

Laboratory of Mathematical Problems of Signal Processing

Institute of Mathematics and Mechanics,

National Academy of Sciences of Azerbaijan

BRIEF REPORT ON SCIENTIFIC & ORGANIZATIONAL ACTIVITIES FOR THE 2018 YEAR

In 2018 the research works have been done in the field of Frame theory and its applications by the employees of the Laboratory of Mathematical Problems of Signal Processing.

There are 5 employees in laboratory, including 1 PhD, 1 researcher and 3 laboratory assistants.

During the reporting period, the laboratory staff published 3 scientific articles (1 abroad) (TR-3, SCOPUS-2), and 11 theses in the proceedings of various international conferences.

Two methodical instructions have been published.

Bilalov B.T., Zabidov Z.C., Nağıyev H.Ə., Sadıqova S.R. Siqnallar. Təsnifatı. Veyvlet analiz. Bakı-2018, 133 s.

- 1) Bilalov B.T., Zabidov Z.C., Nağıyev H.Ə., Sadıqova S.R., Qasimov Z.A., Quliyev A.M. Peyk verilənlərinə görə torpaq şoranlığının identifikasiyasının riyazi metodları. Bakı-2018, 85 səh.

Every Tuesday at 12.00 and every Thursday at 11.00 a.m., regularly holds seminars entitled "Frame theory and applications".

Head of the laboratory Sabina Sadigova is engaged in education works in Khazar University.

Zakir Zabidov, researcher of the laboratory, is on the verge of defending his thesis for PhD.

The senior laboratory assistant of the laboratory, as well as the second-year master Jafarov Sabina, is the participant of the project "My First Grant", announced by the *Science Development Fund* under the President of the Republic of Azerbaijan. In the reporting year, she defended her master dissertation on the topic "Bases of perturbed sine and cosine systems in weighted Lebesgue spaces".

The assistant of the laboratory, as well as the first-year master, Kadirova Khayala, received an incentive prize at the "Master-2018" contest among students studying at the Master's program of the National Academy of Sciences of Azerbaijan.

Head of the laboratory :

PhD, Associate Prof. Sabina Sadigova