

Geo-analysis model interoperability in the AI era: Challenges, solutions and future directions

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Abstract: Models are important tools for human-being to understand the world. A considerable number of geo-analysis models are developed to simulate earth surface processes and phenomena. With the advancing of technology and tools, especially information technology, the interoperability of geo-analysis models is increasing that can be applied in massive domains. However, with the rapid developing of artificial intelligent, the mode of model developing and application is changing. The traditional sharing and reusing methods are not suitable for these new models. This article aims to review the interoperability of geo-analysis models in past 20 years for model sharing and reuse and summary the challenges in AI era.