

Olga Samokhina

Education:

2006–2011 – Moscow State University of Economics, Statistics and Informatics (MESI), Department of Computer Technologies. Degree with honors of engineer, specialty “Automated systems of Information Processing and Management”.

Research and management:

- Since 2010–until the present day – participation as an expert in the creation and design of digital thematic maps in the creation of multidisciplinary analytical GIS “Data of Earth’s Sciences on the territory of Russia” and the development of the geoportal GC RAS (<http://gis.gcras.ru/>);
- In 2011–2013 – organization of two international conferences: International workshop “Artificial Intelligence in the Earth's Magnetic Field Study. INTERMAGNET Russian Segment”, Partnership conference “Geophysical observatories, multifunctional GIS and data mining”;
- In 2011–2013 – participation in the Federal Target Program “Research and development on priority directions of development of the scientific-technological complex of Russia for 2007–2013”, exploratory research works on the lot code “2013-1.5-14-515-0040” “Scientific and methodological precautions of medical and ecological safety of the territories on the basis of assessment of the influence of natural, social, economic and technological changes in the environment on the population” on the topic: “Intelligent medical geoinformation system for assessment and prediction of medical and environmental status of the Russian Federation territories and the influence of natural, social, economic and technological changes in the environment on the population”;
- 2013 participation in the creation and production of electronic (Russian and English) versions of the Earth’s Magnetic field Atlas.
- 2014–2016 – participation in the project of FTP Development of the monitoring methods and technologies of extreme natural hazards in the form of magnetic field anomalies, significant seismic events and floods in the rivers of Russia using ground and satellite data. Ref: 2014-14-579-0057;
- 2014–2015 – conducting a project with the Mark Kaufman charitable foundation to develop Web-services on the portal gis.gcras.ru, providing on-line access to a set of maps representing child morbidity of oncology and mortality in the regions of Russia in recent years.
- Participation in more than 20 international and national conferences;

- Participation in three RFBR grants, in a number of research programs and programs of RAS.

Publication:

Co-author of more than 30 scientific papers, including two chapters of the monographs.

Information about patents:

- Certificate of database state registration №2013621007 “Database of geomedical statistics for intellectual medical geoinformatics system (IMGIS) IMGISDATA 1.0” of 26/08/13;
- Certificate of state registration of the computer program “Program of data visualization for spherical screens Orbus (ORBUS)” №2014618293 of 14/08/14.

Tuition:

Delivering lectures on the topics “Astronomy”, “Ecology” and “Global catastrophes” at educational institutions and children’s development center in Moscow for pupils of preschool and high school students.

Scientific interests:

Geoinformatics; computer technologies; GIS; digital data processing; up-to-date information technologies; astronomy; innovative technologies; geodata preparation, processing and analysis; methods of geodata visualization; technologies of the digital maps creation; spherical screens for data visualization, MEDGIS.