《雷达学报》常用英文缩写

英文缩写	英文全称	中文名称
ARU	Across Range Unit	徙动效应
ABORT	Adaptive Beamformer Orthogonal Rejection Test	自适应波束形成正交抑制检验
ACE	Adaptive Coherence Estimator	自适应相干估计器
ADBF	Adaptive Digital BeamForming	自适应波束形成
AED	Adaptive Energy Detector	自适应能量检测器
AMF	Adaptive Match Filter	自适应匹配滤波器
ANMF	Adaptive Normalized Matched filter	自适应归一化匹配滤波
ASGSO	Adaptive Step Glowworm Swarm Optimization	自适应步长萤火虫算法
AP	Affinity Propagation	近邻传播
AFRL	Air Force Research Laboratory	空军研究室
ATI	Along Track Interferometry	顺轨干涉
A-ConvNets	an All-Convolutional Networks	全卷积网络
APC	Antenna Phase Center	天线相位中心
ARM	Anti Radiation Missile	反辐射导弹
AEW	Anti-Radiation Missile	反辐射导弹
ACM	Appearance Conversion Machine	表征转换机
Arc-SAR	Arc Synthetic Aperture Radar	圆弧式合成孔径雷达
AE	AutoEncoder	自动编码器
ATR	Automatic Target Recognition	雷达目标识别
BP	Back Propagation	后向传播
BPA	Back-Projection Algorithm	后向投影算法
BP	Basis Pursuit	基追踪算法
BER	Bit Error Rate	误比特率
BCS	Block Compressive Sensing	块压缩感知
BCD	Block Coordinate Descent	坐标下降法
BSBL	Block Sparse Bayesian Learning	块稀疏贝叶斯学习
CCRS	Canada Centre for Remote Sensing	加拿大遥感中心
CFO	Carrier Frequency Offset	载波频偏
CUT	Cell Under Test	测试单元
CDR	China Digital Radio	数字音频广播
CMMB	China Mobile Multimedia Broadcasting	中国移动多媒体广播
CS	Chirp Scaling	频率变标
CFT	Chirp-Fourier Transform	Chirp-Fourier变换
CWM	Choppy Wave Model	尖峰模型

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CPEP	Circular Position Error Probability	圆位置误差概率
CSAR	Circular Synthetic Aperture Radar	圆迹合成孔径雷达
CALIPSO	Clound-Aerosol Lidar and Infrared Pathfinder Satellite Observations	云–气溶胶激光雷达和红外探测者观测
CCD	Coherent Change Detection	相干变化检测
CPI	Coherent Processing Interval	相干处理间隔
CSRDI	Coherent Single Range Doppler Interferometry	相干单距离多普勒干涉
CBSBL	Complex Block Sparse Bayesian Learning	复杂块稀疏贝叶斯学习
CV-CNN	Complex-Valued-CNN	复数卷积网络
CS	Compressed Sensing	压缩感知
CoSaMP	Compressive Sampling Matching Pursuit	压缩采样匹配追踪算法
CUDA	Compute Unified Device Architecture	统一计算设备架构
CT	Computerized Tomography	层析成像
CFAR	Constant False Alarm Rate	恒虚警率
CW	Continuous Wave	连续波
CAE	Convolutional Auto-Encoder	卷积自编码网络
CNN	Convolutional Neural Networks	卷积神经网络
CSIR	Council for Scientific and Industrial Research	南非科学与工业研究理事会
CPS	Cubic Phase Signal	三次相位信号
CLSAR	CurviLinear SAR	曲线合成孔径雷达
CP	Cyclic Prefix	循环前缀
DBN	Deep Belief Network	深度信念网络
DRIE	Deep ReactiveIon Etching	深反应离子蚀刻
DREO	Defence Research Establishment Ottawa	渥太华国防研究机构
DARPA	Defense Advanced Research Projects Agency	美国国防部先进研究项目局
DOF	Degree Of Freedom	自由度
DSAE	Denoising Sparse AutoEncoder	降噪稀疏自编码器
DEKO	Detection of Artificial Objects in Sea Area	海上人造目标检测
DOA	Difference Of Arrival	信号到达角度
DBF	Digital BeamForming	数字波束形成
DEM	Digital Elevation Model	数字高程模型
DTMB	Digital Television Terrestrial Multimedia Broadcasting	数字地面多媒体广播
DAC	Digital to Analog Converter	数字模拟转换器
DDD	Direct Data Domain	直接数据域

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DOA	Direction Of Arrival	波达方向
DGTD	Discontinuous Galerkin Time Domain	时域离散伽辽金法
DCT	Discrete Cosine Transform	离散余弦变换
DPCA	Displaced Phase Center Antenna	相位中心偏置天线
DBZ	Doppler Blind Zone	多普勒盲区
DFM	Doppler Frequency Migration	多普勒徙动效应
EPC	Effective Phase Center	等效相位中心
EC	Eigen Canceller	特征相消器
EM	Electro Magnetic	电磁
EPM	Equivalent Plane Model	等效平面模型
ECV	Essential Climate Variable	基本气候变量
ESPRIT	Estimation of Signal Parameters via Rotational Invariance Techniques	旋转不变性而进行的信号参数估计
EF	Extended Fractal	扩展分形
EOC	Extended Operating Conditions	扩展操作条件
ETT	Extended Target Tracking	多扩展目标跟踪
ECA-B	Extensive Cancellation Algorithm-Block	扩展相消算法
ELM	Extreme Learning Machine	极限学习机
FAE	Feature independent Aperture Evaluator	独立于特征的孔径估计器
FDTD	Finite Difference Time Domain	时域有限差分法
FEM	Finite Element Method	有限元
FETD	Finite Element Time Domain	时域有限元算法
FOG	First-Order Gaussian	1阶高斯
FLOP	Floating Point Operations	浮点运算
FSR	Forward Scatter Radar	前向散射雷达
FRFT	FRactional Fourier Transform	分数阶傅里叶变换
FDA	Frequency Diverse Array	频率分集阵列
FMCW	Frequency Modulated Continuous WAVE	调频连续波
FCM	Fuzzy Clustering Method	模糊聚类
GM-PHD	Gaussian Mixture Probability Hypothesis Density	高斯混合概率假设密度
GSTFRFT	Gaussian Short-Time FRFT	高斯短时分数阶傅里叶变换
GIP	General Inner Product	广义内积
GPIB	General Purpose Interface Bus	通用接口总线
GFM	Generalized Frequency Modulation	广义调频
GLRT	Generalized Likelihood Ratio Test	广义似然比检测器

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GSC	Generalized Sidelobe Canceller	广义旁瓣对消器
GDOP	Geometric Dilution Of Precision	系统几何精度因子
GTD	Geometrical Theory of Diffraction	几何绕射理论
GO	Geometry Optics	几何光学法
Geo-CSAR	Geosynchronous Circular Synthetic Aperture Radar	地球同步轨道圆迹合成孔径雷达
GeoSAR	Geosynchronous Synthetic Aperture Radar	地球同步轨道星载合成孔径雷达
GCOS	Global Climate Observing System	全球气候观测系统
GESS	Global Earthquake Satellite System	全球地震卫星系统
GLEME	Global Lidar Exploration of the Mesosphere	全球中间层激光雷达探测计划
GMES	Global Monitoring for Environment Security	全球环境和安全监视
GNSS	Global Navigation Satellite System	全球卫星导航系统
GPS	Global Positioning System	全球定位系统
GSO	Glowworm Swarm Optimization	萤火虫群智能优化算法
GD	Gradient Descent	梯度下降法
GPU	Graphics Processing Unit	图形处理器
GLCM	Gray-Level Cooccurrence Matrix	灰度共生矩阵
GMTIm	Ground Moving Target Imaging	地面运动目标成像
GMTI	Ground Moving Target Indication	地面运动目标指示
GRP	Ground Penetrating Radar	探地雷达
GBSAR	Ground-Based SAR	地基SAR
HPBW	Half Power Beam Width	半功率波束宽度
HRRP	High Resolution Range Profile	高分辨距离像
HRWS	High Resolution Wide Swath	高分辨率宽测绘带
HOG	Histogram of Oriented Gradient	方向梯度直方图
HCD	Hybrid Change Dectection	混合变化检测
ILSVRC	Imagenet Large Scale Visual Recognition Challenge	ImageNet大规模视觉挑战赛
IR-UWB	Impulse Radio Ultra-Wide Band	脉冲式超宽带雷达
ICA	Independent Component Analysis	独立成分分析
IID	Independent Identical Distribution	独立同分布
IMU	Inertial Measurement Unit	惯性测量单元
INS	Inertial Navigation System	惯性导航系统
IF	Instantaneous Frequency	瞬时频率
ISLR	Integrated SideLobe Ratio	积分旁瓣比
INR	Interference Noise Ratio	干扰噪声比
InSAR	Interferometric Synthetic Aperture Radar	干涉合成孔径雷达

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IRCI	Inter-Range-Cell Interference	距离单元间干扰
ISAL	Inverse SAL	逆激光合成孔径雷达
ISAR	Inverse Synthetic Aperture Radar	逆合成孔径雷达
ISAR	Inverse Synthetic Aperture Radar	逆合成孔径雷达
ITA	Iterative Thresholding Algorithm	迭代阈值算法
JEM	Jet Engine Modulation	喷气引擎调制
JDL	Joint Domain Localized	局域联合处理
KA	Kirchhoff Approximation	基尔霍夫近似法
KA	Knowledge-Aided	知识辅助
KB	Knowledge-Based	基于知识
LS	Least Squares	最小二乘
LiDAR	Light Detection And Ranging	激光成像雷达
LOS	Light Of Sight	雷达视角
LASAR	Linear Array Synthetic Aperture Radar	阵列三维合成孔径雷达
LFM	Linear Frequency Modulation	线性调频调制
LBI	Linearized Bregman Iteration	线性Bregman迭代
LBP	Local Binary Patterns	局部二值模式
LPP	Locality Preserving Projections	局部保持投影
MILO	Magnetic Insulation Line Oscillator	磁绝缘线振荡器
MD	Map-Drift	子孔径相关
MARISS	MARItime Secturity Service	海事安全服务项目
MRF	Markov Random Field	马尔科夫随机场
ML	Maximum Likelihood	最大似然
MPI	Message Passing Interface	消息传递接口
MOCVD	Metal Organic Chemical Vapor Deposition	金属有机化合物汽相淀积
MoM	Method of Moment	矩量法
MOMI	Method of Multiple Interactions	快速迭代法
m-D	micro-Doppler	微多普勒
MMTI	Micro-Motion Target Indication	微动目标指示
MIMIC	Microwave Milimeter wave Monolithic Integrated Circuit	微波毫米波单片集成电路
MPM	Microwave Power Module	微波功率模块
MALD	Miniature Air Launched Decoy	微型空射诱饵
Mini-SAR	Miniature SAR	微型SAR
MDV	Minimum Detectable Velocity	最小可检测速度

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MVDR	Minimum Variance Distortionless Response	最小方差无畸变
MBE	Molecular Beam Epitaxy	分子束外延
MoCo	Motion Compensation	运动补偿
MSTAR	Moving and Stationary Target Acquisition and Recognition	运动和静止目标获取与识别
MTD	Moving Target Detection	动目标检测
MAM	Multi Aperture correlation Method	多孔径相关法
MLP	Multi Layer Perceptron	多层线性感知机
MFAS	Multi-Function Active Sensor	多功能有源传感器
MLFMA	Multilevel Fast Multipole Algorithm	多层快速多极子算法
MP-RTIP	Multi-Platform-Radar Technology Insertion Program	多平台雷达技术嵌入程序
MIMO	Multiple Input Multiple Output	多发多收
MIMO-ISAR	Multiple Input Multiple Output-Inverse Synthetic Aperture Radar	多输入多输出逆合成孔径雷达
MMV	Multiple Measurement Vectors	多量测向量
MFILB	Multiple measurement vectors Fast Improved Linearized Bregman	多量测向量快速改进型线性 Bregman
MFLB	Multiple measurement vectors Fast Linearized Bregman	多量测向量快速线性Bregman
MILB	Multiple measurement vectors Improved Linearized Bregman	多量测向量改进型线性Bregman
MLB	Multiple measurement vectors Linearized Bregman	多量测向量线性Bregman
MUSIC	MUltiple SIgnal Classification	多重信号分类
MA	MultiplicativeArray	乘法阵列
MRCA	Multi-Resolution Composite digital Array antenna	多分辨率复合阵列天线技术
NGR	Next Generation Radar	下一代反导雷达系统
NGA	Niched Genetic Algorithm	小生境遗传算法
NCS	Non-linear Chirp Scaling	非线性频调变标
NMS	Non-Maximum Suppression	非极大值抑制算法
NUDFT	Non-Uniform Discrete Fourier Transforms	非均匀采样快速傅里叶变换
NUFFT	Non-Uniform Fast Fourier Transforms	非均匀快速傅立叶变换
OBCD	Object-Based Change Detection	对象级的变化检测方法
OKA	Omega-K Algorithm	Omega-K算法
OSPA	Optimal Sub-Pattern Assignment	最优子模式分配
OFDM	Orthogonal Frequency Division Multiplexing	正交频分复用

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OMP	Orthogonal Matching Pursuit	正交匹配追踪
OW	Orthogonal Waveforms	正交波形
OSA	Overlapped Subaperture Algorithm	重叠子孔径算法
OTHR	Over-The-Horizon Radar	天波超视距雷达
PCL	Passive Coherent Location	无源相干定位
PSLR	Peak SideLobe Ratio	峰值旁瓣比
PMEPR	Peak-to-Mean Envelope Power Ratio	包络峰均比
P-SCM	Persymmetric SCM	斜对称采样协方差矩阵
PC	Phase Coded	相位编码
PCA	Phase Correction Algorithm	相位修正算法
PD	Phase Difference	相位差
PGA	Phase Gradient Autofocusing	相位梯度自聚焦
PPL	Phase Lock Loop	内部锁相环
PSM	Phase Shift Migration	相移偏移
PO	Phycial Optics	物理光学法
PBCD	Pixel-Based Change Dectection	像素级的变化检测方法
PSF	Point Spread Function	点目标扩散函数
PFA	Polar Format Algorithm	极坐标格式算法
POS	Position and Orientation System	定位定向系统
PCRB	Posterior Cramer-Rao Bounds	优化后验克拉美罗界
PCA	Principal Components Analysis	主成分分析
POSP	Principle Of Stationary Phase	驻定相位原理
PDF	Probability Density Function	概率密度曲线
PHD	Probability Hypothesis Density	概率假设密度
PSWF	Prolate Spheroidal Wave Function	扁长椭球函数
PPM-UWB	Pulse Position Modulation-Ultra Wide Band	脉冲超宽带
PRF	Pulse Recurrence Frequency	脉冲重复频率
QRCM	Quadratic Range Cell Migration	二次范围细胞迁移
RATR	Radar Automatic Target Recognition	雷达自动目标识别
RCS	Radar Cross Section	雷达散射截面积
ROSAR	Radar Open Systems Architecture	开放式雷达体系结构
RBF	Radial Basis Function	径向基函数
RFT	Radon-Fourier Transform	Radon-傅里叶变换
RFRAF	Radon-Fractional Ambiguity Function	Radon-分数阶模糊函数
RFRFT	Radon-Fractional Fourier Transform	Radon-分数阶傅里叶变换

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RFS	Random Finite Set	随机有限集
RCM	Range Cell Migration	距离单元徙动
RD	Range Doppler	距离多普勒
RSS	Received Signal Strength	信号到达强度
RTS	Reconstruction Time Sample	重构时间采样
ReLU	Rectified Linear Units	修正线性单元
RNN	Recurrent Neural Network	循环神经网络
RLS	Recursive Least Square	递归最小二乘方
ROI	Region of Interest	目标感兴趣区域
RS	Regional Surveillance	区域监视
RBM	Restricted Boltzmann Machine	限制玻尔兹曼机
RIP	Restricted Isometric Property	限制等容条件
RMSE	Root-Mean-Square Error	均方根误差
RLBI	Rotated Long Baseline Interferometer	旋转长基线干涉仪
ROSAR	Rotor SAR	旋转式合成孔径雷达
SCM	Sample Covariance Matrix	采样斜协方差矩阵
TomoSAR	SAR Tomography	SAR层析成像方法
SIFT	Scale-Invariant Feature Transform	尺度不变特征变换
SOCP	Second Order Cone Programming	2阶椎规划
SAIP	Semi-Automated IMINT (image intelligence) Processing	半自动化图像智能处理系统
SDP	SemiDefinite Programming	半正定规划
SISAR	Shadow Inverse Synthetic Aperture Radar	阴影逆合成孔径雷达
SNN	Shallow Neural Network	浅层神经网络
SIMONS	ShIp MONitoring System	舰船监视系统
STFT	Short-Time Fourier Transform	短时傅里叶变换
SCR	Signal-to-Clutter Ratio	回波信杂比
SINR	Signal-to-Interference-plus-Noise Ratio	信干噪比
SNR	Signal-to-Noise Ratio	单脉冲信噪比
SLC	Single Look Complex	单视复图像
SMV	Single Measurement Vector	单量测向量
SRDI	Single Range Doppler Interferometry	单距离多普勒干涉
SRMF	Single Range Matched-Filter	单距离匹配滤波
SPM	Small Perturbation Method	微扰法
STAR	Space Time Auto-Regressive	空时自回归

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STAP	Space-Time Adaptive Processing	空时自适应处理
SAE	Sparse AutoEncoder	稀疏自编码器
SBL	Sparse Bayesian Learning	稀疏贝叶斯学习
SPP	Sparsity Preserving Projections	稀疏保持投影
SIRV	Spherically Invariant Random Vectors	球不变随机矢量
sAE	stacked AutoEncoder	栈式自动编码器
SDA	Stacked Denoising Autoencoders	栈式消噪自动编码机
sDSAE	stacked Denoising Sparse AutoEncoder	栈式降噪稀疏自编码器
SOC	Standard Operating Conditions	标准操作条件
SGD	Stochastic Gradient Descent	随机梯度下降
SSA	Stochastic Scattering Approach	随机散射方法
SPGA	Strip Map Phase Gradient Autofocus	条带相位梯度自聚焦
SD	Subspace Detector	子空间检测器
SP	Subspace Pursuit	子空间追踪
SVM	Support Vector Machine	支持向量机
SNN	Synergetic Neural Network	协同神经网络
SAL	Synthetic Aperture Lader	激光合成孔径雷达
SAR/GMTI	Synthetic Aperture Radar/Ground Moving Target Indication	合成孔径/动目标检测
SIAR	Synthetic Impulse and Antenna Radar	综合脉冲孔径雷达
TUAVR	Tactical Unmanned Aerial VehicleRadar	战术无人机雷达
TDL	Tapped Delay-Lines	抽头延迟线
TOPSAR	Terrain Observation by Progressive scan SAR	渐进式扫描SAR地形观测
TIMED	Thermosphere Ionosphere Mesosphere Energetics and Dynamisis	热层–电离层–中间层能力和动力学卫星
TPLBP	Three-Patch Local Binary Patterns	局部纹理特征
TV	Threshold Value	分割阈值
TWI	Through-Wall-Imaging	穿墙成像
TDOA	Time Difference Of Arrival	信号到达时差
TDC	Time Domain Correlation	时域相关
TLS	Total Least Squares	总体最小二乘
TSA	Track Segment Association	中断航迹关联
TLT	Transmission Line Theory	传输线理论
TSVD	Truncated Singular Value Decomposition	截断奇异值分解法
TDOMP	Two Dictionaries OMP	双字典正交匹配追踪算法

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TSLP	Two Sided Linear Prediction	双边线性预测
TWIST	Two-step Iterative Shrinkage/Thresholding	双步迭代收缩阈值法
ULA	Uniform Linear Array	均匀直线阵列
UTD	Uniform Theory of Diffraction	一致性绕射理论
UMPI	Uniformly Most Powerful Invariant	一致最优不变
UAV	Unmanned Aerial Vehicle	无人机
UARS	Upper Atmosphere Research Satellite	高空大气研究卫星
VEDs	Vacuum Electronic Devices	真空电子器件
VTS	Vessel Tracking System	船只跟踪系统
ViSAR	Video Synthetic Aperture Radar	视频合成孔径雷达
WCM	Waveform Covariance Matrix	波形协方差矩阵
WT	Wavelet Tranform	小波变换
WCA	Weighted Curvature Approximation	加权曲率近似方法
WLS	Weighted Least Squares	加权最小二乘
WLSE	Weighted Least-Squares Estimation	加权最小二乘法估计
WVD	Wigner-Ville Distributed	魏格纳分布
ZF	Zero-Forcing	降维算法