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Software Engineering Application In Metallogeny: Example Of 'metclass'

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Metallogeny is the science that studies the useful or valuable mineral deposits and their modes of formation. In 2010, H. Dill offers the largest classification of these deposits for all chemical elements of the periodic table that can be concentrated in minerals and rocks in the earth's crust. He calls this classification: the chessboard classification [1].

"MetClass" is a software which aims to automat and optimize the rendering of this classification. Its main purpose is to decrease the complexity of its use, by reducing the research efforts of information while maximizing the relevance of the results . In its current forms (paper or digital format PDF), the chessboard shows clear mobility and operability weaknesses. The automation of the chessboard serves not only to cover these two drawbacks, it also allows to highlight new information such as the frequency of the existence of a given type of deposit, and offers new options such as search by keyword or statistical studies. Information can be added to the software's database, what makes it useful for both, specialists in the field of mining sector, or students in Geosciences.

Keywords: metallogenic classification, software, automation, database.