

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

Institution Institute of Radiophysics and Electronics

Period of time 2022 till now

Rank/degree Junior Researcher

Institution Russian-Armenian University

Period of time 2022 till now

Rank/degree Lecturer

Institution Aviation University named after A. Khanperyants

Period of time 2020 - 2021

Rank/degree Lecturer

Institution National instruments

Period of time 2019 till now

Rank/degree engineer

Institution LT-Pyrkal

Period of time 2016 - 2019

Rank/degree engineer



Scientific interests

- Digital processing of biological signals
 - Statistical Signal Analysis
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Membership

Institution Council of Young Scientists of RA National Academy of Sciences

Period of time 2022 till now

Institution Member of YSU Board of Trustees

Period of time 2017 - 2022

Institution Member of academic council of Radiophysics Faculty

Period of time 2014 - 2022



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

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

B.A. 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 Hovhannisyán, Sivolenko Eduard, Andrey Medvedev
