Contents

Dorota Więcek, Anna Burduk and Ivan Kuric: The use of ANN in improving efficiency and ensuring the stability of the copper ore mining process 1

Elena Pivarčiová, Kseniia Domnina and Zuzana Ságová: Design of the construction and research of vibrations and heat transfer of mine workings 15

Patrycja Hąbek, Witold Bialy and Galina Livenskaya: Stakeholder engagement in corporate social responsibility reporting. The case of mining companies 25

Zuzana Šimková, Michaela Očenášová, Dominik Tudoš and Barbora Róth: The political frame of the European Union for mining of non-energetic raw materials 35

Peter Janič, Slávka Jadlovská, Jakub Zápač and Lukáš Koska: Modeling of underground mining processes in the environment of MATLAB / Simulink 44

Mariusz Andrzejewski, Patryk Dunal and Łukasz Popławski: Impact of changes in coal prices and CO₂ allowances on power prices in selected European Union countries – correlation analysis in the short-term perspective 53

Matej Kucera, Milan Sebok, Miroslav Gutten, Daniel Korenciak and Stanislav Lukac: Possibilities of Increasing of Ecological Conditions in Mining Environment by Reconstruction of the Present Engine DH30 63