



Faculty of Cybernetics

<http://cyb.univ.kiev.ua>

Department of Applied Statistics

<http://applstat.univ.kiev.ua>

(System analysis specialization)



Data analysis.

Development of problem oriented statistical software.

Various methods and algorithms allow to provide a statistical treatment of information regardless of its nature. The staff of Department of Applied statistics is developing the modern theory and its application in different important problems:

- correlation analysis;
- regression analysis;
- analysis of variance;
- covariation analysis;
- analysis of time series;
- discriminant analysis,;
- cluster analysis;
- factor analysis;
- theory of experiment planning and so on.



This allows us to provide efficient solutions for wide range of problems:

- development of mathematical models of complex structures;
- recurrent estimation of parameters/states of technical objects under uncertainty and violation of classical assumptions;
- analysis of parameters estimation procedures convergence;
- multidimensional statistical analysis;
- development of economics and financial characteristics mathematical models;
- theory of pattern recognition and artificial intelligence;
- statistical analysis of random processes;
- optimal experimental design planning;
- development of problem oriented statistical software.



This results can be applied in aircraft development, astronautics, shipbuilding, medicine, economics, social researches, geodesies, metrology, financial researches and many other areas.

Actual results and developments are presented on international conferences and workshops on applied statistics.