

**BOOK OF ABSTRACTS OF THE  
3RD INTERNATIONAL  
CONFERENCE ON SUSTAINABLE  
FUTURES: ENVIRONMENTAL,  
TECHNOLOGICAL, SOCIAL AND  
ECONOMIC MATTERS**



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Technological, Social and Economic Matters**

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**Ed. by Anna Iatsyshyn**

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## Preface

This Collection contains materials (abstract) of the **3RD INTERNATIONAL CONFERENCE ON SUSTAINABLE FUTURES: ENVIRONMENTAL, TECHNOLOGICAL, SOCIAL AND ECONOMIC MATTERS (ICSF 2022)**, which took place in Ukraine, 24-27 May 2022.

The International Conference on Sustainable Futures: Environmental, Technological, Social and Economic Matters (ICSF) is a peer-reviewed international conference, which is the premier interdisciplinary forum for social scientists, life scientists, engineers, and practitioners to present their latest research results, ideas, developments, and applications. The ICSF occupies contributions in all aspects of sustainable development, focused on the intersection of sustainability, environment and technology, and their larger implications for corporations, government, education institutions, regions and society both at present and in the future.

The conference included the following workshops:

- ✓ Sustainable Development of Mining Science and Industry (SusDevMiningSci'2022) Kryvyi Rih (<https://sites.google.com/knu.edu.ua/nigri-ecochemsd-ws2021/>);
- ✓ Geography for Sustainable Development (GSD-2022) Kryvyi Rih (<https://bondarenkoolga9.wixsite.com/gsd-2022>);
- ✓ Biodiversity and Ecosystems Sustainability (BiodES-2022) Melitopol (<http://biodes.mdpu.org.ua/>);
- ✓ Water Management and Environmental Engineering (WaterManEnvE-2022) Rivne (<https://sites.google.com/nuwm.edu.ua/watermanenve-ws2022/>);
- ✓ Innovative Approaches for Solving Environmental Issues (IASEI-2022) Kyiv (<https://www.igns.gov.ua/en/iasei-ws-2022/>).

The Collection includes selected 104 papers, which were carefully reviewed out of 169 papers submitted to the conference. Submission, selection and "blind review" of conference materials took place on a specialized platform Morressier (<https://www.morressier.com>).

ICSF 2022 was organized by the Academy of Cognitive and Natural Sciences (Kryvyi Rih) in cooperation with Kryvyi Rih National University (Kryvyi Rih), Kryvyi Rih State Pedagogical University (Kryvyi Rih), National University of Water and Environmental Engineering (Rivne), Bogdan Khmelnytsky Melitopol State Pedagogical University (Melitopol) and State Institution "The Institute of Environmental Geochemistry of National Academy of Sciences of Ukraine" (Kyiv).

The success of ICSF 2022 depends on the contribution of many people and organizations. With this in mind, we thank all the authors who submitted papers to the conference. The quality of the submitted works this year remains high, and we are satisfied with the quality of the result and the work process. The Organizing Committee is also grateful to all members of the program committee for their help and support. The Organizing Committee is responsible for reviewers who have voluntarily given their own precious time to evaluate the materials and provided useful feedback to the authors.

In addition, any conference will be successful without the strong support of its participants. Thank you to all participants for submitting materials to the conference.

ICSF 2022 Conference Committee

## Use of mobile phone cameras for mining

**O V Dolgikh<sup>1</sup>, L V Dolgikh<sup>1</sup>, T O Podoinitsyna<sup>1</sup>, O A Kremer<sup>1</sup>  
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*Introduction.* The 21st century has made adjustments to most of the methods for performing surveying work, which has affected the increase in their efficiency. Most surveying tasks today are solved in a much shorter time while maintaining the required accuracy. The improvement of remote methods for surveying mining facilities deserves attention, which is especially important when performing observations in zones of shifts and deformations and when drawing up plans for objects where it is dangerous for people.

*Aim is* to analyze remote methods of shooting from the air and the ground using various cameras and choose the most appropriate camera for solving a particular task, since each task is solved under certain conditions in compliance with the requirements of the mine surveyor's instructions.

*Methodology.* During the research, the authors used methods of analysis of their own practical experiments and the experience of leading scientists in this field. The obtained data are analytically worked out and substantiated.

*Results.* Practical work on surveying objects of mining enterprises - quarries and dumps, was carried out using digital photogrammetry methods based on modern technologies for obtaining images and processing them. Experimental survey work was carried out with the help of various cameras. According to the images obtained by different cameras, digital models were built, characterized by a certain accuracy of determinations on them and different quality. For example, digital SLR cameras make it possible to obtain digital models of high quality and accuracy sufficient to solve any surveying task, but they also have a high cost. The studies also used various mobile phones with cameras with sufficiently high quality characteristics. But the results obtained for the processing of digital models showed significantly lower accuracy rates. This does not mean that they cannot be useful in mine surveying. Mobile phone cameras can be used for tasks that do not require high accuracy.

*Conclusions.* Based on the results of the research, the qualitative characteristics of digital models built from images obtained by different cameras, both SLR and mobile phone cameras were established. The range of tasks of the mine surveying service has been established, which can be solved using images obtained by a mobile phone camera.

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Assoc. Prof. Leon A. Abdillah is active as speaker, author, editor, reviewer, committee on a number of journals (Scopus, Clarivate Analytics/WoS, SINTA, etc.), conferences/seminars [AIP, Atlantis Press, EAI, IEEE, IOP, SCITEPRESS], books/book chapters, etc. He includes 500 Indonesian scientists (Webometrics, 2015), examiner at Monash University (Group of Eight), Australia, and mentor at Publons, New Zealand. He also often gets awards for the best undergraduate and post graduate categories, the best computer science lecturer, the best reference article, excellent paper, top reviewer, selected article, SINTA Award, The Best Scientist, Research & Innovation Award, etc. His research lately has been related to Human-Computer Interaction, UI-UX, Financial Technology (Fintech), Social Media, E-Learning, Knowledge Management Systems, Management Administration, etc.

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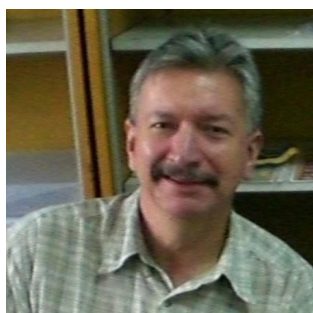
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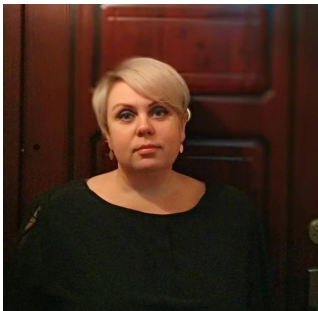
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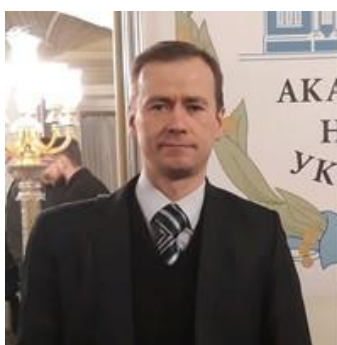


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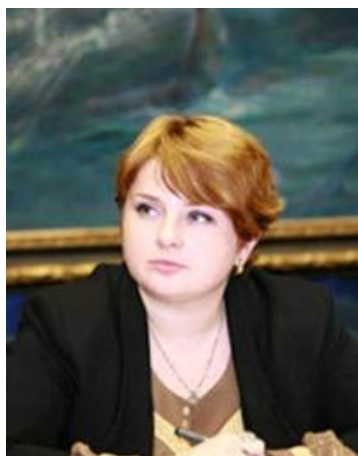
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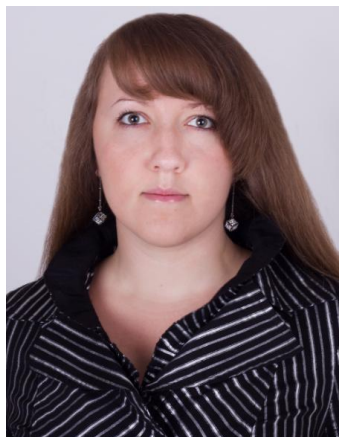
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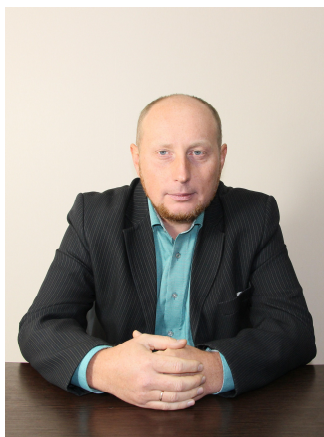


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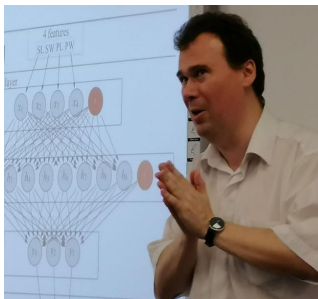
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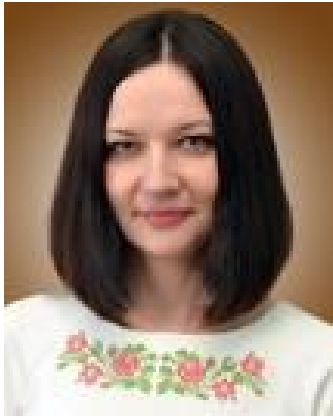
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