

Laboratory of Mathematical Problems of Signal Processing

Institute of Mathematics and Mechanics,

National Academy of Sciences of Azerbaijan

BRIEF ANNUAL REPORT ON SCIENTIFIC & ORGANIZATIONAL ACTIVITIES FOR THE 2022

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 4 employees in the laboratory.

1. Sadigova Sabina – PhD, associate prof.
2. Zabidov Zakir – senior scientific researcher
4. Jafarova Sabina – senior lab. Assistant
5. Gadirova Xayala – lab. Assistant

During the reporting period, the laboratory staff published 1 Book Chapter, 7 scientific articles (5 abroad) (WOS-6) and 8 theses (6 abroad) in the proceedings of various international conferences.

PROGRAMMES and GRANTS		
1st Azeri-Russian International Grant Competition organized by the Science Development Foundation under the President of the Republic of Azerbaijan	Methods of the theory of functions in the theory of operators	Sabina Sadigova (participant)
A project within the framework of the joint cooperation programme between NAS of Azerbaijan and The Scientific and Technological Research Council of Turkey ((TÜBİTAK) <i>(agreed on 23.10.2019)</i>	Frame properties of the system of eigenfunctions of a second order discontinuous differential operator	Zakir Zabidov (participant) Sabina Sadigova (participant)

PEDAGOGICAL ACTIVITIES	
PhD, associate prof. Sabina Sadigova	Khazar University
Xayala Gadirova	Odlar Yurdu University

Membership in organizing committees of international conferences	
PhD, associate prof. Sabina Sadigova	5th International E-Conference on Mathematical Advances and Applications, May 11-14, 2022, 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; • Member of Trade Union at the Institute of Mathematics and Mechanics, National Academy of Sciences of Azerbaijan; • 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.

During the reporting period Z.C. Zabidov dissertation entitled by “"Application of mathematical and aerospace methods to problems of optical monitoring of urban air" defense and the preliminary discussion of S.R. Sadygova's dissertation on the topic "On the frameness of systems in linear topological spaces" were held.

Head of the laboratory :

PhD, Associate Prof. Sabina Sadigova