

Title: **AI and Geospatial analytics: The digital infrastructure of the future**

Abstract:

Organizations are pairing location intelligence with AI to automate tasks, make accurate business predictions, and gain insights from large amounts of data.

Imagine completing a project from start to finish without needing to click a user interface, open a tool, load a spreadsheet, or adjust symbols and colors. Rather than manually creating a map, users would simply communicate their requirements in natural language inside the software. A few prompts later, the user would have a map with their desired appearance and specifications.

Recent advancements in language models have opened exciting new possibilities for building generative AI capabilities into the user experience. Combining AI with geographic information system (GIS) technology delivers real-world context to operations.

Geospatial artificial intelligence, or GeoAI, accelerates GIS outcomes by leveraging AI subfields like pattern recognition, computer vision, and machine and deep learning methods. GIS professionals use it to automate feature extraction and similar repetitive tasks and to perform advanced analyses.

In this session we will discuss traditional GIS methods as well as Generative AI and GeoAI techniques being used together with GIS.

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