

An Applied Mathematics Perspective on Modern Geoscience

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Modern geoscience increasingly relies on data, computation, and complex models to understand natural processes and make predictions. Applied mathematics plays a central role in clarifying how structure, uncertainty, and multiscale interactions shape what can be learned, and highlights the value of sustained collaboration between the mathematical and geoscience communities.

Keywords: Applied mathematics, Modeling complex systems, Uncertainty quantification, Machine learning, Data assimilation, Communication between communities