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Advanced Technologies in Aerospace, Mechanical and Automation Engineering

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«MIST: Aerospace - 2021: Advanced Technologies in Aerospace, Mechanical and Automation Engineering»

«The use of geoinformation technologies for monitoring and assessing the consequences of emergency situations»

Dmitriy Andreev

Problem statement

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- Timely assessment of the risks associated with the occurrence and development of emergencies;
- Identification of factors (both positive and negative) that can influence the outcome of emergencies;
- Development of measures, the purpose of which will be to reduce possible risks in case of emergencies;
- Evaluation of the effectiveness of the proposed measures.

Solution methods

- Clarification of the area of the territory that turned out to be flooded,
- Monitoring how emergencies develop,
- Analysis of a possible emergency forecast,
- Visualization of emergency situations through the use of geoinformation technologies.

Conclusions

Results, implementation

- The use of GIS for monitoring and assessing emergencies has undeniable advantages, among which are the following:
- Timely receipt of relevant data (data is constantly updated and can be monitored several times a day);
- Ease and accessibility for all users of the world wide web;
- Access to stitching of original images for many territories in a convenient synthesis of channels.

Contacts

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