

Babken Arthur Hovhannisyan

Institute of Physics

Chair of Radiophysics and Electronics

Assistant

✉ b.hovhannisyan@ysu.am



Education

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2019 - 2022
Degree name	PhD student

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2017 - 2019
Degree name	Masters

Institution	Yerevan State University
Faculty	Faculty of Radiophysics
Date	2013 - 2017
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2022
Degree name	Candidate
Specialty	Physico-mathematical sciences
Scientific Supervisor	Armen Makaryan
Research Topic	INVESTIGATION OF BIOLOGICAL SIGNALS USING HIGHER-ORDER SPECTRAL ANALYSIS

Language skills

Հայերեն Русский English

Work experience

Institution	YSU
Period of time	2022 till now

Rank/degree	lecturer
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Institution	Institute of Radiophysics and Electronics
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Period of time	2022 - 2025
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Rank/degree	Junior Researcher
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Institution	Russian-Armenian University
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Period of time	2022 till now
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Rank/degree	Lecturer
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Institution	Aviation University named after A. Khanperyants
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Period of time	2020 - 2021
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Rank/degree	Lecturer
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Institution	National instruments
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Period of time	2019 till now
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Rank/degree	engineer
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Institution	LT-Pyrkal
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Period of time	2016 - 2019
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Rank/degree	engineer
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Scientific interests

- Digital processing of biological signals
- Statistical Signal Analysis



Membership

Institution	Council of Young Scientists of RA National Academy of Sciences
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Period of time	2022 till now
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Institution	Member of YSU Board of Trustees
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Period of time	2017 - 2022
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Institution	Member of academic council of Radiophysics Faculty
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Period of time	2014 - 2022
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State awards and honorary titles

2021 "Annual educational award for the best students in the field of IT" in the "Best PhD" category

2019 YSU "Best Student-2019"

2019 "Bronze medal" from Yerevan State University

Publications

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. Hakhoumian, M. Barseghyan, N. Gasparian, B. Hovhannisyan, E. Sivolenko

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

Article

Techniques for Locating GPS Jammers using GNU Radio

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

Communications of the Byurakan Astrophysical Observatory 2024 409-411

Article

Biosignal processing using machine learning methods

A. Mkoyan, A. Manasyan, A. Makaryan, B. Hovhannisyan, T. Hovhannisyan, S. Khachunts

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 22987012/ 4-6

Article

Biosignal processing using machine learning methods

T. Hovhannisyan, A. Makaryan, B. Hovhannisyan, S. Khachunts, A. Mkoyan, A. Manasyan

International Conference on Microwave & THz Technologies, Wireless Communications and OptoElectronics (IRPhE 2022)
2023 3

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

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

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

Article

Study of Brain Radio Signals Using Bispectral Analysis

В.А. Hovhannisyan

Armenian Journal of Physics 2021 138-141

Article

ЧАСТОТНО-ВРЕМЕННОЙ АНАЛИЗ ЭЛЕКТРОКАРДИОГРАММ

Б.А. ОГАНЕСЯН, А.О. МАКАРЯН, Т.Н. ОГАНЕСЯН

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2020
575-581

Conference

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

Babken Hovhannisyan, Sivolenko Eduard, Andrey Medvedev
