IAMG Sessions at IGC2020

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Symposium 35.1: The IAMG has a number of sessions in Symposium 35.1 Mathematical Geosciences and Mineral Resource Evaluation--which is one of three planned symposia under the Theme 35 Advances in Mathematical Geosciences, Mineral Resource Evaluation and Mine-Planning.

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The IAMG Sessions under the Symposium 35.1 Mathematical Geosciences and Mineral Resource Evaluation include:

1) Advances in stochastic modeling of aquifers, reservoir rocks and sedimentary basins (Chair: Roussos Dimitrakopoulos)
2) Statistical analysis of compositional data - Part 1 (Chair: Vera Pawlosky-Glahn; Co-Chair: J.A. Martín-Fernández)
3) Statistical analysis of compositional data - Part 2 (Chair: Eric Grunsky; Co-Chairs: Ute Mueller and Raimon Tolosana-Delgado)
4) Advances in geostatistics and their applications in engineering geology for mining and excavations Analysis of multivariate spatial data in related fields (eg. mineral / coal, environmental geosciences, geochemical
exploration, agriculture, forestry, image processing) (Chair: Katsuaki Koike, Co-Chair: EJM Carranza, Co-Chair: Mohamad Nur Heriawan)
5) Fractals in geosciences and Nonlinear modeling in geosciences. (Chair: Frits Agterberg, Co-Chair: Qiuming Cheng, and Co-Chair: B. S. Daya Sagar)
6) Mathematical morphology in geosciences and spatial data sciences (Chair: B. S. Daya Sagar)
7) GeoMap (Chair: Karel Hron, Co-Chair: Jennifer McKinley)
8) Advances in geological interpretation and geological modelling techniques. (Chair: Gang Liu, China University of Geosciences)
9) Advances in geological resource and reserve estimation and modelling techniques - practices and case studies (Chair: Jack Schunemeyer; Co-Chair: Gordon Kaufman)
10) Recent developments in parametric and non-parametric estimation and simulation. (Chair: BC Sarkar).
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Joint Symposium: Advances in Global Geological Data Sharing and Processing. It's under theme 45, Topic number is 45.10.

Abstract: Global and regional geoscience data sharing and processing technologies have become critically important for meeting the welfare of society into the future. Efficient

new techniques, standards, and algorithms for managing, delivering, visualizing, and analyzing geoscience data both globally and regionally, including ‘big’ data, will be presented and discussed at the symposium.

Main topics:

1. Application of CGI-IUGS/OGC standards in global and regional data sharing and analysis.
2. Advances in, and application of, the OneGeology initiative.
3. New research and achievements in mathematical geoscience.
4. Geoscience information sharing and processing technologies in the Asian region (CCOP).
5. Advances in efficient management, delivery, processing, and visualization of geoscience-related big data.
6. AI and other new technology application in geoscience data processing