


Dear Piotr,

Congratulations on the successful submission of your Paper Abstract abstract to the 2023 AAG Annual Meeting! Your abstract has been accepted for presentation. Session organizers will need your Abstract Code **(23221)** in order to include your presentation in their session, so **please keep this confirmation for your records.**

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- For the best exposure, poster presenters may opt to upload their poster as a PDF before the Annual Meeting. The PDF will be viewed from the gallery and the mobile app.

Your abstract details can be found below:

Abstract Code**:** 23221
**Title:** Uncertainty and Sensitivity Analysis for Geodiversity Assessment Models
**Type:** Paper Abstract
**First Author:** Piotr Jankowski, *San Diego State University*

**Abstract:** Geodiversity denotes variability in abiotic components in a hierarchical ecological system that includes geology, Earth surface relief, soil cover, surface and ground water, and climate. In the absence of a widely accepted direct measurement method, various geodiversity assessment approaches have been proposed including Spatial Multiple Criteria Analysis (S-MCA) combining expert judgement with data analytics. This approach yields for each mapping unit a synthetic geodiversity assessment value. The robustness of assessment, however, needs to be examined in light of uncertainties due to expert judgement and data error. In this paper, I present the results of examining the robustness of S-MCA based geodiversity assessment carried out for three national parks in Poland. The analysis relies on an integrated approach of input uncertainty and model sensitivity applicable to maps and spatial data. Typically, this approach focuses on the uncertainty of expert judgement represented by criterion weights. The research presented in the paper extends the approach by analyzing the uncertainty and model sensitivity due to both weights and criterion values.

**Acknowledgements:** I understand that all abstracts will be published in the conference proceedings and online. Submission of an abstract implies permission to publish.

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We look forward to seeing you at 2023 AAG Annual Meeting!

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