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## Title word cross-reference

1 [DB17]. 2 [DB15]. 3 [ML16, WAH+16]. 14 [LO16]. *D* [HH17]. *N* [HH17, Han22, vGvdB16]. *t* [Kel20].

**-D** [WAH+16]. **-dimensional** [Han22]. **-gram** [vGvdB16]. **-Tests** [Kel20].

**3** [LD19, MOM21]. **3.0** [NMA+18]. **3D** [BR21].

**ABC** [NS20]. **ABC-OCT** [NS20]. **Abstractions** [DBB+14]. **Accelerate** [VHT+19]. **Accelerators** [AC17]. **Access** [PdV21]. **Accessible** [VBAF16]. **Accuracy** [TS21]. **Accurate** [TS14]. **Acoustic** [BBJ17]. **Acquisition** [TDX+20, Wag17]. **Action** [RD22]. **Adaguc** [PdV21]. **Adaguc-Server** [PdV21]. **Adapting** [CB16b]. **ADAT** [CFC+17]. **Additive** [Sto16]. **Address** [Kat14]. **AddressingHistory** [OHM14]. **Adjacency** [XXX16]. **Adopting** [CB16b]. **Adults** [ME14]. **Advanced** [HFM+21, MHE+18, PM17]. **Affect** [Gir14, PDR+17]. **Affinity** [XXX16]. **Affordable** [TS14]. **Age** [LO16]. **Agent** [KFV20]. **Agent-Based** [KFV20]. **Alcohol** [LPG+18]. **Algebraic** [WS15]. **Algorithm** [LVSF16, Raß20]. **Algorithmic** [Grö20]. **Algorithms** [LW20, TS21]. **Alida** [PM17]. **American** [ES21, Kim17]. **AMR** [DV14]. **Analysing** [SM14a, vGFvNvA19]. **Analysis** [AL16, BVL18, BHS18, CRL21, CZZ19,

CKDG20, Daw16a, ES21, FLMR16a, Far16, FCY20, FSBK18, FS16, GDP18, HH15, Han21, Han22, Law17, MGMP16, OK20, PM17, PDR+17, RD22, Sta21, TLR21, Wag17, WL13, YL17, ZO16, vGFvNvA19, EBFS17, FSV+13, PFLG21]. **Analytical** [ZO16]. **Analytics** [Gov16]. **Analyze** [BS22, KWV+20]. **Analyzing** [FLMR16b]. **Android** [LPG+18, Luk21]. **Animal** [BBJ17]. **Annotation** [Gir14, FPF14]. **Annotator** [HYG16]. **Anterior** [RD22]. **API** [CSR+23, MBA19, Moo21, SGPHD+17]. **App** [Luk21]. **Application** [BS22, EML21, Far16, GPP+14, Pas16, RML17, SPG+15]. **Applications** [DVS20, HFM+21, MA13, ML16, PM17]. **Apply** [Haz14]. **Approach** [RLWP16]. **Approximation** [TCD+22]. **ARBTools** [WKC19]. **Architectures** [DBB+14, HFM+21]. **area** [GRZ13]. **ARM** [HC16]. **Army** [DLA+16]. **Arrays** [Grö20, HH17]. **Art** [EGB+19, FLS+20, HC16]. **Ask** [PDR+17]. **Assessing** [ME14, VZR+18]. **Assessments** [NMA+18]. **Assimilation** [JCL+20]. **Assisted** [Gri18]. **Assurance** [WL20]. **Atmospheric** [Juc14]. **Atomic** [OPA+14]. **Atomistic** [BCOP+18]. **Attribute** [TLR21]. **Attribution** [Kat14]. **ATUS** [Kim17]. **ATUS-Commuting** [Kim17]. **autoAPI** [Moo21]. **Automated** [SMS+23, TLR21]. **Automatic** [MS14, TCD+22]. **Automating** [FSBK18, JAGP14]. **Avalanche** [PDN18]. **AvoPlot** [Pet14].

**BALTRAD** [MHE+18]. **Barely** [Bro14]. **Based** [BGB+19, FLS+20, Gen20, Han16, HKGvS21, KFV20, MA13, Moo21, OKVK17, RBB+19, RLO18, RG21, SC20, Sta21, SMG19, ST15, BR21, BW16, FPF14, Gov16, GA13, JAGP14, OL17, Pet14, SBS+18]. **Basin** [SA20, WLA19]. **Basis** [Sar17]. **Batch** [OKVK17]. **Battery** [GPKL+20, ST15, SMT+21]. **Battery-Testers** [GPKL+20]. **BayesFactorFMRI** [Han21]. **BayesFit** [SSB19]. **Bayesian** [DF21, ES21, Han21, Kel20, LO16, OI16, Sch17, SSB19]. **bayesint** [DF21]. **bayest** [Kel20]. **BayesTwin** [Sch17]. **bbsBayes** [ES21]. **BEAT** [NMA+18]. **before** [AS15]. **Behavioral** [Gri18, WH22]. **Behaviours** [Pas16]. **Benthic** [Kib16]. **Best** [SM14b]. **Beta** [DF21]. **between** [EA17, PKB19]. **Big** [TCH14]. **Billie** [Tau18]. **Biodiversity** [NMA+18]. **Biology** [CB16b]. **Biquandle** [FW18]. **Bird** [ES21]. **Bivalent** [ME14]. **Blind** [VLG+14]. **Blood** [DB17, KLC21, XXX16]. **Boolean** [OK20]. **BoolSi** [OK20]. **Bottleneck** [PFLG21]. **Brain** [RD22]. **Breeding** [ES21]. **Brightness** [SS18]. **BST** [ME14]. **Build** [PGR20]. **Building** [BCHR15, Tau18].

**C** [DAT+21, LO16, MBA19, PDN18, SGPHD+17]. **Cactus** [LBAS14]. **Calculate** [Gen20, HKGvS21, Kim17]. **Calculating** [DF21]. **Calculation** [FW18, GOB16, TLR21]. **Calculator** [AV19]. **Calibration** [BGB+19, LO16]. **Caliko** [LVSF16]. **CALPHAD** [OL17]. **CALPHAD-based** [OL17]. **Cambridge** [EBS17]. **Camera** [BR21]. **Cameras** [Wag17]. **Capture** [SZP15, SGPHD+17]. **Cardiovascular** [DS16]. **Carlo** [SBV+15, PDN18]. **CARMA** [Gir14]. **Case** [SC20]. **Case-Based** [SC20]. **Cells** [CNS+21]. **Cellular** [KLC21]. **CERF** [VZR+18]. **CESER** [Fer21]. **CFD** [MBLA19]. **Challenges** [ZZF+14]. **Change** [CLW19, FS19, KFV20, PGR20, VLC+18]. **channel** [SGPHD+17]. **Channeling** [CB16a]. **Characterization** [Mar16]. **Charting** [BW16]. **Chemical** [dBHD17]. **Children** [ME14]. **CHLOE** [MS14]. **Chromatography** [Meu16]. **CIT** [Luk21]. **Citation** [Kat14]. **Classification**

[BHF16, ZO16]. **Classifiers** [HR17]. **Classifying** [Kib16]. **Client** [HG23]. **Client/Server** [HG23]. **Climate** [Daw16a, HKGvS21]. **Climatological** [PdV21]. **Cluster** [Fer21]. **Clustering** [LW20]. **CMakeCatchTemplate** [DAT+21]. **Coarse** [dBHD17]. **Coarse-grained** [dBHD17]. **Code** [BC17, DV14, Kim17, TCH14, SMG19]. **Codes** [DBB+14]. **Coding** [ASL13, Gri18, Pas16]. **Codon** [RSR23]. **Coefficients** [Law17]. **Coherence** [NS20]. **Colibri** [vGvdB16]. **Collection** [ST15]. **collections** [FPF14]. **Collective** [SMG19]. **Colloids** [dBHD17]. **Comfort** [HH20, HH20]. **Commitment** [CKDG20]. **Commitment/Economic** [CKDG20]. **Common** [MBA19]. **Communication** [RD22]. **Community** [BCHR15, CB16a, DLR+15, SMC+22, WKD+19, ZZF+14]. **Commuting** [Kim17, WS15, Kim17]. **Comparing** [LW20]. **Comparison** [Han21]. **Compartmental** [FSBK18]. **Complex** [FS19, LV13, SC20]. **COMPLEX-IT** [SC20]. **Component** [WL13]. **Comprehensive** [SBS+18]. **Compressive** [OPA+14]. **Computation** [Coe17, DB15, Wan19]. **Computational** [GPP+14, OL17, SM14b, FSV+13]. **Computations** [CE19, Daw16b, NHL+22]. **Compute** [Fer21]. **computed** [NHL+22]. **Computer** [Gri18, Coe13, WH22]. **Computer-Assisted** [Gri18]. **Computerized** [ME14]. **Computing** [RWE+20]. **Concatenating** [Sch21]. **Concealed** [Luk21]. **Concerns** [Kat14]. **Concurrent** [GPP+14, SPG+15]. **Conditions** [LFD+22]. **Conducting** [LAB+14]. **ConfBuster** [BVL18]. **Configuration** [Ned17]. **Conformational** [BVL18]. **ConIII** [LD19]. **Connected** [WL13]. **Constrained** [CKDG20]. **Consumption** [LPG+18]. **Container** [SMS+23]. **Context** [LAB+14]. **Continuous** [GPP+14, Gir14, SPG+15]. **Contributions** [CB16a, EA17]. **Control** [Gar19, HWX+16, WAH+16]. **Convenient** [LD19]. **Converting** [XXX16]. **Coordinates** [DB15]. **Copy** [VLPV19]. **Core** [vGvdB16]. **Correction** [Han21, IKKC16]. **Corrections** [PAT22]. **Correlation** [LS21]. **Counting** [AMG21, CNS+21]. **Cover** [CLW19, KFV20, VLC+18]. **CowLog** [Pas16]. **Creating** [AS15, MYM21]. **Creation** [Grö20]. **Credible** [DF21]. **Credit** [Kat14, KS15]. **Cross** [FS16, LS21, MYM21, NS20, Pas16]. **Cross-** [LS21]. **Cross-Platform** [FS16, NS20, Pas16]. **Cross-Tabulations** [MYM21]. **CSVDataMerge** [Sch21]. **CUDA** [AC17]. **Culture** [CHI17, FPF14]. **CURSAT** [Gen20]. **Curves** [Gen20, WVTTG21]. **Custom** [BW16].

**D** [DB17, DB15, ML16, WAH+16]. **Data** [AL16, Arg15, AMB19, BLDC+19, BW16, CZZ19, Daw16a, DVS20, ES21, Far16, FLS+20, FSBK18, FS16, Gen20, GPKL+20, GDP18, HW19, HC16, HFM+21, HGS21, HWX+16, HMB23, JCL+20, Juc14, KWV+20, Kib16, KHD+16, LAB+14, ML16, MRX14, Moo21, PGR20, PBF+16, PL20, PM17, Rab20, RG21, RML17, Sch21, Sch17, SR20, SMG19, SZP15, Wag17, Wan19, WTLB19, WL20, ZO16, FSV+13, JAGP14, PFLG21, SSB19, Han22]. **Database** [NHL+22]. **Databases** [SM14a]. **DataDeps.jl** [WTLB19]. **DataExplore** [Far16]. **Datasets** [HH17, MS14, PdV21]. **Decadal** [IKOC14, IKKC16]. **Decay** [WVTTG21]. **Decision** [HGHR20, SMG19]. **Decision-Making** [SMG19]. **Deconvolution** [Rab20, WVTTG21]. **Define** [SMC+22]. **Defocusing** [BR21]. **Defocusing-based** [BR21]. **DefocusTracker** [BR21]. **Degrees** [EBS17]. **Demeter** [VLC+18]. **Deployment** [Luk21].

**Depth** [Kib16]. **Depth-tagging** [Kib16]. **Design** [VEV+19]. **Designs** [CC20]. **Detection** [BBJ17, Han16, MS14, TLR21]. **Determine** [HB17]. **Determining** [CNS+21, Law17]. **Developed** [MOM21]. **Developing** [EGB+19]. **Development** [AC17, CCH+14, CB16b, GPP+14, PM17, SPG+15, SBV+15]. **Difference** [BCOP+18]. **Differential** [RN17]. **DifferentialEquations.jl** [RN17]. **Diffusion** [CZZ19]. **Digital** [Haz14, Kat14, KLC21, TS14]. **Dilemma** [KCH+16]. **Dimensional** [WKC19, Wan19, Han22]. **DiracQ** [WS15]. **Direct** [JCL+20]. **Directory** [OHM14]. **Disaggregation** [VLC+18]. **Discover** [EA17]. **Discovery** [SMS+23, VHT+19]. **Discrete** [BC17]. **Discussing** [KP14]. **Disequilibrium** [PKB19]. **Disparity** [Jay21]. **Dispatch** [CKDG20]. **Distributed** [OK20]. **Distributions** [DF21]. **Divided** [HS18]. **DiViDu** [HS18]. **Do** [LMOB+22]. **Documents** [DPL17]. **DoE.MIParray** [Grö20]. **Domain** [NS20]. **Dot** [RLO18]. **Downscaling** [LVH+18]. **Driven** [PBF+16]. **Driver** [vGFvNvA19]. **Drop** [DM16]. **Drosophila** [NL13]. **DSCImageCalc** [Law17]. **DST** [RD22]. **Dual** [HS18]. **Dye** [Wag17]. **Dynamic** [Gov16, Rab20, RD22]. **Dynamics** [AMB19].

**e-MERLIN** [Arg15]. **e-Research** [KP14]. **eAnalytics** [Gov16]. **Earth** [BLDC+19, Han22, KILE+21, RG21]. **EasyVVUQ** [RWE+20]. **ecg** [DS16]. **ecg-kit** [DS16]. **Ecological** [SA20]. **Economic** [CKDG20]. **Ecosystem** [RN17, DPL17]. **Ecosystems** [Sto16]. **EDI** [PBF+16]. **Editor** [Haz14, PBF+16]. **Education** [Far16]. **Effect** [Kel20, SZH19]. **Effect-Size** [Kel20]. **Effects** [EA17, Haz14, TCH14]. **Efficiency** [CNS+21]. **Efficient** [vGvdB16, GRZ13]. **Efficiently** [PL20]. **Efflux** [FSBK18]. **Efforts** [TCH14]. **EIT-MESHER** [DAF+20]. **Electrical** [BS22]. **Electron** [GDP18]. **Electrophysiology** [Wag17]. **Elephant** [VLG+14]. **Embarrassingly** [HG23]. **Embedding** [MOM21]. **Embo** [PFLG21]. **Empirical** [VLG+14, PFLG21]. **Enabling** [GDP18]. **encoding** [SGPHD+17]. **Encyclopedia** [SMC+22]. **End** [BZSH21]. **End-to-End** [BZSH21]. **Endpoint** [Moo21]. **Energy** [Gov16, HGS21, VZR+18, GDP18]. **Engineering** [DV14, HH15, LMOB+22, GA13]. **enhanced** [TS21]. **Enhancer** [Haz14]. **Ensembles** [Kra16]. **Entropy** [LD19]. **Environments** [SM14b]. **EOF** [Daw16a]. **eofs** [Daw16a]. **Equations** [RN17]. **Errors** [Fer21]. **Essence** [GA13]. **Estimated** [Fer21]. **Estimation** [SZH19]. **esy** [PL20]. **esy-osmfilter** [PL20]. **Evaluation** [IKOC14, IKKC16, KILE+21, VLG+14]. **Event** [TLR21]. **Executables** [SMS+23]. **Expansion** [VZR+18]. **Experience** [CB16a]. **Experiences** [DV14, EGB+19, KCL+14, KCWD+16, KCN+16, KNG+18, KDH+19, PGR20, SBV+15, ZZF+14]. **Experimental** [AL16, CC20, Sch21]. **Experiments** [AMB19, HS18, FSV+13]. **Explorative** [HLR15]. **Exploratory** [HGHR20]. **Explorer** [MA13]. **Exploring** [LW20, RML17]. **ExpressInHost** [RSR23]. **Expression** [RSR23]. **ExpTimer** [LV13]. **Extendable** [CSR+23]. **Extensible** [MRX14, SM14b, Pet14]. **External** [dBHD17]. **Extract** [PL20]. **Extraction** [DPL17, Liu17]. **Eye** [Jon18]. **Eye-Tracker** [Jon18]. **Eyex** [Jon18].

**FABRIK** [LVSF16]. **facilitate** [LV13]. **Fan** [RDBC23]. **Fan-Slicer** [RDBC23]. **Fast** [RDBC23, vGFvNvA19, MBA19]. **FastGAPP** [RG21]. **Feasibility** [VZR+18]. **Feature** [RN17, MA13]. **Feature-Rich** [RN17]. **Features** [AMG21, EA17]. **FEM**

[DAF+20]. **Fermat** [BG15]. **Fidimag** [BCOP+18]. **Field** [Daw16b, HS18, WKD+19]. **Fields** [Liu17, WKC19, dBHD17]. **Figure** [CC20]. **File** [Ned17]. **Files** [CFC+17, Sch21]. **Filter** [BHF16]. **Finding** [BG15]. **Finite** [BCOP+18]. **Fire** [AV19]. **First** [KCL+14]. **Flagging** [HWX+16]. **Flexgram** [vGvdB16]. **Flexible** [PGR20]. **Flight** [EBS17]. **Flow** [DB17, KLC21, Liu17, LS21, Meu16, MOM21, RDB21]. **Flowtracks** [ML16]. **Fluid** [AMB19, Meu16]. **FluidDyn** [AMB19]. **FluidFFT** [MBA19]. **FluidSim** [MBLA19]. **fMRI** [Han21, WL20]. **Force** [OPA+14]. **Forecasting** [HKGvS21, MR21]. **Forecasts** [Kra16]. **Forests** [OKVK17]. **FOrmatted** [PAT22]. **Fortran** [AC17]. **Forward** [PMM15]. **Fourier** [MBA19, DB15, NS20]. **Fourier-Domain** [NS20]. **Fourteen** [Bro14]. **Fourth** [KNG+18]. **Framework** [AMB19, FLS+20, GPP+14, HG23, Han22, HR17, JCL+20, KILE+21, KP14, KCH+16, PKB19, SBS+18, SPG+15, SMC+22, Tau18, UR19, VLG+14, VHT+19, VBAF16]. **Frameworks** [DV14]. **Free** [FS16, KILE+21, Sch21, WAH+16]. **Freedom** [EBS17]. **Freshwater** [SA20]. **Freva** [KILE+21]. **friendly** [TS14]. **Full** [SS18]. **Function** [Sar17, TCD+22]. **Future** [DBB+14, VZR+18].

**Gage** [RML17]. **GAIL** [TCD+22]. **Ganglion** [CNS+21]. **Gas** [Meu16]. **GCAM** [BLDC+19]. **gcamdata** [BLDC+19]. **gcamland** [CLW19]. **Geiger** [PDN18]. **Genefer** [BG15]. **General** [Far16]. **Generalized** [BG15, JNR17]. **Generate** [DVS20, Gen20]. **Generating** [Kra16]. **Generation** [DAF+20]. **Generator** [Ned17, Jay21]. **Generic** [MRX14, MYM21, Gil17]. **GENESIS** [Gil17]. **Genome** [OI16]. **Genome-Wide** [OI16]. **Geochemical** [RG21]. **Geospatial** [KHD+16, VZR+18]. **Geotagging** [Kib16]. **GIFT** [SGPHD+17]. **GIFT-Grab** [SGPHD+17]. **Giles** [DPL17]. **GIS** [Kib16]. **GitHub** [SPG+15]. **Global** [Daw16b, DVS20, LVH+17, LVH+18, VHT+19]. **Glyph** [QGA19]. **GNU** [Rab20]. **Go** [BZSH21]. **Grab** [SGPHD+17]. **grained** [dBHD17]. **gram** [vGvdB16]. **Graph** [RD22]. **Graphic** [Haz14]. **Graphical** [SM20]. **Grid** [HB17, SR20]. **Gridsampler** [HB17]. **Guaranteed** [TCD+22]. **Guided** [Rab20]. **GuiTeNet** [SM20].

**Habitat** [Kib16]. **Hand** [FHRS21]. **Hand-Over** [FHRS21]. **HANDE** [SBV+15]. **Handling** [RDB21]. **Hankel** [BC17]. **Harmonics** [Daw16b]. **Harmonize** [KWV+20]. **Harnessing** [VEV+19]. **Heart** [CRL21, vGFvNvA19]. **Heat** [VEV+19]. **HELM** [MOM21]. **HELMpy** [MOM21]. **Heterogeneous** [PdV21]. **Hierarchical** [ES21]. **High** [Daw16b, GPKL+20, Mat18, MBLA19, RWE+20, Raß20]. **High-Level** [Daw16b, Mat18]. **High-Performance** [MBLA19]. **High-Precision** [GPKL+20]. **Hindcast** [IKOC14, IKKC16]. **HiPPSO** [Raß20]. **Historical** [DVS20, OHM14]. **Holomorphic** [MOM21]. **Homogeneity** [HMB23]. **Homology** [FW18]. **Host** [RSR23]. **HPC** [CCH+14, DBB+14, MBA19]. **HTML5** [MA13]. **Hub** [WKD+19]. **Human** [BLDC+19, Sto16, WH22]. **Human-computer** [WH22]. **HydroCloud** [RML17]. **Hydrodynamics** [dBHD17]. **Hydrologic** [LVH+17, VHT+19]. **Hydropower** [WLA19].

**Ideal** [LFD+22]. **IJBlob** [WL13]. **Image** [DM16, Haz14, HR17, Law17, LS21, MS14, Mar16, MGMP16, OKVK17, TS14, TS21, Haz14]. **ImageJ** [CNS+21, DM16, HH15, OKVK17, WL13, ZO16]. **Images** [Cre22, Han21, Liu17, OPA+14].

**ImageSURF** [OKVK17]. **Imaging** [FS16, Wag17]. **Impacts** [Sto16]. **Impaired** [EGB+19]. **Implementation** [LVSF16, NS20, NHL+22, RD22]. **Implemented** [BHF16]. **Implementing** [Han21]. **Including** [MOM21]. **Index** [HKGvS21, LPG+18]. **Indicators** [SA20]. **Industrial** [Gar19]. **Industry** [Gov16]. **Inference** [CRL+19, OI16, Sch17, SSB19]. **Information** [Luk21, PFLG21, Tau18]. **Infrastructure** [CHI17, KP14, SM14b, UR19]. **Input** [BLDC+19, PDR+17, Sta21]. **Input-Output** [Sta21]. **Inputlog** [VLPV19]. **Inputs** [DVS20]. **Inquiry** [SC20]. **Insert** [HW19]. **Integrated** [BLDC+19, HS18, NMA+18, PM17]. **Integrating** [LS21, SA20]. **Integration** [GPP+14, SPG+15, TCD+22, TCH14, UR19]. **Interaction** [WH22]. **Interactive** [BGB+19, BW16, PdV21, RBB+19, WH22]. **Interface** [Jon18, LD19, Mat18, SS18, SM20]. **Interference** [ME14]. **Interpolator** [WKC19]. **Interpreting** [RG21]. **Interrelated** [EA17]. **Intervals** [DF21]. **Introducing** [HGS21]. **Introduction** [KILE+21]. **Intuitive** [Hug14]. **Inverse** [LVSF16, LD19]. **iOS** [LPG+18]. **Ising** [LD19, LD19]. **Ising-Type** [LD19]. **Issues** [LBAS14]. **Item** [Sch17]. **Item-Level** [Sch17]. **Iterated** [KCH+16].

**Janus** [KFV20]. **Japanese** [PDR+17]. **Java** [ST15]. **Java-Based** [ST15]. **Job** [GRSLL16]. **JSON** [KS15, Moo21]. **JSON-LD** [KS15]. **Jug** [Coe17]. **Julia** [CE19, CSR+23, JNR17, RN17]. **Julian** [HKGvS21]. **Julian-Oscillation** [HKGvS21]. **Just** [Bro14].

**KAMG** [XXX16]. **Kinematics** [LVSF16]. **Kinematogram** [RLO18]. **kit** [DS16]. **Knife** [DLA+16]. **Know** [LMOB+22]. **Komadu** [SZP15]. **KPP** [AC17].

**L1C** [SS18]. **Lab** [CB16b]. **labeled** [HH17]. **Laboratory** [AV19]. **Land** [CLW19, DVS20, KFV20, VLC+18]. **Lane** [vGFvNvA19]. **Langevin** [RLWP16]. **Language** [CSR+23, FS19, HC16]. **Large** [BG15, CKDG20, DV14, ZZF+14]. **Large-Scale** [CKDG20]. **LD** [KS15]. **Leaping** [AS15]. **Learning** [HR17, KDH+19]. **LEED** [GDP18]. **LEEM** [GDP18]. **Lessons** [BCHR15]. **Level** [Daw16b, Han21, Jay21, Mat18, Sch17]. **Libraries** [MBA19]. **Library** [BW16, CZZ19, Daw16a, Daw16b, Gar19, HGHR20, HC16, HFM+21, JLZ21, LVSF16, PL20, PM17, RWE+20, TCD+22, TLR21, WL13, GRZ13, JAGP14]. **Lifecycle** [LAB+14]. **light** [GRZ13]. **light-weight** [GRZ13]. **Lightweight** [GRSLL16]. **LIIS** [FPF14]. **Linear** [PDN18]. **Linkage** [PKB19]. **Linkages** [KWV+20]. **Liquid** [Meu16]. **Listen** [BZSH21]. **Listening** [BZSH21, SBS+18]. **Load** [MOM21]. **Locking** [RD22]. **Longbow** [GRSLL16]. **Looking** [AS15]. **Low** [GDP18]. **Low-energy** [GDP18].

**Machina.NET** [Gar19]. **Macro** [MYM21]. **Macrocycle** [BVL18]. **Macros** [FCY20]. **Madagascar** [FSV+13]. **Madden** [HKGvS21]. **Magni** [OPA+14]. **Mahotas** [Coe13]. **Making** [HGHR20, SMG19]. **Management** [LAB+14, ML16, MRX14, SA20, WLA19, JAGP14]. **Manipulation** [RDB21, WS15]. **Manual** [HYG16]. **Many** [HGHR20]. **Many-Objective** [HGHR20]. **Maple** [DB15]. **Mapping** [Kib16, Sto16]. **Marine** [Sto16]. **Markov** [RLWP16]. **Massive** [HG23]. **MatCal** [LO16]. **Materials** [VEV+19]. **MATH** [GOB16]. **Mathematical** [SdSS16, SMT+21]. **MATLAB** [Jon18, RG21, RD22, SM14a, TS14, TS21, TCD+22, BC17, DLA+16,

DS16, LO16, Mar16, Sar17]. **MATLAB(R)** [Rab20, SS18]. **matplotlib** [Pet14]. **Matrices** [XXX16]. **Matrix** [ZO16]. **Maximum** [LD19]. **Means** [Kat14]. **Measure** [AV19, DM16]. **Measuring** [VLPV19]. **MECCA** [AC17]. **Media** [Gir14]. **Mediation** [FCY20, YL17]. **Mediators** [YL17]. **MEDINA** [AC17]. **Memory** [ST15]. **Men** [VLG+14]. **Mentorship** [TCH14]. **MERLIN** [Arg15]. **Mesh** [DAF+20]. **MESHER** [DAF+20]. **message** [GRZ13]. **Meta** [Han21]. **Meta-Analysis** [Han21]. **Metadata** [PBF+16]. **Meteorological** [Daw16a, PdV21, Wan19]. **Method** [LS21, MOM21]. **Methodologies** [DBB+14]. **Methods** [GOB16]. **Metis** [KWV+20]. **Micro** [NHL+22]. **Micro-computed** [NHL+22]. **Micromagnetic** [BCOP+18, VBAF16]. **Micromagnetics** [VBAF16]. **Microorganisms** [RSR23]. **Microscopy** [MS14, OPA+14, ZO16]. **MINRES** [Cho14]. **MINRES-QLP** [Cho14]. **MiToBo** [MGMP16]. **mixchar** [WVTTG21]. **ML** [PDR+17]. **ML-Ask** [PDR+17]. **mma** [YL17]. **Mode** [PDN18]. **Model** [BLDC+19, CKDG20, EML21, HH20, LVH+17, LFD+22, Rab20, Sto16, Tau18, VZR+18, VLC+18, WLA19]. **model4you** [SZH19]. **Modeling** [DVS20, HGHR20, HGS21, KILE+21, KFV20, RLWP16, GA13, SSB19]. **Modelling** [CLW19, FS19, Gil17, MR21, PDN18, SC20, SMT+21, vGvdB16]. **Models** [LD19, RBB+19, UR19]. **Modular** [BR21, HR17, HFM+21, HYG16, MBLA19]. **Moirai** [DVS20]. **Moisture** [BGB+19]. **MongoDB** [HW19]. **Monitoring** [LPG+18, MA13]. **Monte** [SBV+15, PDN18]. **MOOSE** [SPG+15]. **Moosh** [DLA+16]. **Motion** [WAH+16]. **Motor** [RD22, VLPV19]. **MPWide** [GRZ13]. **MUFOS** [PAT22]. **Multi** [KWV+20, Sta21, Wan19, LV13, SGPHD+17]. **multi-channel** [SGPHD+17]. **Multi-Dimensional** [Wan19]. **Multi-Regional** [Sta21]. **Multi-Sectoral** [KWV+20]. **multi-step** [LV13]. **Multidimensional** [SR20, FSV+13]. **Multilayers** [DLA+16]. **Multilingual** [VLPV19]. **Multiphysics** [DV14, HFM+21]. **Multiple** [FCY20, Han21, Wag17, YL17, PAT22]. **Multiprocessing** [Han21]. **Multivariate** [SR20]. **MurCSS** [IKOC14, IKKC16]. **MWA** [HYG16]. **Myex** [Jon18].

**nanoHUB.org** [ZZF+14]. **Nansat** [KHD+16]. **Navigating** [CFC+17]. **nd** [Han22]. **Network** [CKDG20, HW19, HR17, LFD+22, RD22]. **Network-Constrained** [CKDG20]. **Networking** [MHE+18]. **Networks** [EA17, OK20, SM20, GRZ13]. **Neural** [EA17, HR17]. **NeuroCharter** [EA17]. **NMME** [Kra16]. **Noisy** [CRL+19, vGFvNvA19]. **NOMA** [LFD+22]. **Non** [LFD+22, WS15]. **Non-Commuting** [WS15]. **Non-Ideal** [LFD+22]. **North** [ES21]. **Novelty** [MS14]. **Novonix** [GPKL+20]. **npFEM** [KLC21]. **Numerical** [DLA+16, GOB16]. **Numerous** [Haz14].

**OACoder** [ASL13]. **Object** [MBLA19]. **Object-Oriented** [MBLA19]. **Objective** [HGHR20]. **Observation** [Gri18, Han22]. **ObsPy** [TLR21]. **Ocean** [RBB+19, vdB19]. **Oceanographic** [Daw16a, RBB+19]. **OCR** [DPL17]. **OCT** [NS20]. **Octave** [DLA+16, Rab20, SS18, SM14a]. **Octave/Matlab** [DLA+16]. **Octave/MATLAB(R)** [SS18]. **oemof.tabular** [HGS21]. **Off** [vGFvNvA19]. **Off-the-Shelf** [vGFvNvA19]. **Office** [OHM14]. **oflibnumpy** [RDB21]. **oflibpytorch** [RDB21]. **Older** [RD22]. **OLR** [HKGvS21]. **OLR-Based** [HKGvS21]. **OMI** [HKGvS21]. **One** [CC20]. **Online**

[BZSH21, JAGP14]. **Open** [AMG21, AMB19, BVL18, Coe13, EML21, Gri18, HS18, HYG16, KCH+16, LPG+18, Liu17, LS21, LO16, MOM21, PAT22, PdV21, PDR+17, SA20, SM14a, SBV+15, Sto16, TCD+22, TCH14, Wan19, WAH+16, FSV+13]. **Open-Source** [AMG21, AMB19, BVL18, Gri18, HYG16, PAT22, SBV+15, TCD+22, SM14a, WAH+16, FSV+13]. **OpenOpticalFlow** [Liu17]. **OpenOpticalFlow_PIV** [LS21]. **OpenStreetMap** [PL20]. **Optical** [LS21, NS20, RDB21]. **Optics** [DLA+16]. **Optimization** [EML21, Meu16, Raß20, SdSS16, TCD+22]. **Optimizer** [EML21]. **OPTN** [HW19]. **Organ** [HW19]. **Orientated** [KHD+16]. **Oriented** [MBLA19]. **Orthogonal** [Grö20]. **Oscillation** [HKGvS21]. **osmfilter** [PL20]. **Outlier** [HWX+16]. **OutlierFlag** [HWX+16]. **Output** [FLMR16b, FSBK18, Sta21].

**Pack** [Cho14]. **Package** [AL16, BCOP+18, BLDC+19, CLW19, CRL21, DB17, DF21, ES21, Fer21, GPKL+20, Grö20, HKGvS21, HMB23, KFV20, Kel20, KHD+16, Kra16, LD19, LVH+18, ML16, MBLA19, MOM21, OPA+14, RDBC23, RLWP16, Sch17, SZH19, SdSS16, VEV+19, WL20, WVTTG21, WS15, YL17, vdB19, PFLG21]. **Packages** [HGS21]. **Palabos** [KLC21]. **Palabos-npFEM** [KLC21]. **Paradigm** [HS18]. **Parallel** [Coe17, HG23, NHL+22]. **Parameter** [EML21]. **Parameters** [Ned17]. **ParaView** [Juc14]. **Parchar** [Mar16]. **Parser** [OHM14, OHM14]. **Particle** [BR21, Hug14, LS21, ML16, Raß20, TS14, TS21]. **Particles** [Mar16]. **Partitioning** [PKB19]. **passing** [GRZ13]. **Patching** [PMM15]. **PBTK** [EML21]. **Pendent** [DM16]. **Pendent_Drop** [DM16]. **Perception** [HH20]. **PerfAndPubTools** [FLMR16a]. **Performance** [FLMR16a, MBLA19, RWE+20, SdSS16]. **Performant** [RN17]. **Perprof** [SdSS16]. **Perprof-py** [SdSS16]. **Personalised** [SZH19]. **Perspective** [BL14]. **Petrological** [RG21]. **PFHub** [WKD+19]. **Phase** [RD22, WKD+19]. **Phase-Field** [WKD+19]. **Phase-Locking** [RD22]. **Photo** [Kib16, NL13]. **Photo-transduction** [NL13]. **Photodiodes** [PDN18]. **Photos** [Kib16]. **Physiology** [vGFvNvA19]. **PhysioNet** [SM14a]. **Picasso** [HR17]. **PINTS** [CRL+19]. **Pipeline** [Arg15, RD22]. **PIVlab** [TS14, TS21]. **Pixel** [OKVK17]. **Pixel-Based** [OKVK17]. **Planes** [RDBC23]. **Platform** [BZSH21, FSBK18, FS16, NS20, Pas16, SC20]. **Please** [EGB+19, GDP18]. **Plots.jl** [CSR+23]. **Plotting** [CFC+17, CSR+23, Pet14]. **Plugin** [DM16, HH15, OKVK17, ZO16]. **Plugins** [CNS+21]. **POD** [OHM14]. **Polar** [DB15]. **Polarization** [SS18]. **Populations** [PKB19]. **Porous** [HH15]. **Portage** [HFM+21]. **Post** [OHM14]. **Postcode** [ASL13]. **Posterior** [RD22]. **Posterior-to-** [RD22]. **Power** [BHS18, CKDG20, MOM21]. **PowNet** [CKDG20]. **Practice** [KCL+14, KCWD+16, KCN+16, KNG+18, KDH+19]. **Practices** [SM14b]. **Pre** [AC17]. **Pre-processor** [AC17]. **Precision** [GPKL+20, Raß20]. **preconfig** [Ned17]. **Predictive** [Kra16]. **Preparation** [BLDC+19]. **Preparing** [AL16, TLR21, WH22]. **prepdat** [AL16]. **Preprocess** [GPKL+20]. **Preprocessing** [CRL21]. **Preserving** [WH22]. **Primes** [BG15]. **Prisoner** [KCH+16]. **Probabilistic** [Kra16, EBFS17, CRL+19]. **Probable** [BG15]. **Problems** [DB17]. **procedures** [LV13]. **Process** [HR17, PGR20]. **Processes** [RLWP16, CB16b]. **Processing** [AMB19, DS16, DVS20, FLS+20, Hug14, KHD+16, Mar16, MGMP16, SS18, SM14a, SR20, WAH+16, SGPHD+17]. **processor** [AC17]. **Procurement** [HW19]. **Produced**

[GPKL+20]. **Producing** [Kib16]. **Production** [VZR+18]. **Products** [Kat14]. **Profile** [SdSS16]. **Program** [Gen20, Liu17, LS21, RG21, Sch21]. **Programmable** [Mat18]. **Programming** [CSR+23, Gar19, HC16]. **Programs** [BG15]. **Project** [BCHR15, DAT+21, FSV+13, OHM14, SBV+15, vGFvNvA19]. **Propagating** [AV19]. **Proteins** [RSR23]. **Prototypical** [Tau18]. **Provenance** [SZP15]. **Pseudoreplicates** [Gen20]. **psychophysical** [SSB19]. **PsychoPy** [Han16]. **PsychoPy-Based** [Han16]. **Publication** [MYM21, JAGP14]. **Publication-Quality** [MYM21]. **Publishing** [FLMR16a]. **Pulling** [PMM15]. **Py** [FLS+20, HC16, SdSS16]. **Py-ART** [FLS+20, HC16]. **PyBaMM** [SMT+21]. **pycalphad** [OL17]. **Pycuda** [RDBC23]. **PyDDA** [JCL+20]. **pydiffusion** [CZZ19]. **pyfMRIqc** [WL20]. **pyHomogeneity** [HMB23]. **Pymrio** [Sta21]. **pyObs** [Gri18]. **pyparty** [Hug14]. **PyPSA** [BHS18]. **Pyrad** [FLS+20]. **PyRDM** [JAGP14]. **Python** [AMB19, BHF16, BHS18, CRL21, CZZ19, Coe17, DB17, DF21, EML21, GPKL+20, GDP18, HGHR20, HW19, HC16, HKGvS21, HH17, Hug14, HLR15, HMB23, JAGP14, KFV20, KHD+16, LD19, LVH+18, MBA19, MBLA19, MOM21, OL17, OPA+14, PFLG21, PL20, RDB21, SGPHD+17, SdSS16, Sta21, SMT+21, VEV+19]. **Python-based** [JAGP14]. **Pythonic** [JCL+20]. **PyVDT** [Han16].

**QLP** [Cho14]. **qtl** [Bro14]. **Qualitative** [SMG19]. **Quality** [HWX+16, MYM21, WL20]. **Quandle** [FW18]. **Quantification** [RWE+20]. **Quantum** [SBV+15, WS15].

**R** [AL16, BLDC+19, Bro14, CLW19, ES21, FW18, Fer21, FCY20, Grö20, Kel20, PKB19, RLWP16, Sch17, SZH19, WVTTG21, YL17]. **R/qtl** [Bro14]. **Radar** [FLS+20, HC16, MHE+18]. **Radial** [Sar17]. **Random** [OKVK17, RLO18]. **Random-Dot** [RLO18]. **Rapid** [GDP18, SS18]. **Rarefaction** [Gen20]. **Rate** [AV19, CRL21, vGFvNvA19]. **Rates** [Meu16]. **Rating** [Gir14]. **Ratios** [DF21]. **Raw** [WL20]. **Reactions** [dBHD17]. **Ready** [Luk21]. **Ready-to-Use** [Luk21]. **Real** [FLS+20, Gar19, NS20, SGPHD+17, vGFvNvA19]. **Real-Time** [FLS+20, Gar19, NS20, vGFvNvA19, SGPHD+17]. **Recombinant** [RSR23]. **Recommendations** [DLR+15]. **Reconstruction** [OPA+14]. **Recordings** [BBJ17]. **Reduction** [Arg15, MR21]. **Reference** [NHL+22]. **Refinement** [DAF+20]. **Regional** [Sta21]. **Register** [Jay21]. **Registry** [AS15]. **Regression** [BHF16, OI16, QGA19]. **Related** [ML16]. **Reliable** [Cho14]. **Remap** [HFM+21]. **Remote** [Cre22, GRSLL16]. **Repeatable** [WTLB19]. **Repertory** [HB17]. **Replay** [TDX+20]. **Report** [KCWD+16, KCN+16]. **Reporting** [LPG+18]. **Representation** [SR20]. **Reproducibility** [CHI17]. **Reproducible** [Cho14, Coe17, HGS21, KCH+16, SM14b, VBAF16, WTLB19, FSV+13]. **Required** [HB17]. **Resampling** [Gen20]. **Resampling-Based** [Gen20]. **Research** [AMB19, Cho14, CHI17, Far16, FHRS21, KP14, KDH+19, LMOB+22, PGR20, PBF+16, RLO18, SMC+22, SM14b, SMC+22]. **Reservoir** [WLA19]. **Resistivity** [BS22]. **Reslicing** [RDBC23]. **Resolution** [Cre22]. **Resolved** [ZO16]. **Response** [Luk21]. **Results** [FLMR16a]. **Retinal** [CNS+21]. **Retrievals** [JCL+20]. **Return** [Moo21]. **Reveals** [RD22]. **RGC** [CNS+21]. **Rho** [BS22]. **Rhodium** [HGHR20]. **Rich** [RN17]. **River** [WLA19]. **RMPCDMD** [dBHD17]. **Robotic** [JLZ21]. **Robots** [Gar19]. **Robust** [HGHR20]. **Rocket**

[EBS17]. **Rocketry** [EBS17]. **rOpenSci** [BCHR15]. **ROS** [AV19]. **RWebData** [Mat18].

**Sample** [HB17, Kel20, FPF14]. **Sampling** [JNR17, OPA+14]. **Sandbox** [FS19]. **Sandboxing** [WH22]. **SAS** [FCY20, MYM21]. **Scaffolds** [HH15]. **Scalar** [WKC19]. **Scale** [CKDG20, DV14]. **Scales** [DVS20, KWV+20]. **ScatterJn** [ZO16]. **Scatterplot** [ZO16]. **Scatterplot-Matrix** [ZO16]. **Scenario** [SC20]. **Schemes** [BHF16]. **Science** [HKGvS21, KCL+14, KCWD+16, KCN+16, KNG+18, KDH+19, LAB+14, SM14b, WTLB19]. **Scientific** [BL14, Cho14, CB16a, CB16b, DLR+15, GOB16, HWX+16, Juc14, SBV+15, SZP15, TCH14, VHT+19, ZZF+14, JAGP14, Pet14]. **Scientist** [BL14, KHD+16]. **Scientist-Orientated** [KHD+16]. **Scientists** [RG21]. **Scikit** [HLR15]. **Scikit-spectra** [HLR15]. **Scraping** [WH22]. **Screening** [WLA19]. **scriptable** [Coe13]. **Scripts** [HW19]. **Search** [BVL18]. **Second** [Han21, KCWD+16]. **Second-Level** [Han21]. **Sectoral** [KWV+20]. **Sediment** [WLA19]. **Sedimentological** [RG21]. **SedSim** [WLA19]. **SeFo** [Kra16]. **Segmentation** [OKVK17]. **Segmentations** [Law17]. **Segmented** [DAF+20]. **Seismic** [TLR21]. **Self** [LPG+18]. **Self-Reporting** [LPG+18]. **SEMAT** [GA13]. **Sensing** [Cre22]. **sensitive** [Wag17]. **Sensors** [BGB+19, vGFvNvA19]. **Sequence** [Han16]. **Series** [CRL+19, FLMR16b, HMB23]. **Server** [HG23, PdV21]. **Setting** [AV19]. **Setup** [WTLB19]. **Seven** [ST15]. **Shape** [ME14, WL13]. **Shaped** [RDBC23]. **Shapefiles** [Kib16]. **Shelf** [vGFvNvA19]. **Shift** [RD22]. **Short** [TCH14]. **Short-term** [TCH14]. **Signal** [CRL21, DS16]. **Similarity** [Law17]. **SimOutUtils** [FLMR16b]. **Simple** [Gen20, PDN18, Sch21, CNS+21]. **Simplifying** [CCH+14]. **Simulation** [BCOP+18, CZZ19, DBB+14, FLMR16b, HB17, KLC21, LBAS14, SC20, UR19, VBAF16, WLA19, Gil17]. **Simulations** [AMB19, MBLA19, OK20, dBHD17]. **Simulator** [EBS17, NL13, PDN18, TDX+20, HH20]. **Single** [BR21]. **Single-Camera** [BR21]. **Sites** [WH22]. **Six** [EBS17]. **Six-Degrees-of-Freedom** [EBS17]. **Size** [HB17, Kel20]. **Skills** [VLPV19]. **Skipgram** [vGvdB16]. **Slicer** [RDBC23]. **Small** [CB16b]. **SmaRT** [Luk21]. **SmaRT-CIT** [Luk21]. **Smartphone** [Luk21]. **SMOS** [SS18]. **Smurf** [MR21]. **SnappySonic** [TDX+20]. **Social** [Kat14, SC20, SA20]. **Social-Ecological** [SA20]. **Software** [AS15, AMG21, BL14, BCHR15, Cho14, Coe17, CCH+14, CB16a, CB16b, DLR+15, DV14, DBB+14, EA17, FLMR16a, FHRS21, Gir14, Gri18, HH20, KCL+14, KCWD+16, KCN+16, KNG+18, KDH+19, Kib16, KLC21, LMOB+22, LVSF16, Law17, LPG+18, LAB+14, LBAS14, MS14, ML16, MRX14, ME14, OHM14, PAT22, PDR+17, SdSS16, SMC+22, SBV+15, SMG19, Sto16, SM14b, TCH14, UR19, VLG+14, Wan19, WAH+16, WL20, ZZF+14, vGFvNvA19, Coe13, FSV+13, GA13, JAGP14, LV13]. **Soil** [BGB+19]. **Solution** [HS18]. **Solve** [DB17]. **Solvers** [MOM21]. **Solving** [LD19, RN17]. **SomaLogic** [CFC+17]. **Source** [AMG21, AMB19, BVL18, EML21, Gri18, HS18, HYG16, LPG+18, Liu17, LS21, LO16, MOM21, Moo21, PAT22, PDR+17, SA20, SBV+15, Sto16, TCD+22, TCH14, Wan19, AC17, Coe13, FSV+13, SM14a, WAH+16]. **source-to-source** [AC17]. **Spacing** [NHL+22]. **Spatial** [KWV+20, LVH+18, SR20]. **Spatially** [ZO16]. **Specification** [Moo21]. **spectra** [HLR15]. **Spectram** [Rab20]. **Spectroscopic** [FS16, Rab20]. **Spectroscopy** [HLR15]. **Spherical**

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