

### Publications by Alexei Ioudovski:

1. Synthesis of Multi-Spectral Images - *Proc. of Inst. of Optics. Tomsk Branch of the National Academy of Sciences* - 1985, pp.102-113 (with co-authors)
2. Parametrical Model of Radiation in the Ocean-Atmosphere System - *Proc. of Inst. of Optics. Tomsk Branch of the National Academy of Sciences*, 1988, pp.89-92 (with co-authors).
3. Computer Synthesis of an Image of a Roughened Sea Surface - *Image Transfer in the Atmosphere*. Tomsk, 1988, pp.108-111.
4. Computer Simulation of Images for Estimating the Performance of Cloud Removal Algorithms in the Images Obtained by the Space-borne Radiometers - *Proc. Of Inst. of Marine Fisheries and Oceanography*. - Moscow, 1989, pp 1-18 (with co-authors).
5. Signal and Image Processing for Wind Field Determination over the Ocean in Visible Range. A Review. - *Proc. of Research Inst. of Marine Industry*, Moscow, 1989, pp. 1-16
6. Signal Processing for Wind Field Determination Using Space-borne Side-Looking Imaging Radar Data. - *Proc. Conf. Remote Sensing and Data Processing* - Ryazan, 1989, pp.51-53.
7. Real Time Software for Receiving Satellite Data (NOAA series). - *Proc. Moscow Physics Inst.*, Moscow, 1989, pp. 43-46.
8. Algorithms for Cloud Removal and Sea Surface Temperature Mapping. - *Proc. Inst. of Marine Fisheries and Oceanogr.*, Moscow, 1990, pp.41-56. (with co-authors)
9. System for Automated Sea Surface Temperature Mapping Using NOAA Satellite Data - *Proc. of Inst. of Marine Fisheries and Oceanogr.*, Moscow, 1990, 76p. (with co-authors)
10. Algorithms for Processing of Signals From Space- and Air-borne Radars, SAR and UHF Radiometers for Retrieval of Wind Field Over the Ocean. A Review. - *Proc. Of Research Inst. of Marine Industry*, Moscow, 1990. Pp. 1-22.
11. Remote Sensing of the Ocean's Upper Layer - *Nauka Publishers*, Novosibirsk, 1991. 149 p. (with co-authors):

#### Chapters by **A. Ioudovski**:

- Introduction to Linear Statistical Estimation Methods
- Mathematical Model for Radiation of the Ocean in Infrared Range
- Computer Simulation of Radiation Field Over the Ocean
- Mathematical Model of the Image of a Sea Surface
- Determination of Wind Field Over the Ocean in Visible Range
- Determination of Wind Field Over the Ocean in UHF Range  
and by using Synthetic Aperture and Side-Looking Imaging Radars