

## Publications

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*Article*

**Hybrid Bispectrum-Waterfall Feature Extraction with CS-DSB for RF Receiver**

N.Y. Gasparyan, A.A. Hakhounian, E.R. Sivolenko

Armenian Journal of Physics 2025 43-47

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*Article*

**Analysis of Harmonic Signals in Non-Real Time of Moving Targets in Complex Environments Using Higher-Order Statistics in LabVIEW [Анализ гармонических сигналов в нереальном времени движущихся целей в сложных средах с использованием статистики более высоко]**

A. Hakhounian, M. Barseghyan, N. Gasparyan, B. Hovhannisyanyan, E. Sivolenko

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 408-412

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*Article*

**Techniques for Locating GPS Jammers using GNU Radio**

B. Hovhannisyanyan, M. Sahakyan, V. Mkhoyan, E. Sivolenko, A. Aharonyan, S. Makarov

Communications of the Byurakan Astrophysical Observatory 2024 409-411

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*Article*

**Combining Bispectral Analysis with the Levenberg-Marquardt Algorithm for Enhanced Non-linear Signal Processing in Astronomy**

E. Sivolenko, N. Gasparyan, A. Aharonyan, V. Avetisyan, M. Vinnichenko

Communications of the Byurakan Astrophysical Observatory 2024 402-408

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*Article*

**Statistical analysis of the electroencephalographic signals**

Babken Hovhannisyanyan, Tigran Hovhannisyanyan, Armen Makaryan, Eduard Sivolenko, Vanand Mkhoyan

IET Conference Proceedings 2024 23-25

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*Article*

**More accurate and effective monitoring of moving targets in complex environments using “spectral mask” for harmonic signatures using higher-ordered statistics**

Eduard Sivolenko, Arsen Hakhounian, Naira Gasparyan, Mane Barseghyan, Hakob Babayan

IET Conference Proceedings 2024 49-52

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*Article*

**SC-DSB signal as a probe signal for testing nonlinearity in electronic circuits**

Naira Gasparyan, Arsen Hakhounian, Eduard Sivolenko, Mane Barseghyan

IET Conference Proceedings 2024 75-78

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*Article*

**Registration of Brain Radio Signals and Their Bispectral Analysis**

B. A. Hovhannisyan, H.L. Ayvazyan, S.V. Antonyan, A. H. Makaryan, E. R. Sivolenko, G. A. Tsaturyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2022 87-90

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*Article*

**Extracting Human Brain Signals from the EEG Records Using LabVIEW and Advanced Signal Processing**

Babken Hovhannisyan, Eduard Sivolenko, Armen Makaryan, Hamlet Ayvazyan, Andrei Medvedev,

Valentina Temkina

Springer Proceedings in Physics (International Youth Conference on Electronics, Telecommunications and Information Technologies)

2022 183-190

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*Article*

**РЕГИСТРАЦИЯ РАДИОСИГНАЛОВ МОЗГА И ИХ БИСПЕКТРАЛЬНЫЙ АНАЛИЗ**

Г.Л. АЙВАЗЯН, С.В. АНТОНЯН, А.О. МАКАРЯН, Б.А. ОГАНЕСЯН, Э.Р. СИВОЛЕНКО, Г.А. ЦАТУРЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2022

125-130

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*Conference*

**AM signal finding in the environment full of micro doppler shifts using bispectral analysis.**

Babken Hovhannisyan, Sivolenko Eduard, Andrey Medvedev

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