

# Two Interesting DSP Tutorials: signal energy and ZCRs

The articles referenced below play the role of tutorials that introduce some feature extraction (FE) approaches based on signal energy and zero-crossing rates (ZCRs). They offer cutting-edge algorithms in which the feasibility of a balance among *creativity*, *simplicity*, and *accuracy* constitutes the main motivation. The theory presented, smoothly shown and accompanied by numerical examples, is complemented with source-codes in C/C++ programming language and interesting applications on neurophysiological signal processing, speech processing and image processing.

GUIDO, R.C. A Tutorial on Signal Energy and its Applications. *Neurocomputing*, v. 179, pp.264-282, 2016.

[available at: <http://www.sciencedirect.com/science/article/pii/S0925231215019281> ]

[short corrigendum at: <http://www.sciencedirect.com/science/article/pii/S0925231216300911> ]

GUIDO, R.C. ZCR-aided Neurocomputing: a study with applications. *Knowledge-based Systems*, v. 105, pp. 248-269, 2016.

[available at: <http://www.sciencedirect.com/science/article/pii/S0950705116301009> ]