Lexicon** [BCCZ19, DJY⁺¹⁹, KJG16, ZWCT15].

Library [Ano15-28, Ano15-29]. **LID** [JSMD18]. **LID-Senones** [JSMD18].

Likelihood [CWJ15, CWJ16, CG16, HH14, KDJJ16, KDJJ17, LGHG17, MH18, SHAGPRZ17].

Limited [HLL15, HOF15, NNC19, SDK17].

Limits [MK15c]. **Limits-Potential** [MK15c]. **Line** [TM16]. **Linear** [ARSA14, AS17b, BSB14, BLLP17, BSL15, BBAS19, BH18, CS19, CPL14, DV14a, DHSG15, DST⁺¹⁹, FFSS18, GR14, GCJ⁺¹⁴, HTG14, JBC16, JvWGD15, KKK15, MAP14, MH18, NXCL16, OOK17, PBC18, PCB16a, MG19, SAB16, YK14]. **Linearly** [ABKP19, KSHH18, MHGD15, RMBK14].

Lines [HL14]. **Lingual** [ASC⁺¹⁸, CHWL14, FL19, LJX⁺¹⁶, LGR14, PM15, SDK17].

Linguistic [DBM15, LWC⁺¹⁸, NNC19].

Linguistics [OL15]. **Link** [CSAR⁺¹⁴].

Linked [YKPMP18]. **Linking** [FMB16].

List [Ano14-81, Ano15-70, Ano17-67, Ano18-66].

Listening [BA16, LLW⁺¹⁹, LSDM19, RG15b].

Listwise [ZLLS16]. **Liveness** [STH⁺¹⁸].

LMS [CC14a]. **Local** [ATS18, BSL15, CC15, LFdDG14, MYT⁺19, WAS16, WWH⁺18, YK17]. **Locality** [GQXZ19]. **Localization** [AKB⁺16, APH14, ADM⁺19, BOL⁺18, CBA⁺15, CPSFC⁺14, ÇOH18, DCZ19, DHSG15, DG15, DPHG18, FPTJ17, FPTJ18, GSA18, HWRC15, LGTG16, LGTG17, LGHG17, Lin18, MMB17, MGB18, MBM15, NR14a, PS19, PLZL17, PHK16, RJCW17, SDF18, SPM17a, SPM17b, SSS18, TWSS16, VAH19, WRC16, WHRC16, WZW19, WRKG17, YLPL19, YZLY17, ZEM18]. **Localizing** [JC17]. **Locally** [DHSG15]. **Locally-Linear** [DHSG15]. **Location** [AM18a, SKDN14]. **Loève** [LPHCB14]. **Log** [DLG18]. **Logarithmic** [LKHU14]. **Logic** [BM15]. **Logic-Based** [BM15]. **Lombard** [JRA17]. **Long** [CBCL15, MKMDM17, NR14b, PDS⁺16, PHMB18, YB14, ZLJ⁺17]. **Long-Term** [MKMDM17, YB14, ZLJ⁺17]. **Loop** [DV14b, FB18, FB19, XYH14]. **Loss** [ACB19, JZJØ19, LC16a, LWL⁺19, NWM16, XWZ16]. **Loss-Augmented** [XWZ16]. **Loudness** [LSW18]. **Loudness-Invariant** [LSW18]. **Loudspeaker** [BA16, BBJ18, DvWDM14, FNA15, GEC15, HSK17, KBV16, OFF⁺17, SSTS18, VDM15, ZA14]. **Loudspeaker-Room** [BA16]. **Loudspeaker-Signal-Domain** [VDM15]. **Loudspeakers** [MJJ⁺14]. **Low** [AM16, BF18, BIK⁺18, CBA⁺15, CLAG16, CWW14, CM15, CRH⁺14, CK19, CPSFC⁺14, EIPB⁺19, FWM⁺14a, FWM⁺14b, GQXZ19, Hel14, HOF15, KSHH18, LJK17, LGR14, MGF18, MCD14, PKA14, SV18, SDF18, SMVW14, SLC⁺15, SKH⁺15a, SKH⁺15b, SLGZ15, VH19, WW15, YLD15, YTWB19, YGS19, ZN14]. **Low-Bit-Rate** [LJK17, SKH⁺15b]. **Low-Bitrate** [BF18]. **Low-Complexity** [CBA⁺15, SDF18, SLC⁺15, VH19]. **Low-Cost** [CPSFC⁺14, KSHH18, ZN14]. **Low-Delay** [CRH⁺14, SKH⁺15a, SKH⁺15b]. **Low-Frequency** [MGF18]. **Low-Pass** [Hel14]. **Low-Rank** [BIK⁺18, EIPB⁺19, GQXZ19, HOF15, PKA14, SLGZ15, SMVW14]. **Low-Resource** [CM15, LGR14, SV18, YTWB19]. **Lowband** [AF19]. **LPC** [WCY15]. **LS** [RBR16]. **LSTM** [CSS⁺19, CH16, HWT⁺17, KCMW17, SSK17, SNS15, XLL⁺19]. **LSTM-Network** [CSS⁺19]. **LVCSR** [CH16]. **Lyric** [WJ15a]. **Lyrics** [CWJ16]. **Machine** [BBC⁺16, BY15, CZY⁺18, CWU⁺19, GCG⁺17, HSZ⁺18, LLW⁺19, LWC⁺18, LCZ⁺19, LWCL19, MHPB15, NTM16, NTY19, NNC19, RG18, SZX⁺18, TZZ15b, WZL⁺15, WTZ18, WUF⁺18, WXZ⁺19, WZZ⁺18, XWZ16, XZW15, ZLLS16, ZXSD17, ZZLZ19, ZXSL19]. **Machine-Learning** [RG18]. **Machines** [CL14b, NTA15]. **Magnitude** [BIK⁺18, LGGH19a, LM19, PBS17, SLY14]. **Mainlobe** [TC19]. **Management** [CCT⁺19, WLL15b]. **Manager** [GY14]. **Mandarin** [CHC⁺14, CWCP17, HWW16, LCCL19, LCWC16, XWWW19]. **Manifold** [GMFG16, LGTG16, SV17, TR14a]. **Manifolds** [LGTG17]. **Manipulation** [EMTF17]. **Many** [ATA16, DTN⁺14, HSM19]. **Many-to-Many** [ATA16, HSM19]. **MAP** [MSD14, TMH⁺14]. **MAP-based** [TMH⁺14]. **Mapping** [BE17, GHAP17, HWW⁺15, KG19, LWZ⁺14, PS17, PLZL17]. **Mappings** [TKT17]. **Maps** [DTC15, MAB⁺16, WCC⁺15]. **Marginal** [WXZ⁺19]. **Marginalization** [ET18]. **Marginalized** [ZCY16]. **market** [Ano15z, Ano15-27]. **Markov** [DBK15, NYD17, PCW15, RV17, TP16, YSCZ15]. **Mashups** [DHYG14]. **Mask** [BA19, PZP19, RBBG15]. **Masked** [JT16]. **Maskers** [JT16]. **Masking**

[DW17, DRK18, KML18, LS14a, LM19, WZW19, WWW16, WW17, ZH15].

Masking-Based [DW17]. **Masks** [HKHJS15, LK19]. **Matching**

[LWJ19, MKA⁺¹⁴, OFF⁺¹⁷, SSTS18, UKS19, WZS14, YGV14].

Matching-Aggregation [LWJ19].

Matrices [LHD16, ZF14, ZDLK18]. **Matrix** [ATA16, BSER17, CONVVC18, DVLH17, ED18, HL15, JP14, KHTL18, KSK⁺¹⁵, KOS⁺¹⁶, LKPR18, MMT⁺¹⁹, MXNB19, SGH16, TH17, WGD15, ZTQB19, ZXH⁺¹⁶].

max [SD16a]. **Maximization** [DG15, DPHG18, LGHG17, LSH14, SGH16, WD16].

Maximization-Based [WD16]. **Maximize** [KNH⁺¹⁷]. **Maximum**

[CG16, HH14, HBLC14, HXWS15, KLK17, KDJJ16, KDJJ17, LMC18, MH18, PBC16, SHAGPRZ17].

Maximum-a-Posteriori-Based [KLK17].

Maximum-Likelihood [MH18]. **MaxNSR** [WGD15]. **Mean** [JT15, KTJ19, LMC18,

RLPK15, SKSD14, ZZH16]. **Mean-Square** [JT15, KTJ19]. **Means** [EZS14]. **Measure**

[AKG⁺¹⁷, LCC⁺¹⁵, MJZ15]. **Measurement** [CCR16, FNA15, MAL18, SP17].

Measurements

[BKK15, Hac14, KMM⁺¹⁸, KMG15, RF19].

Measures [DAGS⁺¹⁸, FDK15, MVH16, SSFP18, TM14, ZKDS18]. **Mechanism**

[LWL⁺¹⁹, OGZ18]. **Media** [XHS⁺¹⁸].

Meeting [BSL16, FMB16, TS16, YB14].

Meetings [BSL15]. **Mel**

[DP16, JT15, LKHU14, YHO⁺¹⁸].

Mel-Cepstrum-Based [YHO⁺¹⁸].

Mel-Frequency [JT15]. **Melody**

[CWJ15, RDP14, WJ15a, ZCYZ18].

Member [Ano15-28, Ano15-29, Ano17-68, Ano17-69, Ano17-68, Ano17-69]. **Memory**

[CL14a, GWG⁺¹⁴, OOK17, PDS⁺¹⁶, XSL⁺¹⁹, ZYG⁺¹⁴]. **Memory-Enhanced**

[GWG⁺¹⁴]. **Mention** [ZB14]. **Merged**

[NYS17]. **Merged-Output** [NYS17]. **Mesh**

[GDM18, SMH14]. **Meter** [GKC16].

Method

[AGW15, DV14b, DTC16, DTC17, FFSS18, GCvWMJ14, JP14, JFG⁺¹⁷, KKGH16, LCLM18, MF18, MGF18, MGT15, OFF⁺¹⁷, PCLP14, PBS17, SR16a, SAA15, SK16b, TG16, TNS⁺¹⁸, UKS19, WCY15, WAJL15, XNG⁺¹⁴, XNRG15, ZW16b, ZH15].

Methodology [PM15]. **Methods**

[ABvM19, GPF17, HB17, JVR16, JCBJ15, JK15, KBV16, KML18, LFH⁺¹⁵, LCW⁺¹⁶, RDP14, RJCW17, WLL^{+15a}, WAS16, YZLY17]. **Metric** [GSA18, LCZ⁺¹⁹, SF14].

Metrical [KHCW15]. **Metrics**

[BDL15, FWT⁺¹⁸, VKH18]. **MGM**

[Ano17-68, Ano17-69]. **Micro** [DB15].

Micro-Modulation [DB15].

Microcanonical [KDY14]. **Microphone**

[AR16, BC18, BCB18, CBA⁺¹⁵, CM18, CZ17, CASZ17, CC14b, ED18, FSA18, Hac14, HBC17, HCB18, IO17, JEP14, KK14, LWZ⁺¹⁴, MVH16, MXNB19, NR14a, NHK16, Non14, OISO14, PCB15, PCB16a, PCBS19, PC19, SSTS18, SNTD19, SGH15b, SKDN14, SPM17a, SPM17b, SBVM16, TH14, TJCB16, TP15, TCY15, TR14b, TR15, TNS⁺¹⁸, TC19, TE16, VH19, WD16, WC18b, WCCB19, WC16a, WRKG17, YKPMP18, YLL15, ZCY16, ZCHH18, ZBC14].

Microphones

[ABvM19, BBAS19, LGTG17, MH16, STH⁺¹⁸, SAP14, SFK15, WRC16, WHRC16].

Microwave [BSWP18]. **Mid** [MMCF18].

Mid-Term [MMCF18]. **MIDI** [WL19].

MIDI-Trained [WL19]. **Min** [SD16a].

Min-max [SD16a]. **Minimal** [MSD14].

Minimax [Non14]. **Minimization**

[CY15, GCJ⁺¹⁴]. **Minimum**

[ABKP19, JT15, RMBK14, WK16].

Misequalization [LC16b]. **Mises** [ATP15].

Mismatch [SH14a, SAB16]. **Mismatched**

[DCLHJ18]. **Mismatches** [BC18, WC16a].

Mispronunciation

[HXWS15, LCSL19, PLT⁺¹⁸, QMS16].

Missing [IO19, WED17]. **Mitigating**

[NWM16]. **Mixed** [CM18, CHJ14, DLY⁺19, GDC19, HLL15, HYI⁺15, LSW18, TZZ⁺15a]. **Mixed-Bandwidth** [GDC19]. **Mixed-Order** [CM18]. **Mixed-to-Panned** [CHJ14]. **Mixed-Units** [DLY⁺19]. **Mixing** [AJLW14, HYI⁺15, LBR18, SH17a]. **Mixture** [BDV⁺14, CWYC17, CY15, DH14, GR14, GHAP17, HSN18, HIA⁺17, HGAPB15, LMC17, LGR14, MPC16, WDDL17]. **Mixtures** [BP14, BV16, DHP14, HJC19, HSN18, KBGAP⁺16, SDDCC15]. **MMSE** [ET18, KBG16b]. **MMSE-Based** [KBG16b]. **Modal** [BMVG17, TZA14, ZCQ⁺19]. **Mode** [UKS19, ZCF14]. **Mode-Matching** [UKS19]. **Model** [ARW⁺16, AJLW14, BDV⁺14, BDL15, BCA15, CONVVC18, CW18, CH16, CWYC17, CWCP17, CZY⁺18, CWJ15, Chi15a, CDA⁺14, DV14b, DLY⁺19, DHD⁺19, DvWDM14, DLG18, DJY⁺19, DDZS17, DBM15, DDNN19, GTS⁺19, GR14, HSN18, HIA⁺17, HOF15, IO19, JFG⁺17, JBTA19, KSL19, KNBC19, KMAB18, KKK15, KGH⁺16, KHHJ19b, KGG19, LLR⁺16, LWJ19, LG19, LTWT17, LKHU14, LAK16, LJX⁺16, LS14b, MWT16, MYT⁺19, MBD18, MV19, MDM15, NV14, OOK17, MG18, RLPK15, SAC17, SGH17a, SMB18, SZX⁺18, SR16b, SLR16, TQY16, TLWV17, TWC⁺18, TZZ⁺15a, TP16, TG16, TWSS16, TZZ15b, VMOL16, WZL⁺15, WYLZ16, WLLZ17, WTY18, WB18, WSFS19, WSH15, WL19, XHS⁺18, ZDC14, ZZZ16, ZYF18, ZZY19]. **Model-Based** [BCA15, CW18, KNBC19, KGH⁺16, MBD18, OOK17, SGH17a, WB18]. **Modeling** [AS17b, AKN⁺16, BP14, BHS⁺16, CDLL19, CHC⁺14, CLC⁺15, CDLX18, CWJ16, CBCL15, CC15, CGK15, DAMvW15, DAFS15, DDNN19, FOBP15, FL19, GLQ16, GDC19, GBH16, GCJ⁺14, GQXZ19, HSN18, ISZA15, JK19, KYI⁺15, KKGK18, LM15, LWZZ16, LAGD18, LCC⁺15, LK16, LLWJ16, LXS⁺18, MX17, MSS17, MD16, MJJ⁺14, NCC15, OL15, QWL⁺19, RV14, RAB18, RJW19, RCL18, SS16, SLL⁺16, SSK17, SMH14, SMSV17, SLY14, SNS15, TMH⁺14, VM15, WS14, WLL⁺15a, WCC⁺15, XZW15, YsL15, ZKA15, ZHB⁺18, ZLL⁺19, ZJD⁺15, VZC14]. **Modeling-Based** [CC15, DDNN19]. **Modelling** [ONKP16, SFIL17, WK16]. **Models** [Abd18, AVK⁺15, ACRS14, AGBC14, BSR17, BS14, CPCBFSF16, CLW⁺16, CLW⁺19, Chi18a, Chi15b, Cum15, CL18b, DKO⁺18, DBK15, DSN18, DWX⁺16, DH14, GMH14, HSPK18, HH14, HYI⁺15, IBN⁺18, KLK17, KWGW17, KK19a, LGTG18, LBR18, LCSL19, LCW⁺16, LGR14, MGB18, MZM15, NW15, PCW15, RV17, SV18, XHW⁺17, ZM17]. **Modification** [DAR16, TKT17]. **Modifications** [EZS14]. **Modified** [PCG17]. **Modify** [TTB⁺16]. **Modulated** [JT16]. **Modulation** [BV16, CSS⁺19, DB15, DB18, DB19, GMH14, HSK17, HHC16, MAK15, MKA16, MBK17, TTB⁺16, WB18, XWWW18, XMBN18]. **Modulation-Based** [HSK17]. **Modulation-Domain** [DB18, DB19, MBK17, XMBN18]. **momentum** [Den14]. **Monaural** [CH15, CY16, DW17, DB19, FBE19, HKHJS15, JSYW16, LSDM19, LW19, MV19, SWCN19, TOS14, TCW19, WWW16, XGKM18, ZW16b]. **Monolingual** [PM15]. **Montage** [OR16b]. **Moog** [DV14a, DV14b]. **Morph** [MK15a]. **Morph-Based** [MK15a]. **Morphological** [FOBP15, HBF⁺16, LLR⁺16]. **Morphologically** [ZP15, dICSVAGAPM15]. **Motif** [XO16]. **Motifs** [XO16]. **Motion** [SLH17]. **Motivated** [VDC⁺17, VS14]. **Movements** [KCMW17, MMB17, YLLC19]. **Moving** [NDV18, TH18, TR15]. **MPEG** [CRH⁺14]. **MPEG-4** [CRH⁺14]. **MRI** [ADGE19]. **MRI-Based** [ADGE19]. **MSE** [Wid19]. **MSE-Optimal** [Wid19]. **MT**

[BDL15]. **Multi**
 [BSL15, CD17, CS19, DCZ19, DHYG14, DHD⁺19, DAR16, DST⁺19, DWX⁺16, DHP14, FOBP15, GTS⁺19, GKC16, HWRC15, JvWGD15, KD16, KD17, Lin19, LH14, MHD15, MHGD15, May18, PC19, PZP19, PP19, QTY16, SNTD19, SGH15b, SLOVB15, TZA14, VH19, WYSD15, YW14, YLL15, YND14, YJX19, ZDG14, VZC14]. **Multi-Bernoulli** [Lin19]. **Multi-Channel** [CS19, DST⁺19, JvWGD15, KD16, KD17, MHD15, MHGD15, PZP19, SLOVB15, TZA14, YND14]. **Multi-Compositionality** [DWX⁺16]. **Multi-Conditional** [May18]. **Multi-Device** [HWRC15]. **Multi-Dimensional** [DCZ19]. **Multi-Document** [YW14]. **Multi-Factor** [QTY16]. **Multi-Feature** [ZDG14]. **Multi-Frame** [DAR16]. **Multi-Genre** [DHD⁺19]. **Multi-Input** [CD17]. **Multi-Microphone** [PC19, SNTD19, SGH15b, VH19]. **Multi-Output** [CD17]. **Multi-Party** [BSL15]. **Multi-pitch** [DHP14]. **Multi-Purpose** [GKC16]. **Multi-Resolution** [PP19]. **Multi-Session** [LH14]. **Multi-Song** [DHYG14]. **Multi-Stage** [GTS⁺19]. **multi-style** [VZC14]. **Multi-Talker** [WYSD15, YLL15]. **Multi-Task** [FOBP15, YJX19]. **Multiband** [PPSG17, XWWW18]. **Multiband-Structured** [PPSG17]. **Multichannel** [BP14, BIK⁺18, Bay15, CONVVC18, DDNN19, Emu18, HCBY18, IBN⁺18, KSK⁺15, LPHCB14, LBR16, LBR18, LGGH18, LGGH19a, LGGH19b, LZHN14, Lin18, LFdDG14, NDV18, NLV16, OIY⁺14, RKL14, SWW⁺17, SEM⁺14, SK16a, SBN⁺19, SMVW14, SBM⁺19, TH17, TS14, XMBN18, YK14, ZDLK18]. **Multilayer** [NXH⁺17]. **Multilingual** [SV17, ZXH⁺16]. **Multiloudspeaker** [FWF17]. **Multimedia** [Ano17-58, Ano16g, Ano16h, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u]. **Multimicrophone** [GVMGO17, KHHJ19b, SGH16]. **Multimodal** [DTC17, GMH17, HM14, SLH17]. **Multiojective** [WDDL18]. **Multipitch** [SY15]. **Multiple** [AHSS⁺18, ATA16, AM18a, AB15, BA16, BCA15, BOL⁺18, ÇOH18, DCZ19, ESJ17, JYB⁺15, LGTG17, LWZ⁺14, LAK16, LGHG17, MMB17, MGGK17, NR14a, NYS17, PHK16, SLOVB15, SSS18, TOS14, TS16, WED16, XNP⁺18, XDC⁺17, YLPL19, YZLY17, YHO⁺17, ZA14, ZH15, ZJD⁺15, KMG17]. **Multiple-Speaker** [LGHG17]. **Multiplicative** [FK19, HBB17]. **Multiplicity** [PBC16]. **Multirate** [YLJ16]. **Multiscale** [KDY14]. **Multisession** [GH17]. **Multisource** [LMC18, WRK18]. **Multispeaker** [SGH17c]. **Multitalker** [KYTJ17]. **Multitask** [BSR17, CM15, DCLHJ18, TMM18, TLWV17]. **Multiview** [GFG⁺14, MAST15, MBD⁺15]. **Multizone** [CH14, DRK18, JK15, RBR16]. **Music** [AS17a, AB15, CWYC17, CDW16, DHYG14, HJC19, JSYW16, KHCW15, KG16, LSW18, NWM16, NNS16, NYS17, PKA14, RV14, RLS⁺18, RRdM16, SBV17, SBD16, SY15, TOS14, VML14, YBC⁺14, ZCYZ18]. **Musical** [ARW⁺16, AB14, FMD14, MP16, WED16]. **Mutual** [IY16, JT14, KHK17, KNH⁺17, MYT⁺19, RMBK14, TM14, TM16, TK14]. **MVDR** [AVM19, HMDG15, HIA⁺17, PCB14, SM14, ZCHH18]. **MWSG** [KMG17]. **Named** [XHS⁺18]. **Names** [MK15a, PBQ15]. **Narrow** [AA17]. **Narrow-Band** [AA17]. **Narrowband** [AS15, CE14, FK19, JTHN14, LC16b, MX17]. **Nasalized** [VAP19]. **Native** [LCSL19]. **Natural** [CSJD16, CWH⁺16, LFH⁺15,

RG15b, RLK14, SHD14]. **Naturalistic** [DSH18, KSH17]. **Near** [ATP16, HCJT15, MF18, PC19, VAH19, ZSIA16]. **Near-End** [HCJT15, PC19]. **Near-Field** [ATP16, MF18, VAH19]. **Nearby** [YKPMP18]. **Nearest** [MSD14, SDK17]. **Nearest-Neighbors** [MSD14, SDK17]. **Neck** [MVH16]. **Neck-Surface** [MVH16]. **Need** [GSA18]. **Negative** [ATA16, BDV⁺¹⁴, BOL⁺¹⁸, DVLH17, ED18, MD16, ONKP16, ZXH⁺¹⁶]. **Neighbors** [MSD14, SDK17]. **Nets** [BGD⁺¹⁸]. **Network** [ACRS14, BSR17, CSS⁺¹⁹, CLC⁺¹⁵, CLW⁺¹⁶, CLW⁺¹⁹, CGK15, DHD⁺¹⁹, DKO⁺¹⁸, DWX⁺¹⁶, FLMS16, GTV19, GAPGG19, HW14, KCMW17, LTWT17, LCW⁺¹⁶, LCM18, May18, MZM15, NW15, OGZ18, QDSL19, QTY16, SS16, SBD16, TQY16, TQH⁺¹⁸, TB18, WDDL18, WWS⁺¹⁸, XAHJ⁺¹⁴, YHC19, YHO⁺¹⁸, ZW16a, ZZN⁺¹⁶, ZKH18]. **Network-Based** [GTV19, May18]. **Networks** [AHMJ⁺¹⁴, AF18, AM18a, AdTJ18, BBM17, BRD15, CBA⁺¹⁵, CLAG16, CLLD14, CM15, CG17, CPSFC⁺¹⁴, CG16, DHCS15, DAGS⁺¹⁸, DQY18, DTDL16, FB18, FB19, FWT⁺¹⁸, GWG⁺¹⁴, GRSP17, HKHJS15, JG19, JWLF14, KWGW17, KK19a, KYTJ17, KSHH18, LC16a, LS14a, LAGD18, LB16, LFQL19, LR17, LCTA19, MMB17, MGB18, MZX⁺¹⁵, MDY⁺¹⁵, MKA16, NLV16, PS19, PDS⁺¹⁶, PHM⁺¹⁷, QBTY16, SWW⁺¹⁷, STS18, SHAGPRZ17, SF18, SHD14, SH17a, STBC17, SWCN19, SNS15, TWZ⁺¹⁸, TCW19, TCY15, TL19, VMOL16, WAS14, WS14, WDDL17, WC18b, WCY19, WYSD15, XDDL15, YZL⁺¹⁸, YMM19, YJX19, ZCY16, ZHH18, ZHH19, ZPD19, ZLF19, ZZ19, ZJD⁺¹⁵, rPH⁺¹⁷]. **Neural** [AHMJ⁺¹⁴, AF18, AdTJ18, ACRS14, ASC⁺¹⁸, BSR17, CLAG16, CLLD14, CLC⁺¹⁵, CM15, CLW⁺¹⁶, CZY⁺¹⁸, CLW⁺¹⁹, CWU⁺¹⁹, CGK15, CG16, DHD⁺¹⁹, DAGS⁺¹⁸, DKO⁺¹⁸, DQY18, DBM15, DWX⁺¹⁶, DTDL16, FLMS16, FWT⁺¹⁸, GWG⁺¹⁴, GTV19, GAPGG19, GRSP17, HW14, HKHJS15, HSZ⁺¹⁸, JHLK18, JG19, JWLF14, KWGW17, KK19a, KCMW17, KYTJ17, LC16a, LTWT17, LS14a, LWC⁺¹⁸, LAGD18, LCW⁺¹⁶, LWCL19, LR17, MMB17, MGB18, May18, MZX⁺¹⁵, MDY⁺¹⁵, MZM15, MKA16, NW15, NLV16, PS19, PHM⁺¹⁷, QDSL19, QTY16, QBTY16, RCL18, SWW⁺¹⁷, SS16, SF18, STBC17, SBD16, SZX⁺¹⁸, SWCN19, SNS15, TQY16, TWZ⁺¹⁸, TWC⁺¹⁸, TB18, WS14, WDDL17, WTY18, WTZ18, WDDL18, WUF⁺¹⁸, WHQY19, WXZ⁺¹⁹, WYSD15, WZZ⁺¹⁸, XDDL15, XAHJ⁺¹⁴, YZL⁺¹⁸, YHC19, YHO⁺¹⁸, YMM19, YJX19, ZW16a, ZXSD17, ZLJ⁺¹⁷, ZYF18, ZKH18, ZZLZ19, ZXSL19, ZPD19, ZZY19, ZLF19, ZZ19, ZJD⁺¹⁵, rPH⁺¹⁷]. **Neural-Network-Based** [YHO⁺¹⁸]. **Neurally** [VR19]. **Neurogram** [MJZ15]. **News** [CLC⁺¹⁵, DDZL19]. **Newton** [FB19]. **Neyman** [KSU⁺¹⁹]. **NMF** [BP14, GWG⁺¹⁴, NLL⁺¹⁸, NDV18, SBM⁺¹⁹, SLGZ15, WRDP17]. **NMF-Informed** [SBM⁺¹⁹]. **NMF-Style** [NLL⁺¹⁸]. **Node** [WCY19]. **Noise** [AA17, AS17b, AHH⁺¹⁹, AM16, AM18b, AKN⁺¹⁶, BSB14, BH18, BBJ18, CC14a, CE14, CD17, CWW14, CZ17, DBK15, DST⁺¹⁹, DBN⁺¹⁷, EZS14, GTV19, GI15, GB14, GdC14, HH14, HCBY18, HCJT15, HIA⁺¹⁷, HBLC14, JFG⁺¹⁷, JTHN14, JT16, JBC16, KGP14, KAJC16, KK19a, KD16, KDJJ16, KDJJ17, LPHCB14, LDGHU14, LS14a, LGGH18, LC16b, LFdDG14, LSH14, MX17, MPAEBLB15, MPC16, MHD15, MHGD15, MD18, MNFGO19, MXNB19, NW14, NJC16a, PK15, QBTY16, QCDW17, MG18, RH18, RG17, RBBG15, SK17, SM14, SGM⁺¹⁵, SEM⁺¹⁴, SGH15b, SGH16, SGH17b, SGH17c, SMVW14, SBM⁺¹⁹, SLW15, SLGZ15, SZVZ16, SK18, SBVM16,

TM16, TQH⁺¹⁸, TMM18, TH17, TP19, TK14, TZZ^{+15a}, TVJ15, TDL19, WGD15, WZS14, XWWW18, XWWW19, YBC⁺¹⁴, YKPMP18, YGV14, YHO⁺¹⁸, ZAZ⁺¹⁸, ZCHH18, ZHH18, ZHB⁺¹⁸, ZTQB19, ZSIA16, VZC14]. **Noise-Field** [ZHB⁺¹⁸]. **Noise-Independent** [EZS14]. **Noise-Reduced** [GTV19]. **Noise-Robust** [AS17b, GI15, LDGHU14, LS14a, SBM⁺¹⁹, TDL19]. **Noisy** [AdHTJ16, DH14, ET18, FSA18, FZZ⁺¹⁵, FNA15, HW14, LKHU14, LH14, MGGK17, SGH17a, VBY18, ZWW14, ZWW19]. **Noisy-Reverberant** [ZWW19]. **Non** [ATA16, BP14, BDV⁺¹⁴, BOL⁺¹⁸, BSWP18, CSS⁺¹⁹, DBK15, DVLH17, ED18, KKTH19, LCSL19, LSH14, MPAEBLB15, MAP14, MD16, NTM16, NJC16a, ONKP16, PSL⁺¹⁶, SOF15, TP16, WJ15b, ZXH⁺¹⁶]. **Non-Ergodic** [TP16]. **Non-Intrusive** [CSS⁺¹⁹, PSL⁺¹⁶]. **Non-Invasive** [BSWP18]. **Non-Native** [LCSL19]. **Non-Negative** [ATA16, BDV⁺¹⁴, BOL⁺¹⁸, DVLH17, ED18, MD16, ONKP16, ZXH⁺¹⁶]. **Non-Orthogonal** [SOF15]. **Non-Parallel** [KKTH19, NTM16]. **Non-Segmental** [MAP14]. **Non-Stationary** [BP14, DBK15, LSH14, MPAEBLB15, NJC16a]. **Non-Uniform** [WJ15b]. **Noncontinuous** [MAT15]. **Nonintrusive** [AdTJ18]. **Noniterative** [PBS17]. **Nonlinear** [Ano19c, CCR16, CSAR⁺¹⁴, CG16, CL17a, CL17b, CL18b, DV14b, FB18, FB19, HSK17, HHMK18, MMMDL⁺¹⁴, PC19, PMB⁺¹⁹, SLGA15]. **Nonlinearly** [AdHTJ16]. **Nonmodal** [BMVG17]. **Nonnegative** [BV16, CONVVC18, FSO17, HL15, KHTL18, KSK⁺¹⁵, KOS⁺¹⁶, LKPR18, LGGH18, MH16]. **Nonparametric** [Chi18b, LM15, MIYO14, TVJ15]. **Nonparametrics** [OISO14, OIY⁺¹⁴]. **Nonrecurrent** [ZLJ⁺¹⁷]. **Nonspeech** [AY15, PHM⁺¹⁶]. **Nonstationary** [MT18, NJC16b, OD17, TH17, WAS14]. **Nonuniqueness** [SK16a]. **NOPM** [MJZ15]. **Norm** [ABA17, BV17, DC16, GCJ⁺¹⁴, HCBY18]. **Norm-1** [ABA17]. **Norm-2** [ABA17]. **Normal** [JRA17, ZDLK18]. **Normal-to-Lombard** [JRA17]. **Normalization** [JKU18]. **Normalized** [CJ15, KS16, ZZH16, dICSVAGAPM15]. **Notch** [GSA18]. **Note** [NYD17, ONKP16]. **Notes** [WED17]. **Novel** [BKK15, DV14b, EDO17, LSH14, PCLP14, RJCW17, SR16a, SP16, TG16, WCY15]. **Nuisance** [KMAB18]. **Null** [PBC16, SNTD19]. **Null-Steering** [SNTD19]. **Number** [OIY⁺¹⁴, SCEH19]. **Numbers** [FM15]. **Nutrition** [KG17]. **Object** [JYB⁺¹⁵]. **Objective** [BvWM18, FBE19, KNH⁺¹⁸, KTJ19, MGT15, PCLP14, TM14]. **Objects** [JYB⁺¹⁵, MF17]. **Oblique** [SK18]. **Observation** [LKHU14, NHK16, RLPK15]. **Observations** [IO19]. **occurrence** [CBCL15]. **Octave** [YDZ19]. **Off** [SLJ18, ACRS14]. **Off-Grid** [SLJ18]. **Offset** [BBM17, WD16]. **On-Bird** [SBG17]. **On-the-Fly** [EDO17]. **One** [DTN⁺¹⁴, ED18, MJJ⁺¹⁴, SMB18]. **One-Dimension** [MJJ⁺¹⁴]. **One-Dimensional** [SMB18]. **One-to-Many** [DTN⁺¹⁴]. **Online** [AA17, AKN⁺¹⁶, BH18, CH15, DBN⁺¹⁷, ESJ17, HIA⁺¹⁷, LSW18, LSDM19, LGGH19a, MX17, MP16, SGH15a, TMH⁺¹⁴, YK14, ZHB⁺¹⁸]. **Only** [LFU⁺¹⁷]. **Onsets** [Lin18]. **Ontologies** [JHLK18]. **OOV** [HBF⁺¹⁶, SFIL17]. **Open** [Ano14-82, Ano14-83, Ano14-84, Ano14-85, Ano14-86, Ano14-87, Ano14-88, Ano14-89, Ano15-71, Ano15-72, Ano15-73, Ano15-74, Ano17-70, Ano17-71, Ano17-72, Ano17-73, Ano17-74, Ano17-75, Ano17-76, Ano17-77, Ano18-43, Ano18-67, Ano18-68, Hac14]. **Opening** [KKGH16]. **Operated** [ISZA15].

Operator [KPH15]. **Operators** [MSB18, SH17b]. **Opinion** [MSFK15, YJX19, ZWX15]. **Opportunities** [Li15]. **Optimal** [AR16, FWF17, HCJT15, JBC16, NHK16, NJC16b, SKH⁺15a, Wid19, YEY17]. **Optimization** [ABA17, BC17, CFMM14, DvWDM14, FWT⁺18, GEC15, GDC19, GY14, GG18, HKHJS15, JEP14, KHHJ19a, LZC⁺14, RBR16, SH19, SLK17, TK14, TR14b, YHO⁺17, ZCQ⁺19]. **Optimized** [HGT15c, MKA16, MK16]. **Optimizing** [BA16, BY15]. **Option** [FNM⁺19]. **Order** [BBAS19, BBJ18, CM18, CASZ17, HB17, Hel14, MIYO14, PCB16a, SAP14, TC19, WCY15, WC16a, vMM14, NCC15]. **Organization** [yLSY⁺14]. **Orientation** [GI15, TC19]. **Oriented** [LXS⁺18, WYH⁺15]. **Orthogonal** [DMVP16, MJZ15, SOF15, XNP⁺18]. **Orthonormal** [VDC⁺17]. **Other** [DSMD15, ZP15]. **our** [DRFO14]. **Outcome** [MHB⁺18]. **Outdoor** [SMSV17]. **Outlier** [CWDA17]. **Output** [CD17, NYS17]. **Over-Determined** [OG14, WRC16]. **Overlapped** [CDLX18, SH17b]. **Overlapping** [LWZ⁺14, YB14, Ziv15]. **Overview** [LDGHU14, RLS⁺18, WC18a].

Packet [ISZA15, LC16a]. **Packets** [FZZ⁺15]. **Page** [Ano17c, Ano14i, Ano14j, Ano14k, Ano14l, Ano14m, Ano14n, Ano14o, Ano14p, Ano14q, Ano14r, Ano14s, Ano14t, Ano14b, Ano14c, Ano14d, Ano14e, Ano14f, Ano14g, Ano14h, Ano15n, Ano15o, Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano17b, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano19b]. **Pair** [CBCL15]. **Pairing** [ZGO19]. **Pairwise** [CL14b, ZZN⁺16, ZHZ19]. **Palate** [VAP19]. **Panned** [CHJ14]. **Panning** [FWF17, MF18, MGF18]. **Parallel** [CE14, HSM19, JJB16, KKTH19, NTM16, RVB14, ZB14]. **Parallel-Data-Free** [HSM19]. **Parameter** [SLW15, XGKM18]. **Parameterization** [DV14a, NTY19, SAPB15]. **Parameters** [EGMN16, GTS⁺19, HHMK18, KHHJ19b, PCLP14, WCY15]. **Parametric** [AJB⁺18, CRVB⁺15, DLG18, HSK17, HL18, JBTA19, KK19b, LS14b, MJJ⁺14, Nos16, NAK⁺17, PLZL17, STS18, SMB18, TTB⁺16, TTH14, WTY18]. **Parametrization** [VDM15]. **Parity** [XDH⁺17]. **Parkinson** [NRČR14]. **Parse** [SKK14]. **Parsing** [CZZ15, LZC⁺14, ODSM16, WYH⁺15, YZL⁺18]. **Part** [SD16a, DV14a, DV14b]. **Partial** [HL15, MD18]. **Particle** [HHMK18, KHCW15, WRKG17, ZCY16, ZG16, ZCYZ18, ZH15]. **Partitioned** [BvWWM17]. **Partitioned-Block** [BvWWM17]. **Parts** [MFG15]. **Party** [BSL15]. **Pass** [Hel14, QMS16]. **Patchwork** [NXH⁺17, XNG⁺14]. **Patchwork-Based** [NXH⁺17, XNG⁺14]. **Path** [AKN⁺16, GLQ16, GdC14, LGHG17, MX17, NR14a, ZHB⁺18, ZQZH19]. **Paths** [LLWJ16, SD16b, SD16a]. **Pattern** [ATS18, DTL15, WWS⁺18, YK17]. **Patterns** [PBC16, PHM⁺16, RHvdP⁺16, WsL15]. **Pausal** [PM19]. **PCFG** [ZWCT15]. **Pearson** [KSU⁺19]. **PEFAC** [GB14]. **PEM** [GCvWMJ14, BvWWM17]. **PEM-Based** [BvWWM17]. **Penalty** [KD17]. **Perception** [NNL15, SWZ16]. **Perception-Based** [NNL15]. **Perceptual** [ACB17, ISZA15, JSR16, MGT15, SMA⁺17, VDM15]. **Perceptually** [IC19, MJ18]. **Percussive** [LKPR18, PSL17, TOKS14, TOS14]. **Perfect** [CCR16]. **Performance** [BC17, DC16, HDG16, HZF18, MTS⁺19, PCB14, PSL⁺16, SH14b, SSKP16, WDDL18,

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Radial [ATP16]. **Radiance** [BRD15]. **Radiated** [XWWW18]. **Radiativity** [MSS17]. **Radius** [JEP14]. **Random** [yLsL14, NYD17, PMMM15, SAK16, YLL15, ZH15]. **Randomization** [BF18]. **Randomized** [ZH14]. **Rank** [BIK⁺18, CJ15, EIPB⁺19, GQXZ19, HOF15, PKA14, PCB16b, SLGZ15, SMVW14]. **Rank-Based** [PCB16b]. **Ranking** [LXS⁺18, ZLLS16]. **RANSAC** [TS14]. **Rao** [SGH17b, WCY19]. **Raphson** [FB19]. **Rapid** [DKO⁺18, KWGW17, VTN15, XLLY18]. **Rate** [AHH⁺19, BBM17, CLAG16, CHC⁺14, JBTL15, LJK17, LCWC16, SH14b, SKH⁺15b, WD16, ZG16, ZHH18]. **Rate-Constrained** [AHH⁺19]. **Rate-Controlled** [LCWC16, CHC⁺14]. **Rate-Distributed** [ZHH18]. **Ratio** [BA19, CASZ17, CC14b, SAC17, SK15, WWW16, XGKM19]. **Rational** [WTHJ14]. **Ratios** [CWW14]. **Raw** [DQY18, JBTA19]. **Ray** [MAST15, MAB⁺16]. **RBM** [SP16]. **Re** [PS17]. **Re-Estimation** [PS17]. **Reach** [DRFO14]. **Reading** [PLT⁺18]. **Real** [AAA19, HZF17, NNS16, SK17]. **Real-Time** [NNS16, SK17]. **Real-Word** [AAA19]. **Realistic** [SP15]. **Reality** [RG15b]. **Reallocation** [ZSIA16]. **Receptive** [CE15, WWS⁺18]. **Recognition** [AHMJ⁺14, AZK15, Abd18, AB18, AS17b, ACRS14, AZGN14, BVGV15, BDV⁺14, BHS⁺16, BSWP18, CM15, CLW⁺16, CWYC17, CDLX18, CLW⁺19, CB14, CL14b, CL17b, CL18c, DHD⁺19, DXZ⁺18, DB15, DCLHJ18, DH14, ESVK17, FLMS16, FNM⁺19, GFG⁺14, GDC19, GI15, GBH16,

GH17, GJ17, HLL15, HYT⁺15, HHC16, JK19, KGP14, KS16, KCMW17, sLGyLaC15, LKHU14, LWZ⁺14, LDGHU14, LS14a, LWZZ16, LH14, LS14b, LK16, LB19, LGR14, LR17, MWT16, MK15a, MHD⁺17, MC17, MH16, MAK15, MKA16, MTS⁺19, NYD17, NW14, NXCL16, OHN16, PSL⁺16, QTY16, QBTY16, RH18, RWF16, SAB16, SV17, SP16, SWW⁺17, SAS17, SFIL17, SBM⁺19, SHDG16, SSKP16, SLK17, SKM17, SKAK16, SAK16, SBG17, SLW15, TD16, TQH⁺18, TLWV17, TB18, TR14a, TDL19, WS14, WW16, WWS⁺18, WLT⁺18, WWLL14, WYSD15, WL19, XDH⁺17, XHS⁺18, XLLY18, XAHJ⁺14, YTWB19, ZF14]. **Recognition** [ZCDS15, ZH18, ZJD⁺15]. **Recognizing** [XDC⁺17, YsL15]. **Recommendation** [HPB15]. **Reconstruction** [GCG⁺17, KFH⁺14, KG14, PBS17, SB18, WFN⁺18, XWWW19]. **Reconstructions** [NLL⁺18]. **Recording** [KFH⁺14, LCLM18, NHK16]. **Recordings** [AS17a, DM16, KG16, NCC15, SBG17, TS16, WED17]. **Recovery** [HLL15, MBD18, PK15, SAA15]. **Rectangular** [DAMvW15]. **Recurrent** [CLC⁺15, CLW⁺16, DHD⁺19, DAGS⁺18, GAPGG19, HKHJS15, KK19a, KYTJ17, LTWT17, LAGD18, LCW⁺16, MDY⁺15, NTA15, SF18, SNS15, TWZ⁺18, TLWV17, YMM19, ZXSD17, rPH⁺17]. **Recurrent-Neural-Network-Based** [LTWT17]. **Recursive** [DWX⁺16, DG15, EIPB⁺19, RG17, SG14, hShWsL15]. **Reduced** [GTV19, HL14, PCB16a]. **Reduced-Order** [PCB16a]. **Reduction** [AHH⁺19, AM16, AM18b, BH18, CZ17, DST⁺19, Emu18, HBLC14, JTHN14, JBC16, KD16, LPHCB14, LGGH18, MHD15, MHGD15, MD18, MBTB14, NWM16, RBBG15, SM14, SGM⁺15, SEM⁺14, SGH15b, SGH16, SGH17b, SGH17c, SMVW14, SK18, SBVM16, TM16, TK14, YKPMP18, ZCHH18, ZHH18]. **Reference** [JJB16, SSFP18]. **Reference-Free** [SSFP18]. **References** [SLOVB15]. **Referencing** [FFSS17]. **Refinement** [ÇOH18]. **Refining** [YWLZ18]. **Reflecting** [SMSV17]. **Reflection** [MKA⁺14]. **Reflections** [TP15, Ter16]. **Reflector** [RJCW17]. **Regression** [CDLL19, DHSG15, DTDL16, GR14, GHAP17, HGAPB15, JRA17, KK19a, LS14b, MAL18, PMMM15, QDSL19, WS14, XDDL15]. **Regression-Based** [WS14]. **Regressive** [HBB17]. **Regularity** [SBV17]. **Regularization** [ADM⁺19, DC16, KHTL18, LGTG16, LGHG17, RHvdP⁺16, VRN18, WGR⁺18, ZWCT15, ZZLZ19]. **Regularized** [BCB15, STBC17]. **Regularizing** [ZTWW19]. **Reinforcement** [CCT⁺19, CH14, LCW⁺18, WBSG18]. **Reject** [FNM⁺19]. **Related** [BKK15, BHAMR19, GSA18, LFH⁺15, MBM15, PAB19, RF19]. **Relation** [FFSS18, FWF17, LWL⁺19, LLWJ16]. **Relations** [LWJ19]. **Relationship** [KTJ19, YLLC19]. **Relationships** [MVH16]. **Relative** [CB14, FPTJ17, FPTJ18, KMG15, SGH15b, ZHH19]. **Relaxation** [YLJ16]. **Relaxed** [KHHJ19a, LZHN14]. **Relevance** [LZ16, LCC⁺15]. **Relevant** [IC19]. **Remote** [SBVM16]. **Reorganization** [MBTB14]. **Repeated** [JFG⁺17]. **Repeats** [NNS16]. **Representation** [AGW15, ADM⁺17, BA19, BHAMR19, CHL⁺19, CWBv19, DDZL19, LLL⁺19, MBD⁺15, PKA14, Rak17, SAS17, SZL19, SKH⁺15b, VML14, WVCL14, ZKA15, ZPP15]. **Representation-Based** [AGW15]. **Representations** [ADGE19, BV17, CZZ15, CSAR⁺14, DSMD15, MMCF18, PHM⁺16, RG15a, SY15, YCLS17, YGV14, ZXH⁺16, vHK14]. **Representing** [WLL15b]. **Reproduction** [DRK18, HGT15a, HGT15b, JSR16, JK15, KBV16, KBV17, KFH⁺14, SR14, SvWRK15, TZA14, UKS19, VDM15, ZA14]. **Reranking** [SKK14]. **Rescoring** [LCW⁺16].

Reshaping [MJ18]. **Residual** [Emu18, RBBG15, TQH⁺18, TCW19, WVCL14]. **Resilient** [YBC⁺14]. **Resolution** [BP14, DTDL16, KKGH16, PP19, RARR15, RF19, SKH⁺15b, TOS14]. **Resource** [Ano16-48, Ano16-49, CM15, HLL15, HOF15, LGR14, SV18, YTWB19, YGS19]. **Resource-Limited** [HLL15]. **Resources** [DBM15, NNC19]. **Response** [ADM⁺17, BWH18, CCR16, ÇOH18, KBT19, LXS⁺18, TWSS16, XSL⁺19]. **Responses** [BA16, DMP⁺18, KB14, MCD14, TP15, Ter16, VDC⁺17]. **Restoration** [DM16, KSK⁺15]. **Restricted** [NTA15, NTM16, NTY19]. **Results** [MBK17]. **Retrieval** [ARSLN16, KSL19, yLsL14, sLGyLaC15, LCW⁺18, PDS⁺16, RRdM16, VML14, ZXH⁺16]. **Reverberant** [AGBC14, CW18, CASZ17, DW17, DPHG18, FSA18, FSO17, FK19, JWLF14, LKHU14, MMB17, MGGK17, SAC17, SWCN19, VBY18, WRK18, ZW17, ZWW14, ZWW15, ZWW19]. **Reverberation** [BRD15, BKS⁺18, CS19, DBN⁺17, HCJT15, KD18, KDJJ16, KDJJ17, LBR16, LYN14, Lin18, NR14a, PLZL17, SH14a, SH14b, SGH17b, XGKM19]. **Reverberation-Robust** [Lin18]. **Reverberator** [PCLP14]. **Reverse** [DM16]. **Reversion** [RJCW17]. **Review** [MSRND14, WDS⁺18]. **Reviewers** [Ano14-81, Ano15-70, Ano17-67, Ano18-66]. **Rhythm** [GKC16, HS15, MFG15, NYS17, RDP14]. **Rhythm-Based** [RDP14]. **Rich** [SKK14, YZW⁺18, ZP15]. **Riesz** [AS15]. **Risk** [CY15]. **RLS** [CC15, ZN14]. **RNN** [GG18, NTA15, SSK17]. **RNN-Based** [GG18, SSK17]. **Robot** [TR14b]. **Robots** [TR15]. **Robust** [AV16, AS17b, AM18b, ATP15, ABKP19, BC17, BC18, BE17, BCB15, CBA⁺15, CCR16, CZ17, DSH18, GMH14, GWG⁺14, GI15, GBH16, GCvWMJ14, GAPGG19, GB14, GJB15, HAGSZ16, HH14, HCBY18, HIA⁺17, HHC16, IY16, JFG⁺17, KGP14, KAJC16, KK19a, KS16, KD17, KMG17, KSHH18, KHHJ19b, LWZ⁺14, LDGHU14, LS14a, LM15, LMC17, LZHN14, Lin18, Lin19, MMB17, MGB18, MPAEBLB15, MPC16, MMCF18, May18, MZX⁺15, MAK15, NW14, NXCL16, Non14, PCB16a, QTY16, QBTY16, QCDW17, MG18, RH18, SH14a, STH⁺18, SDF18, SBM⁺19, SW16, SKM17, SLW15, TD16, TQH⁺18, TMM18, TMMZ18, TZZ⁺15a, TWSS16, TVJ15, TMKO17, TS16, TDL19, WW16, WED16, WYH17, WCCB19, WZW19, XNG⁺14, YGV14, YLY15, ZZH16, ZBC14, ZWW14, ZCQ⁺19, dICSVAGAPM15, VZC14]. **Robustness** [CH18, HGT15c, NW15, SK16a]. **Role** [DBM15]. **Roles** [YW14]. **Rolling** [CDA⁺14]. **Room** [ADM⁺17, BWH18, BA16, BGQO⁺17, BHBS16, BS14, CCR16, DHCS15, DAMvW15, EGMN16, FdDARF16, HB17, KB14, MCD14, MNFGO19, SAPB15, SRH15, SWCN19, TZA14, TP15, Ter16, VDC⁺17, XGKM18, YB14, vMM14]. **Rotating** [MXNB19]. **Rotation** [MGF18, RF19]. **Rule** [ZP15]. **S1.11** [YLJ16]. **Safe** [FNM⁺19]. **Sample** [Bre15, WBSG18, ZDLK18]. **Sampling** [BBM17, BKK15, BHAMR19, WD16]. **Savitzky** [KMG17]. **Scalable** [MK16, VDC⁺17, XO16]. **Scale** [CL14b, WCC⁺15]. **Scale-Frequency** [WCC⁺15]. **Scattered** [WCCB19]. **Scattering** [DHCS15]. **Scenario** [ZWX15]. **Scenarios** [HOF15, LH14]. **Scene** [ATS18, BSER17, IO17, IO19, MF17, PHM⁺17, RG15a, Rak17, RVB⁺17, YK17, ZW19, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57]. **Scenes** [LLR⁺16, MHB⁺18, SMA⁺17, SMSV17, TMKO17]. **Scheduled** [PCG17]. **Scheduling** [AA17]. **Scheme**

[BKK15, CM18]. **Schemes** [FFSS17, FdDARF16, vMM14]. **Score** [CJ15, DM16, HXWS15, KH16, KNH⁺18, LD16, NNS16, TMM18, WED17]. **Score-Aging** [KH16]. **Score-Informed** [DM16, WED17]. **Scores** [VMOL16, YWLZ18]. **Scoring** [CJ15, Cum15, CL18b]. **Screams** [SK16b]. **Search** [HBF⁺16, OR16a, YGS19, ZP15, ZPD19]. **Second** [TC19]. **Second-Order** [TC19]. **Secondary** [AKN⁺16, GLQ16, GdC14, MX17, WAS16, ZHB⁺18]. **Secondary-Path** [GdC14, MX17]. **Section** [LFH⁺15, RVB⁺17]. **Segment** [WLL⁺15a]. **Segmental** [MAP14, ZGO19]. **Segmentation** [BSL15, BSL16, BD16, CMY16, CHL⁺19, DP16, KJG16, KXS⁺19, NJC16b, SBV17, TQW⁺15, ZYF18, ZZL⁺19]. **Segments** [PHMB18]. **Segregation** [JWLF14]. **Selecting** [WLT⁺18]. **Selection** [BY15, CHWL14, KNH⁺17, LAK16, NAK⁺17, TWZ⁺18, WUF⁺18, XYH14, ZCF14, ZCHH18, ZHZ19]. **Selective** [TH16]. **Self** [GQXZ19, HWRC15, KKGK18, SAA15]. **Self-Attention** [GQXZ19]. **Self-Informed** [KKGK18]. **Self-Localization** [HWRC15]. **Self-Recovery** [SAA15]. **Semantic** [AVK⁺15, BM15, DBM15, FGQ⁺15, HM14, KSL19, yLsL14, yLSY⁺14, SFIL17, WTHJ14, YW14, YHC19, YZW⁺18, eUY⁺18]. **Semantic-Key-Controlled** [YZW⁺18]. **Semi** [LGTG16, LGTG17, LAK16, LS14b, SBN⁺19, WXZ⁺19, ZB14]. **Semi-Parametric** [LS14b]. **Semi-Supervised** [LGTG16, LGTG17, LAK16, SBN⁺19, WXZ⁺19, ZB14]. **Semidefinite** [BC17, SD16a]. **Semispontaneous** [HWC⁺17]. **Semisupervised** [DXZ⁺18, LK16, XHS⁺18]. **Senone** [FLMS16, TMMZ18]. **Senone-Based** [FLMS16]. **Senones** [JSMD18]. **Sensing** [Chi15b, KMM⁺18, MCD14, WLL⁺16, WZS14]. **Sensing-Based** [WLL⁺16]. **Sensitive** [CH16]. **Sensitivity** [WCY19]. **Sensor** [AM18a, BBM17, CG17, CPSFC⁺14, GCG⁺17, KSHH18, SHAGPRZ17, WCY19, WRK18, ZHH18, ZHH19]. **Sensors** [HF15]. **Sensory** [BE17]. **Sentence** [CZG⁺15, CWU⁺19, LWL⁺19, LFQL19, MSFK15, MC17, NAK⁺17, OGZ18, PDS⁺16, QWL⁺19, TWZ⁺18, TQW⁺15, WUF⁺18, ZM17]. **Sentence-Level** [CWU⁺19, OGZ18]. **Sentences** [HS15, PLT⁺18, RCL18]. **Sentiment** [CZG⁺15, DJY⁺19, KSH17, LJX⁺16, TQW⁺15, YWLZ18]. **Sep** [SPM17a]. **Separable** [SZVZ16]. **Separating** [MGGK17]. **Separation** [AV16, AJLW14, AGBC14, BXY14, BV16, CONVVC18, CW18, CWW14, CY16, CK19, DW17, DM16, DTDL16, DDNN19, EDO17, FSA18, FSO17, FK19, GVMGO17, GRSP17, HL15, HKHJS15, IY16, IBN⁺18, JSYW16, JVR16, KML18, KSK⁺15, KOS⁺16, KYTJ17, KBGAP⁺16, LKPR18, LBR16, LBR18, LSDM19, LGGH19b, LW19, LDZ19, LCM18, LM19, MBD18, MV19, MMT⁺19, NW14, NW15, NLL⁺18, NV14, NDV18, NLV16, OOK17, OIY⁺14, PSL17, RDP14, RLS⁺18, RJW19, SOF15, SGH17c, SGH17a, SKDN14, SLOVB15, SWCN19, TOKS14, TOS14, TH18, TS14, WWD14, WNW14, WRC16, WDDL17, WC18b, WC18a, WW19, WWW16, WRDP17, YLL15, ZW16b, ZZN⁺16, ZW17, Ziv15, ZPP15]. **Sequence** [CHL⁺19, DDZS17, DSN18, GQXZ19, SZX⁺18, TL19, WL19, WTQ⁺19, YZW⁺18, ZLL⁺19, ZQZH19, ZTWY19]. **Sequence-to-Sequence** [CHL⁺19, DSN18, ZLL⁺19]. **Sequences** [BCA15, CCR16, XNP⁺18]. **Sequential** [FMD14, GLC⁺14, RCL18]. **Session** [LH14]. **Set** [RARR15, TD16, WSY14, ZH15]. **Sets** [MKA16, PAB19]. **Severe** [SAB16]. **Shape** [SKM19]. **Shaping** [KBT19, YHO⁺18, ZTQB19]. **Shift**

[SKSD14]. **Shifting** [HGT15b]. **Short** [HCJT15, KTJ19, LWZZ16, PDS⁺16, VH19, WHQY19, YZLY17, YZW⁺18]. **Short-Duration** [WHQY19]. **Short-Term** [PDS⁺16, YZLY17]. **Short-Time** [HCJT15, KTJ19, VH19]. **Shot** [ASC⁺18]. **Show** [DAFS15]. **Siamese** [ZPD19]. **Sidelobe** [ABvM19, DST⁺19]. **Sign** [KKJN17]. **Signal** [Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano14-40, Ano14-41, Ano14-42, Ano14-43, Ano14-44, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano15-35, Ano15-36, Ano15-37, Ano15-38, Ano15-39, Ano16-27, Ano16-28, Ano16w, Ano16x, Ano16y, Ano16z, Ano17-38, Ano17-39, Ano17-40, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, Ano17-52, Ano17-53, Ano17-54, Ano17-55, Ano17-56, Ano18-44, Ano18-45, Ano18-46, Ano18-47, Ano18-48, Ano18-49, Ano18-50, Ano18-51, Ano18-52, Ano18-53, Ano18-54, Ano18-55, Ano18-56, Ano18-57, Ano18-58, Ano18-59, Ano18-60, Ano18-61, Ano18-62, Ano18-63, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, BvWWM17]. **Signal** [CWW14, DMVP16, EJ16, KSK⁺15, KD17, KHHJ19b, PCW15, RMBK14, SWW⁺17, SNTD19, SK18, SBVM16, VS14, VDM15, YZLY17]. **Signal-Dependent** [DMVP16, KD17]. **Signal-to-Noise** [CWW14]. **Signals** [AKG⁺17, BP14, BSWP18, CT14, ESJ17, HTG14, JD17, LSW18, LJK17, MP16, NWM16, NR14b, SK17, SB18, TOS14, TZZ⁺15a, VM15, WAS14, XNRG15, XGKM19, ZG16, Ziv15, vHK14]. **SII** [HCJT15]. **Silent** [BSWP18, KCMW17, MHD⁺17]. **Similar** [MWT16]. **Similarities** [PHM⁺16]. **Similarity** [BA16, BM15, FMD14, FDK15, yLsL14, OR16a, PHMB18, QWL⁺19]. **Simple** [ZYF18]. **Simplified** [GLQ16]. **Simulating** [LLR⁺16]. **Simulation** [BHBS16, BH19, CFMM14, HB17, Hel14, KBV17, vMM14]. **Simulations** [DAMvW15, SvWRK15]. **Simultaneous** [SM18, TK14, YHO⁺17]. **Singer** [HL15]. **Singing** [CWJ16, DAR16, HL15, Iiy16, KG16, MTBB15, TOS14]. **Singing/Humming** [WJ15a]. **Single** [AM18b, AY15, BXY14, CDLX18, DAFS15, DB18, DBN⁺17, DTDL16, GH17, GRSP17, HSPK18, KG14, LK19, MK15b, MK15c, MBK17, PSL⁺16, SGM⁺15, Ter16, VP17, WFN⁺18, WWD14, WDDL17, WYSD15, WRK18, XGKM19, YKPMP18, YLL15, ZTQB19, ZPP15]. **Single-** [DAFS15]. **Single-Channel** [AM18b, BXY14, CDLX18, DB18, DBN⁺17, DTDL16, GRSP17, KG14, LK19, MK15b, MK15c, MBK17, PSL⁺16, SGM⁺15, WFN⁺18, WWD14, WDDL17, WYSD15, XGKM19, ZPP15]. **Single-Microphone** [YKPMP18, YLL15]. **Single-Stage** [HSPK18]. **Sinusoidal** [AF19, AJB⁺18]. **Sinusoidal-Based** [AF19]. **SiPTH** [MTBB15]. **Size** [AA17, Bre15, CC14a, TM16, ZZH16]. **Sized** [HWC⁺17]. **Sizes** [KKJN17]. **Skips** [NNS16]. **SLAM** [EN18]. **Slavic** [ZP15]. **Sliding** [ZN14]. **Sliding-Window** [ZN14]. **Slot** [MDY⁺15]. **Small** [Bre15, CWH⁺16, HWC⁺17, LR17, TD16, WCCB19]. **Small-Footprint** [LR17]. **Small-Sized** [HWC⁺17]. **Small-Spacing** [WCCB19]. **Smoothing** [HWW16, JC17, RG17]. **Smoothness** [TOKS14]. **SMT** [ARSLN16]. **Snapshot** [Ter16]. **SNR** [AY17, CH15, EMTF17, ET18, HBLC14, KK14, LM15, MK15b, SFK15, SLGZ15]. **SNR-Invariant** [LM15]. **Social** [LTWT17, XHS⁺18]. **Society** [Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano14-40, Ano14-41, Ano14-42, Ano14-43, Ano14-44, Ano15-30,

Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano15-35, Ano15-36, Ano15-37, Ano15-38, Ano15-39, Ano16u, Ano16v, Ano16-27, Ano16-28, Ano16w, Ano16x, Ano16y, Ano16z, Ano17-38, Ano17-39, Ano17-40, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, Ano17-52, Ano17-53, Ano17-54, Ano17-55, Ano17-56, Ano18-44, Ano18-45, Ano18-46, Ano18-47, Ano18-48, Ano18-49, Ano18-50, Ano18-51, Ano18-52, Ano18-53, Ano18-54, Ano18-55, Ano18-56, Ano18-57, Ano18-58, Ano18-59, Ano18-60, Ano18-61, Ano18-62, Ano18-63, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r]. **Society** [Ano19s]. **Soft** [LCSL19, ZH19]. **Soft-Target** [LCSL19]. **Solo** [AS17a]. **Solution** [FB19, PCB15]. **Solutions** [WW15]. **Solving** [SDDCC15]. **Some** [ZP15]. **Song** [DHYG14, HC19]. **Songs** [FDK15]. **Sonority** [SP17]. **Sound** [APH14, AM18a, ADM⁺17, BOL⁺18, BLLP17, BvWM18, CONVVC18, CPSFC⁺14, ÇOH18, DCZ19, DTC17, DHP14, EJ16, FPTJ17, FPTJ18, HWT⁺17, JC17, KMM⁺18, KBV16, KBV17, KNH⁺18, KSU⁺19, KMG17, KXS⁺19, LLR⁺16, LGTG16, MGB18, MSS17, MJ18, MBM15, MAB⁺16, MSB18, MZX⁺15, MDE⁺19, MNFGO19, NV14, NDV18, NHK16, OR16b, OFF⁺17, OIY⁺14, PS19, PLZL17, PSL17, PCG17, RBR16, RVB⁺17, SSKP16, SPM17a, SPM17b, SBG17, TOKS14, TOS14, TH14, TH16, UKS19, VDM15, WWS⁺18, WAS16, WSFS19, YLPL19, ZA14, ZPD19, rPH⁺17, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57]. **Sound-Field** [KMM⁺18]. **Sound-Quality** [BvWM18]. **Soundfield** [DRK18, JK15, MAST15, TZA14]. **Sounds** [CDA⁺14, TMKO17, ZH19]. **Source** [AV16, APH14, AM18a, AJLW14, ATP16, AB14, AB15, CBA⁺15, CONVVC18, CW18, CZY⁺18, CS19, CY16, CK19, ÇOH18, DCZ19, DDNN19, EDO17, FSA18, FSO17, FPTJ17, FPTJ18, FK19, GVMGO17, GRSP17, HKHJS15, IBN⁺18, JSYW16, JVR16, KOS⁺16, KNH⁺18, KMG15, LKPR18, LGTG16, LGTG17, LBR16, LBR18, MGB18, MBD18, MV19, MMT⁺19, NV14, NLV16, OOK17, OIY⁺14, PCB14, MG18, RJCW17, RJW19, SOF15, SDF18, SGH17c, SGH17a, SP17, SLL⁺16, SLOVB15, SPM17a, SPM17b, SWCN19, SSS18, TH18, TS14, TWSS16, TE16, VAH19, WWD14, WRC16, WHRC16, WC18b, XWWW19, YLPL19, YZLY17, ZH15, ZPP15]. **Source-Specific** [SLL⁺16]. **Sources** [AKB⁺16, BOL⁺18, BH19, DHSG15, DG15, DTC17, JC17, KNH⁺17, LWZ⁺14, MMB17, MAB⁺16, MGGK17, NDV18, NHK16, OIY⁺14, PHK16, TH18, WCCB19, WAS16]. **Space** [BDL15, CL14a, FGQ⁺15, HB17, KMAB18, LFH⁺15, MAST15, MAB⁺16, MFG15, MBD⁺15, PC19, WZL⁺15, WSH15, ZAZ⁺18]. **Spaces** [WBSG18]. **Spacing** [WCCB19]. **Span** [JBC16]. **Sparse** [AKB⁺16, AGW15, ADM⁺17, ADM⁺19, BV17, BIK⁺18, BHAMR19, BABC19, Chi18b, CDW16, CSAR⁺14, CT14, DBK15, FK19, FWF17, HL14, HOF15, JSYW16, JK15, JvWGD15, KKK15, LG16, PKA14, PAB19, RAB18, SAS17, SZL19, SB18, SLY14, SLGZ15, VDC⁺17, WAS14, WVCL14, YGV14, ZF14, ZKDS18]. **Sparsely** [SMSV17]. **Sparsity** [AGBC14, Bay15, JYB⁺15, LGHG17, ONKP16, TH18, ZZLZ19]. **Sparsity-Based** [TH18]. **Spatial** [ATP16, ABKP19, CONVVC18, CH18, DMVP16, FLB16, HGT15a, HGT15b, HIA⁺17, IO17, IBN⁺18, KMG15, LGHG17, MF17, NV14, OGZ18, PAB19, RKN14, SAC17, TZA14, TH14, TH16, TTH14, VDM15, WW19, WSFS19, YLPL19, ZHH18, ZHB⁺18]. **Spatially**

[ATP15]. **Spatio** [ADM⁺17, JCBJ15]. **Spatio-Temporal** [ADM⁺17, JCBJ15]. **Speaker** [AS17b, CBG15, CL14b, CL17a, CL17b, CL18b, CL18c, DAGS⁺18, DAFS15, DQY18, DPHG18, FL19, FMB16, FNM⁺19, GH17, GHAP17, HH14, HGAPB15, JG19, JJB16, JKU18, KH16, KML18, KCMW17, LGTG18, LCLM18, LM15, LWZZ16, LMC17, LGHG17, LCWC16, LH14, LW19, LCM18, MPC16, MZM15, MH18, MSD14, NTY19, PBQ15, RSR⁺19, RH18, SH14a, SAB16, STH⁺18, SDK17, STT⁺19, SG14, SKAK16, SAK16, TMM18, TMMZ18, TLWV17, TCY15, TMH⁺14, VMOL16, WW19, WHQY19, WZW19, WDD⁺16, XLLY18, YB14, YH17, ZSB17, ZCY16, ZKH18, ZWW14, ZWW15, ZEM18, VZC14]. **Speaker-Adapted** [DAGS⁺18]. **Speaker-Adaptive** [HGAPB15]. **Speaker-Dependent** [NTY19]. **Speaker-Independent** [KCMW17, LCM18]. **Speakers** [Lin18, Lin19, NR14a, SCEH19]. **Speaking** [CHC⁺14, JBTL15, LCWC16, TMH⁺14]. **Special** [Ano16-50, Ano16-51, Ano16-52, Ano16-53, Ano16-54, Ano16-55, Ano16-56, Ano16-57, LFH⁺15, RVB⁺17, SHKB17]. **Species** [JK19]. **Specific** [LWJ19, SLL⁺16]. **Specification** [YLJ16]. **Spectra** [NTY19, SPM17a, SPM17b, SLY14, SKH⁺15a, YDZ19]. **Spectral** [AF18, Bay15, BS14, BKS⁺18, DDNN19, FFSS18, GSA18, GKC16, HWW⁺15, HL18, ISP19, JFG⁺17, JRA17, KD18, KTJ19, KBG16b, LKHU14, LS14a, LGGH19a, MGB18, MD18, MT18, MAT15, MKMDM17, NWM16, PS17, PK15, SH14a, SSK17, SY15, SKH⁺15b, VRN18, WLL⁺15a, WGD15, WW19, ZKDS18]. **Spectral-Amplitude** [KTJ19]. **Spectro** [MD16, NXCL16, SGA15, vHK14]. **Spectro-Temporal** [MD16, NXCL16, SGA15, vHK14]. **Spectrogram** [KSK⁺15, KMG17, PSL17]. **Spectrograms** [AS15, BIK⁺18, BV16, DSMD15, MIYO14, TOKS14, TOS14]. **Spectrotemporal** [ATS18]. **Spectrum** [HGT15a, HHC16, MPAEBLB15, SZL19, SKH⁺15a, TTB⁺16, VM15, XNRG15, XNP⁺18, YLPL19, YMM19]. **Spectrum-Based** [XNRG15]. **Speech** [AHMJ⁺14, AZK15, Abd18, AKG⁺17, AF18, AF19, AGW15, AJB⁺18, AVM19, AS17b, AdHTJ16, AdTJ18, AM18b, AY15, AY17, Ano14-45, Ano14-77, Ano14-54, Ano14-66, Ano14-78, Ano14-55, Ano14-67, Ano14-79, Ano14-56, Ano14-68, Ano14-80, Ano14-57, Ano14-69, Ano14-46, Ano14-58, Ano14-70, Ano14-47, Ano14-59, Ano14-71, Ano14-48, Ano14-60, Ano14-72, Ano14-49, Ano14-61, Ano14-73, Ano14-50, Ano14-62, Ano14-74, Ano14-51, Ano14-63, Ano14-75, Ano14-52, Ano14-64, Ano14-76, Ano14-53, Ano14-65, Ano14a, Ano15-40, Ano15-50, Ano15-41, Ano15-51, Ano15-42, Ano15-52, Ano15-43, Ano15-53, Ano15-44, Ano15-54, Ano15-45, Ano15-55, Ano15-46, Ano15-56, Ano15-47, Ano15-57, Ano15-48, Ano15-58, Ano15-49, Ano15-59, Ano16k, Ano16l, Ano16-32, Ano16-38, Ano16-33, Ano16-39, Ano16-29, Ano16-30, Ano16-31, Ano16-34, Ano16-36, Ano16-40, Ano16-35, Ano16-37]. **Speech** [Ano16-41, Ano16i, Ano16j, Ano17-59, Ano17-60, Ano17r, Ano17z, Ano17s, Ano17-27, Ano17t, Ano17u, Ano17v, Ano17w, Ano17x, Ano17y, Ano17-57, Ano18v, Ano18w, Ano18x, Ano18y, Ano18z, Ano18-27, Ano18-28, Ano18-29, Ano18-30, Ano18-31, Ano18a, Ano19a, Ano19t, AS15, ACRS14, AGBC14, ACB17, AZGN14, BVGV15, BF18, BIK⁺18, BXY14, BA19, BHS⁺16, BE17, BD16, CE15, CSS⁺19, CLAG16, CDLL19, CWW14, CHC⁺14, CHWL14, CRVB⁺15, CM15, CH15, CWH⁺16, CLW⁺16, CMY16, CDLX18, CLW⁺19, Chi18a, CMG⁺17, CWBv19, CTLL17, CH14, DHD⁺19, DP16, DLG18, DW17, DBK15, DXZ⁺18, DTL15, DST⁺19, DB15, DB18, DB19, DTN⁺17, DSN18, DTN⁺14, DBN⁺17, DRK18, DH14,

DTDL16, DSH18, EMTF18, ESVK17, ET18, EZS14, GFG⁺¹⁴, GVMGO17, GDC19, GTV19, GG18, GI15, GBH16, GCJ⁺¹⁴, GCG⁺¹⁷, GJB15, GJ17]. **Speech** [HW14, HWW⁺¹⁵, HBB17, HLL15, HCJT15, HS15, HYI⁺¹⁵, HL18, HWC⁺¹⁷, HM14, HHC16, ISP19, ISZA15, JP14, JFG⁺¹⁷, JD17, JVR16, JT14, JT16, JWLF14, JRA17, JvWGD15, JBTA19, KGP14, KSL19, KNBC19, KML18, KK14, KKK15, KS16, KCMW17, KYTJ17, KTJ19, KK19b, KGH⁺¹⁶, KKGH16, KBG16a, KBG16b, KBG18, KG14, KDJJ16, KDJJ17, LG19, LM17, sLGyLaC15, LC16a, LK19, LKHU14, LWZ⁺¹⁴, LDGHU14, LS14a, LWZZ16, LJK17, LSDM19, LGGH19b, Lin18, LAGD18, LS14b, LCC⁺¹⁵, LK16, LLLL19, LB19, LGR14, LR17, LDZ19, LSH14, LCM18, LM19, MWT16, MPAEBLB15, MJZ15, MK15a, MGGK17, May18, MHD⁺¹⁷, MC17, MH16, MSD14, MD16, MAT15, MDM15, MAK15, MKA16, MTS⁺¹⁹, MK15b, MK15c, MBK17, NTY19, NW14, NW15, NXCL16, NLL⁺¹⁸, NJC16a, NJC16b, Nos16, NAK⁺¹⁷, OHN16, OWA15, PW19, PSL⁺¹⁶, PC19, PK15]. **Speech** [PZP19, PHM⁺¹⁶, PM19, QDSL19, QTY16, QBTY16, RKL14, RWF16, RKN14, RG18, SV17, SP16, SWW⁺¹⁷, STS18, SSFP18, SF18, SDDCC15, SAA15, SM14, SGH15b, SGH15a, SGH16, SBN⁺¹⁹, SKSD14, STBC17, SR14, SAS17, SFIL17, SBM⁺¹⁹, SH17b, SSK17, SKDN14, SKM17, SM18, SLW15, SLGZ15, SZVZ16, SK18, TM14, TTB⁺¹⁶, TQH⁺¹⁸, TCW19, TLWV17, TB18, TH17, TJCB16, TP19, TKT17, TK14, TR14a, TDL19, TE16, VBY18, VM15, VP17, VAP19, WFN⁺¹⁸, WWD14, WS14, WNW14, WCC⁺¹⁵, WLL⁺¹⁶, WW16, WDDL17, WTY18, WB18, WDDL18, WC18a, WLT⁺¹⁸, WTHJ14, WYSD15, WJ15b, WWW16, WW17, WRDP17, WSM19, WHLG14, WZS14, WK16, XWWW18, XLL⁺¹⁹, XDH⁺¹⁷, XGKM18, XGKM19, XDDL15, XDC⁺¹⁷, XAHJ⁺¹⁴, XMBN18, YBC⁺¹⁴, YK14, YB14, YLL15, YTWB19, YGV14, YZLY17, YHO⁺¹⁷, YHO⁺¹⁸, YLLC19, ZCF14, ZH14, ZF14, ZCDS15, ZW16b]. **Speech** [ZG16, ZZN⁺¹⁶, ZW17, ZLF19, ZWW19, ZZ19, ZJD⁺¹⁵, ZSIA16, VZC14]. **Speech-Distortion** [AM18b]. **Speech-in-Noise** [ZSIA16]. **Speech-to-Speech** [DTN⁺¹⁷]. **Sphere** [BKK15]. **Spherical** [AR16, ATP16, CM18, DMVP16, EJ16, FSA18, Hac14, HMN17, HZF17, HZF18, JTHN14, JSR16, JEP14, JC17, NR14a, SSTS18, SAC17, SR14, SvWRK15, TP15, Ter16, VAH19, ZKA15]. **Spiking** [CLAG16]. **Spoken** [Ano16-50, Ano16-51, CTLL17, CL18a, FLMS16, HS15, KG17, yLsL14, yLSY⁺¹⁴, sLGyLaC15, LCW⁺¹⁸, LLW⁺¹⁹, MAP14, MDY⁺¹⁵, RAB18, RV17, SWH⁺¹⁷, SHKB17, SLK17, WWLL14]. **Spontaneous** [HWC⁺¹⁷, WJ15b, WHLG14]. **Spoofing** [DQY18, GAPGG19, QCDW17, WDD⁺¹⁶, YDZ19]. **Spotforming** [TH16]. **Spotting** [WTHJ14, WJ15b]. **Spread** [HGT15c, XNRG15, XNP⁺¹⁸]. **SQuAD** [LLW⁺¹⁹]. **Square** [JT15, KTJ19, ZZH16]. **Squares** [BBM17, EIPB⁺¹⁹, LZHN14, SOF15, SD16b, SH19]. **SR** [LCWC16]. **SR-HPM** [LCWC16]. **SRMR** [SF14]. **SRRank** [YW14]. **Stable** [GCJ⁺¹⁴]. **Stacked** [WK16]. **Stacking** [ZZN⁺¹⁶]. **Stacks** [BWH18]. **Stage** [GTS⁺¹⁹, GRSP17, HSPK18, HZF17, SGM⁺¹⁵, SK16b, SWCN19, ZWW19, TOS14]. **Start** [HSPK18]. **Startle** [DMP⁺¹⁸]. **State** [JHLK18, LB16, MSRND14, PC19, WHLG14, WLL15b, YSCZ15, ZJD⁺¹⁵]. **State-Based** [WHLG14]. **State-Clustering** [ZJD⁺¹⁵]. **State-Space** [PC19]. **Stationary** [BP14, DBK15, LSH14, MPAEBLB15, NJC16a]. **Statistical** [AJB⁺¹⁸, AKN⁺¹⁶, BY15, Bre15, CRVB⁺¹⁵, CZY⁺¹⁸, GJB15, HL18, HSZ⁺¹⁸, JBTA19, KK19a, KK19b, KBG16a, MHPB15, MSD14,

NNC19, NAK⁺17, RLK14, STS18, TTB⁺16, TKT17, TZZ15b, WZL⁺15, WTY18, WTZ18, XZW15, YEY17, ZLLS16, ZDLK18]. **Statistically** [EZS14]. **Statistics** [JSMD18, MKMDM17, NJC16a, OL15, TS14]. **STD** [LCZ⁺19]. **Steerable** [BBAS19, WC16a]. **Steered** [ÇOH18, TWSS16]. **Steering** [SNTD19]. **Steganalysis** [LJK17]. **Steganography** [AGW15, LJK17]. **Step** [AA17, CC14a, CC14b, HZF18, KKJN17, TM16, ZZH16]. **Step-Size** [AA17, CC14a, TM16, ZZH16]. **Step-Sizes** [KKJN17]. **Stepwise** [TL19]. **Stereo** [AJLW14, CHJ14, HTG14, NCC15]. **Stereo-Input** [CHJ14]. **Stereophonic** [HJC19]. **STFT** [KG14, MBD18, PBS17]. **Stimulation** [LWL⁺19]. **Stochastic** [WLL15b]. **Stops** [VAP19]. **Story** [ZH19]. **STRAIGHT** [AJB⁺18]. **Strategies** [HHMK18]. **Strategy** [MX17, MTS⁺19]. **Stream** [AZK15]. **Streaming** [DHP14]. **Streamlined** [PT14]. **Streams** [DSH18, XO16]. **Strengths** [XNP⁺18]. **String** [MSS17]. **Strings** [SAK16]. **Strong** [OWA15]. **Structural** [SBV17, ZKDS18]. **Structure** [KHCW15, TP16, ZZZ16, ZLJ⁺17, eUY⁺18]. **Structured** [AGBC14, CCT⁺19, CL18a, KWGW17, KKK15, PPSG17, RCL18, ZKDS18]. **Structuring** [yLSY⁺14]. **Student** [ISZA15, TDL19, CS19, LBR18]. **Studio** [ES16]. **Study** [CWW14, CFMM14, FLMS16, GSA18, HF15, KBV17, PCB14, SKSD14]. **Style** [GKC16, NLL⁺18, WWLL14, ZPD19, VZC14]. **Sub** [CL14a, RARR15]. **Sub-Set** [RARR15]. **Sub-Space** [CL14a]. **Subband** [CD17, FZZ⁺15, GLQ16, KKJN17, KGH⁺16, Lin19, PPSG17, SM14]. **Subbands** [MBM15]. **Subglottal** [MVH16]. **Subharmonic** [IYY16]. **Subject** [Ano17a, RF19, Wid18, Wid19]. **Subjected** [TM14]. **Subjective** [BvWM18, Bre15, FBE19, GTV19, PCLP14]. **Subset** [ZCHH18]. **Subspace** [GR14, LM15, LGR14, ONKP16, RAB18, SK18, XDC⁺17, YZLY17]. **Subtraction** [KMG15, SK18]. **Subtree** [SKK14]. **Subword** [FL19, HBF⁺16, HSN18, ZZL⁺19]. **Sum** [CPSFC⁺14, ZH14]. **Summarization** [CLC⁺15, CLCW18, GLC⁺14, LCC⁺15, RRdM16, WYH⁺15, YW14, ZZZ16, ZZLZ19]. **Summarizing** [BSL16, HNY⁺15, HC19]. **Summation** [IYY16]. **Super** [CY15, McL14, RG18]. **Super-Audible** [McL14]. **Super-Gaussian** [CY15, RG18]. **Superconductivity** [Ano17a]. **Superdirective** [BCB15, CT14, PCB16a]. **Supergaussian** [RBBG15]. **Superpositional** [TG16]. **Supertags** [ODSM16]. **Supervised** [GFG⁺14, LGTG16, LGTG17, LAK16, LCTA19, Rak17, RV17, SBN⁺19, SK16b, SCEH19, WNW14, WsL15, WC18a, WXZ⁺19, YLL15, ZB14]. **Supervision** [DJY⁺19]. **Support** [CL14b]. **Supported** [EMTF18]. **Suppression** [TZZ⁺15a, WLT⁺18, XWWW18]. **Suprasegmental** [SP17]. **Surface** [MVH16]. **Surnames** [ZP15]. **Surpassing** [LM19]. **Survey** [SWH⁺17]. **Sustained** [LD16]. **SVD** [ZCQ⁺19]. **SVD-Based** [ZCQ⁺19]. **Swarm** [WRKG17]. **Switched** [YsL15]. **Switching** [AVK⁺15, ISP19, WLLZ17, WSY14, WSH15]. **Syllable** [CGL⁺15, WHLG14]. **Syllable-Context** [CGL⁺15]. **Symbolic** [OL15]. **Synchronization** [CG17, XNG⁺14]. **Synchronous** [SM18, VAP19]. **Syntactic** [AVK⁺15, XWZ16]. **Synthesis** [AF19, AJB⁺18, AG17, ADGE19, BRD15, BGQO⁺17, BABC19, CHWL14, CRVB⁺15, CWH⁺16, CDA⁺14, DHCS15, DLG18, FFSS17, FFSS18, GDM18, HL18, HWC⁺17, JBTA19, KK19b, MSS17, MSD14, MDM15, Nos16, NAK⁺17, OR16b, PM19, STS18, SSK17, SLH17, TTB⁺16, WTY18, WAS16, WWH⁺18, WSFS19, WHLG14, WK16,

YHO⁺17, YHO⁺18]. **Synthesized** [YGS19]. **Synthesizer** [CMG⁺17]. **Synthesizing** [RHvdP⁺16, YLLC19]. **Synthetic** [ARSLN16, EZS14, LWL⁺19]. **System** [JZJØ19, KBV17, KG17, yLSY⁺14, LAK16, LG16, MTS⁺19, MGT15, ODG16, PS17, PBC18, RBR16, SGM⁺15, SP17, SBVM16]. **Systematic** [YLJ16]. **Systems** [AA17, Ano19c, AZGN14, BLLP17, CE14, Chi18a, CB14, EIPB⁺19, HHMK18, KG19, LK19, LC16b, LSYN19, MSFK15, MMMDL⁺14, MSD14, RLK14, SSK17, WBSG18, WLL15b, XWZ16, YLJ16].

T [LK19]. **Tablature** [MFG15]. **Table** [Ano14-92, Ano14-93, Ano14-94, Ano14-95, Ano14-96, Ano14-97, Ano14-98, Ano14-99, Ano14-100, Ano14-101, Ano14-102, Ano14-103, Ano14-104, Ano14-105, Ano14-106, Ano14-107, Ano14-108, Ano14-109, Ano14-110, Ano14-111, Ano14-112, Ano14-113, Ano14-114, Ano15-75, Ano15-76, Ano15-77, Ano15-78, Ano15-79, Ano15-80, Ano15-81, Ano15-82, Ano15-83, Ano15-84, Ano15-85, Ano15-86, Ano15-87, Ano15-88, Ano15-89, Ano15-90, Ano15-91, Ano15-92, Ano15-93, Ano16-58, Ano16-59, Ano16-60, Ano16-61, Ano16-62, Ano16-63, Ano16-64, Ano16-65, Ano16-66, Ano16-67, Ano16-68, Ano16-69, Ano16-70, Ano16-71, Ano16-72, Ano16-73, Ano16-74, Ano16-75, Ano17-99, Ano17-78, Ano17-79, Ano17-80, Ano17-81, Ano17-82, Ano17-83, Ano17-84, Ano17-85, Ano17-86, Ano17-87, Ano17-88, Ano17-89, Ano17-90, Ano17-91, Ano17-92, Ano17-93, Ano17-94, Ano17-95, Ano17-96, Ano17-97, Ano17-98, Ano18-80, Ano18-81, Ano18-82, Ano18-83, Ano18-84]. **Table** [Ano18-85, Ano18-86, Ano18-87, Ano18-88, Ano18-89, Ano18-90, Ano18-69, Ano18-70, Ano18-71, Ano18-72, Ano18-73, Ano18-74, Ano18-75, Ano18-76, Ano18-77, Ano18-78, Ano18-79, Ano19-31, Ano19-32, Ano19u, Ano19v, Ano19-33, Ano19w, Ano19-34, Ano19x, Ano19-35, Ano19y, Ano19z, Ano19-27, Ano19-28, Ano19-36, Ano19-29, Ano19-30]. **Tables** [BTD⁺19]. **Tagging** [LZC⁺14, LCZ⁺17, XHW⁺17, YZL⁺18, ZYF18]. **Tailoring** [ZZY19]. **Taking** [SWZ16]. **Talk** [GCvWMJ14]. **Talker** [LW19, WYSD15, WRKG17, YLL15]. **Talker-Independent** [LW19]. **Tandem** [OOK17]. **Tangential** [HF15]. **Tap** [CC14a]. **Tap-Length** [CC14a]. **Tapped** [HL14]. **Target** [ABKP19, DDZL19, FZZ⁺15, GTV19, KNH⁺17, LCSL19, MGB18, PCBS19, ZWX15]. **Target-Dependent** [DDZL19]. **Targets** [BSR17, WNW14]. **Task** [FOBP15, WYH⁺15, YM17, YJX19]. **Task-Oriented** [WYH⁺15]. **Tasks** [DB15, PM15, RRdM16]. **TasNet** [LM19]. **TDAC** [CRH⁺14]. **TDNNs** [SMA⁺17]. **TDOA** [SSS18, LGTG18]. **TDOA-Based** [SSS18]. **Teacher** [TDL19]. **Teager** [ISZA15, KPH15, SH17b]. **Technical** [DRFO14]. **Technique** [CC14b, ODG16, SLY14]. **Techniques** [CLC⁺15, HWW16, RG15b, SSK17]. **technology** [Ano14-115, Ano14-116]. **Telephone** [JMD⁺17, JRA17, SKSD14, VP17]. **Tempo** [GKC16, PT14]. **Temporal** [AY17, ADM⁺17, HS15, JCBJ15, LB16, MD16, NTA15, NXCL16, SGA15, SY15, SWZ16, TWC⁺18, VRN18, YK17, vHK14]. **Temporally** [LS14b]. **TEND** [DDZL19]. **Tensor** [BV16, BOL⁺18, MH16]. **Term** [CTLL17, CL18a, LLL⁺19, MAP14, MMCf18, MKMDM17, NR14b, PDS⁺16, RAB18, YB14, YZLY17, ZLJ⁺17]. **Terms** [YJX19]. **Test** [LLW⁺19, NR14a]. **Tests** [Bre15]. **Text** [BTD⁺19, CMY16, Chi18a, sLGyLaC15, MYT⁺19, PM19, STT⁺19, SKAK16, SAK16, SLH17, VBY18, WLLZ17, WHQY19, WDD⁺16, YZW⁺18, YLLC19, ZP15, ZSB17, ZKH18, ZZL⁺19]. **Text-Dependent** [STT⁺19, SKAK16, SAK16, ZSB17].

Text-Independent[CMY16, WHQY19, WDD⁺16, ZKH18].**Text-to-Speech** [Chi18a, PM19, VBY18].**Texts** [AAA19]. **Textual** [BM15]. **Texture**[OR16b]. **TF** [YLPL19]. **TF-Wise**[YLPL19]. **Their**[JSMD18, PHM⁺16, SH14b, TR14a].**Theoretic** [FDK15]. **Theoretical**

[AZGN14, Hac14, HMDG15, HF15,

MHGD15, PCB15, TR14b]. **Theoretically**[JT15]. **Theory**[JSR16, JK15, QDSL19, WZS14]. **Three**

[ADGE19, KBV17, UKS19, WCY19, ZA14].

Three-Dimensional

[ADGE19, KBV17, UKS19, WCY19].

Thresholding [ISZA15]. **Throat**[STH⁺18, TE16]. **Throat-Microphone**[TE16]. **Tied** [CL18b]. **Tilt** [JRA17].**Timbre** [ARW⁺16]. **Time** [APH14, AM16,

BP14, BHBS16, CONVVC18, GEC15, HB17,

HGT15b, HCJT15, HGT15c, IC19, KB14,

KTJ19, KXS⁺19, KBGAP⁺16, LG19, LM19,

MAP14, MTBB15, NNS16, PW19, RG15a,

SK17, STT⁺19, SH17a, SH14b, TZZ⁺15a,

VH19, WZW19, WW17, WZS14, XWWW18,

XGKM19, ZSIA16, ZH15].

Time-Contrastive [STT⁺19]. **Time-Delay**[APH14]. **Time-Domain**[XWWW18, WZS14]. **Time-Frequency**[AM16, BP14, TZZ⁺15a, WZW19, WW17].**Time-Shifting** [HGT15b]. **Time-Spread**[HGT15c]. **Time-Varying**[KBGAP⁺16, LG19]. **Tissues** [ZH19].**TOEFL** [LLW⁺19]. **Together**[Ano14-115, Ano14-116]. **Tokens**[CTLL17, CL18a]. **Tonal** [DDZS17]. **Tone**[LCSL19]. **Tones** [LCSL19]. **Tongue**[SLH17]. **Topic** [CWU⁺19, DJY⁺19, IO19,LJX⁺16, WTHJ14, XZW15, ZM17].**Topic-Aware** [ZM17]. **Topic-Based**[XZW15]. **Topics** [Chi18b, GLC⁺14].**Topology** [KSHH18]. **Total**[MBD⁺15, SLL⁺16]. **Tracker** [JHLK18].**Tracking** [AHSS⁺18, BLLP17, HAGSZ16,

HW14, LGTG18, Lin19, NDV18, SG14,

TH18, TCY15, TP19, TS14, WRKG17,

YSCZ15, ZDG14, ZCY16, ZH15]. **Tract**[ADGE19, SMH14, SMB18]. **Tracts** [AG17].**Tradeoff** [JTHN14, JSR16]. **Traditional**[DSMD15]. **Trained**[HSPK18, NTA15, WL19, ZF14]. **Training**[CLLD14, CLW⁺16, CH16, CL14b, DH14,

GTV19, HXWS15, KYTJ17, LAK16, May18,

MTM15, NTM16, NW15, QTY16, QMS16,

SV18, hShWsL15, TQY16, TLWV17,

WNW14, WW16, WJ15b, WK16, XWZ16,

VZC14]. **Trait** [SWZ16]. **Trajectory**[LS14b, WK16]. **Transactions**

[Ano14-45, Ano14-77, Ano14-54, Ano14-66,

Ano14-78, Ano14-55, Ano14-67, Ano14-79,

Ano14-56, Ano14-68, Ano14-80, Ano14-57,

Ano14-69, Ano14-46, Ano14-58, Ano14-70,

Ano14-47, Ano14-59, Ano14-71, Ano14-48,

Ano14-60, Ano14-72, Ano14-49, Ano14-61,

Ano14-73, Ano14-50, Ano14-62, Ano14-74,

Ano14-51, Ano14-63, Ano14-75, Ano14-52,

Ano14-64, Ano14-76, Ano14-53, Ano14-65,

Ano14a, Ano15-40, Ano15-50, Ano15-41,

Ano15-51, Ano15-42, Ano15-52, Ano15-43,

Ano15-53, Ano15-44, Ano15-54, Ano15-45,

Ano15-55, Ano15-46, Ano15-56, Ano15-47,

Ano15-57, Ano15-48, Ano15-58, Ano15-49,

Ano15-59, Ano16k, Ano16l, Ano16-32,

Ano16-38, Ano16-33, Ano16-39, Ano16-29,

Ano16-30, Ano16-31, Ano16-34, Ano16-36,

Ano16-40, Ano16-35, Ano16-37, Ano16-41,

Ano16i, Ano16j, Ano16g, Ano16h, Ano17-59,

Ano17-60, Ano17r, Ano17z, Ano17s,

Ano17-27, Ano17t, Ano17u]. **Transactions**

[Ano17v, Ano17w, Ano17x, Ano17y,

Ano17-57, Ano17-58, Ano17l, Ano17m,

Ano17n, Ano17o, Ano17p, Ano17q, Ano17a,

Ano18v, Ano18w, Ano18x, Ano18y, Ano18z,

Ano18-27, Ano18-28, Ano18-29, Ano18-30,

Ano18-31, Ano18a, Ano18l, Ano18m,

Ano18n, Ano18o, Ano18p, Ano18q, Ano18r,

Ano18s, Ano18t, Ano18u, Ano19a, DRFO14].

Transcribing [GMH17]. **Transcription**

[AS17a, CDW16, DCLHJ18, ES16, KG16, MTBB15, NYD17, NYS17, ONKP16, SBD16, WDS⁺18]. **Transcripts** [BSL16]. **Transducers** [MHBT15]. **Transfer** [BRD15, BKK15, BHAMR19, FPTJ17, FPTJ18, GSA18, HMDG15, KMG15, LGGH18, LGGH19b, MBM15, MD16, MNFGO19, PAB19, RF19, SAPB15, SGH15b, SMH14, YTWB19, ZHH19]. **Transform** [AS15, DTL15, LCTA19, NXCL16, OWA15, PP19, VH19]. **Transformation** [MH18, WHLG14]. **Transformations** [CTSC14, CG16, CL17a, CL17b, CL18b]. **Transforms** [ZKDS18]. **Transient** [WAS14]. **Transients** [DTC16]. **Transition** [ODSM16, YZL⁺18]. **Transition-Based** [ODSM16, YZL⁺18]. **Translation** [BBC⁺16, BY15, CZY⁺18, CWU⁺19, DTN⁺17, DSN18, HSZ⁺18, LWC⁺18, LCZ⁺19, LFU⁺17, LWCL19, MHPB15, SZX⁺18, TZZ15b, WZL⁺15, WTZ18, WUF⁺18, WXZ⁺19, WZZ⁺18, XWZ16, XZW15, ZZZ16, ZLLS16, ZXSD17, ZZLZ19, ZXSL19, ZXH⁺16]. **Transliteration** [NNC19]. **Transmission** [LC16a]. **Transplantation** [CBG15]. **Tree** [DG15, HNY⁺15, LLL⁺19, PHM⁺17, YHO⁺17]. **Tree-Based** [DG15, YHO⁺17]. **Trellis** [MK16]. **Trellis-Based** [MK16]. **Trending** [GLC⁺14]. **Trial** [FNM⁺19]. **Trial-Based** [FNM⁺19]. **Trimming** [HNY⁺15]. **TRINICON** [MGGK17]. **Triplet** [ZKH18]. **Trump** [YLLC19]. **TTS** [CHC⁺14, LCWC16, ZTWY19]. **Tuned** [AG17]. **Tuning** [YM17]. **Tunisian** [GJB15]. **Turbo** [RWF16]. **Turn** [SWZ16]. **Turn-Taking** [SWZ16]. **TV** [PBQ15]. **Twitter** [GLC⁺14]. **Two** [AG17, CC14b, GRSP17, HZF17, HZF18, LCW⁺16, QMS16, SGM⁺15, SGH17a, SK16b, SWCN19, TOS14, TNS⁺18, WHRC16, XDC⁺17, ZTQB19, ZWW19]. **Two-Channel** [ZTQB19]. **Two-Dimensional** [AG17, XDC⁺17]. **Two-Microphone** [TNS⁺18]. **Two-Pass** [QMS16]. **Two-Stage** [GRSP17, HZF17, SGM⁺15, SK16b, SWCN19, ZWW19, TOS14]. **Two-Step** [CC14b, HZF18]. **Tying** [CWYC17]. **Type** [HZF18, OHN16].

Ubiquitous [Ano19t]. **Ultra** [YLD15]. **Ultra-Low** [YLD15]. **Unambiguous** [RKN14]. **Uncertainties** [RLPK15]. **Uncertainty** [KGP14, KBG16b, KBG18, RLK14, TVJ15]. **Uncorrelating** [OWA15]. **Underdetermined** [CY15, FK19]. **Underresourced** [DCLHJ18]. **Understanding** [CSJD16, GJB15, KG17, MDY⁺15, SHD14]. **Unfrequent** [MWT16]. **Unified** [KMAB18, XHS⁺18]. **Uniform** [ATP16, BBAS19, HBC17, PCB16a, WJ15b]. **Unifying** [KOS⁺16]. **Unique** [PBC16]. **Unit** [LWZZ16, SHDG16, SLR16]. **Units** [DLY⁺19, HBF⁺16, HL18, PM19]. **Universal** [CCT⁺19]. **Unloading** [SDF18]. **Unscented** [TCY15]. **Unseen** [SZVZ16]. **Unsegmented** [HWC⁺17, MHBT15]. **Unsupervised** [BCCZ19, CDLX18, CHL⁺19, CWBv19, CTLL17, CL18a, FL19, HSN18, JK19, JG19, KJG16, KSU⁺19, LJX⁺16, MP16, MH18, PBQ15, SP16, SK17, SBM⁺19, SR16b, SLR16, WsL15, WDDL17, XYH14, XHW⁺17, ZH18]. **Unsynchronized** [TS16]. **Untranscribed** [KSL19]. **Unvoiced** [KKGH16]. **Update** [HBB17]. **Updating** [SF14]. **Upsampling** [PAB19]. **Urban** [SK16b]. **Use** [ARSLN16, DB15, SHDG16, CPL14]. **Used** [BS14, GEC15]. **User** [EDO17, HM14, LXS⁺18, WWD14]. **User-Friendly** [EDO17]. **User-Generated** [WWD14]. **Users** [SF14]. **Using** [AF18, ATS18, AM18a, AdTJ18, ATP15, AY17, ADM⁺17, AS15, AG17, AB15, BV17, BC17, BGQO⁺17, BHAMR19, BLLP17,

BvWWM17, BSWP18, BMVG17, BH18, CONVVC18, CCR16, CE15, CSS⁺19, CDLL19, CHJ14, CHWL14, CLLD14, CWH⁺16, CASZ17, CWCP17, CS19, CMG⁺17, CWBv19, CL18b, CL18c, DC16, DP16, DvWDM14, DAGS⁺18, DHSG15, DAFS15, DBM15, DCLHJ18, DTC15, ES16, FSA18, FSO17, FWM⁺14a, FWM⁺14b, FOBP15, FPTJ17, FPTJ18, FZZ⁺15, FDK15, FNA15, GMH14, GRSP17, GJ17, GDM18, HAGSZ16, HGT15a, HBF⁺16, HL15, HL18, HWW16, HWC⁺17, HGAPB15, HHMK18, IO17, JK19, JHLK18, JSYW16, JTHN14, JG19, JYB⁺15, JWLF14, JK15, JRA17, KHTL18, KJG16, KK19a, KML18, KKK15, KCMW17, KMG17, KK19b, KHCW15, LWZ⁺14, LS14a, LGGH19b, LMC18, Lin18, LAGD18, LCW⁺16, LFU⁺17, LLLL19, LCTA19, MJZ15, MD18, MZX⁺15, MDY⁺15, MZM15, MCD14]. **Using** [MSD14, MD16, MBTB14, MAT15, MK16, MK15b, MJJ⁺14, NYD17, NTA15, NTM16, NNC19, NXCL16, NCC15, NNL15, NDV18, NAK⁺17, ODG16, PS19, PS17, PDS⁺16, PC19, PCB16b, MG19, RG15b, RRdM16, SAB16, STH⁺18, SP16, SOF15, SDF18, SAP14, SAC17, SDK17, SH19, SG14, SGH15b, SGH15a, STBC17, SLGA15, SP17, SvWRK15, SLL⁺16, SFK15, SLOVB15, SMH14, SLH17, SMSV17, SCEH19, SLGZ15, SZVZ16, SWCN19, TZA14, TH14, TH18, TP15, TP19, TR15, TNS⁺18, TDL19, VAH19, VRN18, VM15, VP17, VAP19, VDM15, WAS14, WWD14, WGD15, WCC⁺15, WRC16, WHRC16, WED17, WWS⁺18, WJ15b, WAS16, WSY14, WHLG14, WSH15, WAJL15, WK16, WRKG17, WRK18, XNP⁺18, XLL⁺19, XYH14, YB14, YGV14, YZW⁺18, YWLZ18, ZP15, ZZN⁺16, ZCYZ18, ZGO19, ZDLK18, DH14, LZHN14, MAP14, NR14a, ZA14]. **Utilizing** [YKMP18]. **Utterance** [FWT⁺18, KYTJ17, LWZZ16]. **Utterance-Level** [KYTJ17]. **Utterances** [HYI⁺15].

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