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## PRIMJENA VIŠEKRITERIJSKIH METODA U GEOFIZIČKIM ISTRAŽIVANJIMA

### **Sažetak:**

*Uobičajeni postupci usporedbe, rangiranja i odabira optimalne metode za provođenje geofizičkih istraživanja svode se prvenstveno na mogućnost primjene određene metode za pojedino istraživanje i tražene rezultate, a nakon toga i na troškove pojedine metode. S obzirom na aktualne trendove postizanja sustavne održivosti svih područja znanstvenih istraživanja, a samim time i geofizike, u obzir je potrebno uzeti i druge kriterije, kao što su primjerice okolišni, društveni i ostali kriteriji s obzirom na potrebe i mogućnosti. U skladu s time, prikazati će se primjena višekriterijske metode Promethee. Svrha navedenoga je sagledavanje analizirane problematike u širem kontekstu od uobičajenog, koji se uglavnom svodi na sagledavanje troškova, odnosno na ekonomske kriterije.*

### **Cljučne riječi:**

*Geofizička istraživanja, sustavna održivost, višekriterijske metode, Promethee*

## APPLICATION OF MULTI-CRITERIA METHODS IN GEOPHYSICAL INVESTIGATIONS

### **Summary:**

*The usual procedures of comparison, ranking and selection of an optimal method for conducting geophysical investigations are primarily reduced to the possibility of applying a particular method for certain research and the required results, and subsequently to the cost of various methods. Given the current trends to achieve systemic sustainability of all areas of scientific research, and thus geophysics, other criteria should be taken into account, such as environmental, social and other criteria in view of needs and possibilities. Accordingly, the application of multi-criteria method Promethee will be shown. The purpose of the above mentioned is an overview of the problems analyzed in a broader context than usual, which is mostly limited to consideration of costs, i.e. economic criteria.*

### **Key words:**

*geophysical investigations, systematic sustainability, multi-criteria methods, Promethee*

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