

Laboratory of Mathematical Problems of Signal Processing

Institute of Mathematics and Mechanics,

The Ministry of Science and Education of the Republic of Azerbaijan

**BRIEF SEMI-ANNUAL REPORT ON SCIENTIFIC & ORGANIZATIONAL
ACTIVITIES FOR THE 2023**

During the reporting period 2 research works have been done in the field of "Application of modern mathematical methods to various identification problems" by the employees of the Laboratory of Mathematical Problems of Signal Processing.

There are 3 employees in the laboratory.

1. Sadigova Sabina - PhD, associate prof.
2. Zabidov Zakir - PhD, senior scientific researcher
3. Gadirova Xayala - lab. assistant

During the reporting period, the laboratory staff published 4 scientific articles (3 abroad, WOS-2) and 8 theses (3 abroad) in the proceedings of various international conferences. 3 articles were accepted for publication and 6 articles were sent for publication.

| PROGRAMMES and GRANTS | | |
|---|--|--|
| "Karabakh is Azerbaijan". grant competition by the Azerbaijan Science Foundation! (AEF-MQM-QA-1-2021-4(41)-8/02/1-M-02, 24.11.2022) | "Application of modern mathematical methods to the assessment of the current state and dynamics of agricultural fields according to spectral images" | Zakir Zabidov (participant) Xayala Gadirova (participant) |

| PEDAGOGICAL ACTIVITIES | |
|--------------------------------------|--|
| PhD, associate prof. Sabina Sadigova | - Institute of Mathematics and Mechanics (master degree, 1st course) - Khazar University |
| Xayala Gadirova | -Odlar Yurdu University - Khazar University |

| Membership in organizing committees of international conferences | |
|---|--|
| PhD, associate prof. Sabina Sadigova | 6th International E-Conference on Mathematical Advances and Applications, May 10-13, 2023, Istanbul / TURKEY |

| SOCIAL ACTIVITIES | |
|---|--|
| PhD, Associate Prof. Sabina Sadigova | <ul style="list-style-type: none"> • Member of the Academic Council of the Institute of Mathematics and Mechanics of ANAS; • Secretary of the Women's Council of the Institute of Mathematics and Mechanics of ANAS; • Editorial Assistant of Azerbaijan Journal of Mathematics; • Executive Editor of Caspian Journal of Applied Mathematics, Ecology and Economics; • Editorial Assistant of Journal of Contemporary Applied Mathematics. |

Head of the laboratory :

PhD, Associate Prof. Sabina Sadigova