

# Acronyms

- ART algebraic reconstruction technique. 162, 164, 166
- BOLD blood-oxygenation-level dependent. 117
- CDF cumulative distribution function. 38, 40, 41
- COPD chronic obstructive pulmonary disease. 202
- CT computed tomography. 10, 12, 39, 63, 122, 127, 134, 136, 147–151, 155, 156, 161, 164, 165, 167, 171, 172, 174, 207, 210, 213, 219, 230–234
- DFT discrete Fourier transform. 28
- DNA deoxyribonucleic acid. 122
- DSA digital subtraction angiography. 122, 144
- DTFT discrete-time Fourier transform. 28, 33
- FDG fludeoxyglucose. 227, 228
- FFT fast Fourier transform. 25, 30
- fMRI functional magnetic resonance imaging. 117
- FPD flat panel detector. 134, 135, 141, 143
- FWHM full width at half maximum. 215
- GRE gradient echo. 107, 109, 114, 117
- HU Hounsfield unit. 39, 155, 176, 177, 186
- IR infrared. 120
- MAP maximum a posteriori. 233, 234
- MLEM maximum likelihood expectation maximization. 222, 224–226, 234
- MR magnetic resonance. 91, 95, 96, 99, 100, 227, 232, 233
- MRI magnetic resonance imaging. 8, 91–93, 98, 100, 102, 105, 107, 109, 110, 116
- MTF modulation transfer function. 169, 170
- OCT optical coherence tomography. 12, 251, 252, 254–259
- PD proton density. 99, 100

- PET positron emission tomography. 208, 212, 217–219, 222, 227, 228, 230–233
- PSF point spread function. 169, 170, 214–217, 220, 222, 224, 227
- RF radio frequency. 92–97, 99–101, 106–109, 116
- SE spin echo. 107
- SENSE sensitivity encoding. 110
- SIFT scale-invariant feature transform. 64
- SNR signal-to-noise ratio. 136, 137, 142
- SPECT single-photon emission computed tomography. 12, 208, 209, 212, 216–219, 222, 227, 228, 230–234
- SURF speeded-up robust features. 64
- TE echo time. 99, 100, 107
- TFT thin-film transistor. 135
- TIE transport of intensity equation. 82, 84, 85
- TLI Talbot-Lau interferometer. 194, 197
- TOF time-of-flight. 63, 66, 67, 116, 218, 219
- TR repetition time. 99, 100, 107–109, 115
- US ultrasound. 12
- UV ultraviolet. 120

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