

数学与系统科学研究院
计算数学所网络学术报告

报告人: **Prof. Yanfei Wang**

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报告题目:

**Model-driven and data-driven
inverse problems**

邀请人: 张文生 研究员

报告时间: 2020 年 11 月 13 日 (周五)

晚上 19:00-20:00

报告工具: 腾讯会议 (ID: 795 543 009)

会议链接:

<https://meeting.tencent.com/s/IqkMy6RvKPUx>

Abstract:

In the early stage of geophysical inversion, single physical property is the main feature. Due to the limitation of a single geophysical method, the inversion results are not enough in accuracy and resolution to meet the needs of actual exploration and development. In recent years, we have comprehensively used various geophysical methods to study the same geological body from different perspectives. On the basis of single geophysical field inversion, we take the correlation between multiple physical parameters as a prior information, introduce the spatial structure coupling algorithm, and study the appropriate optimization inversion algorithm to improve the accuracy of inversion interpretation. In addition, we can further introduce big data and artificial intelligence analysis to achieve the further improvement of the accuracy of geophysical inverse problem solution, so as to achieve the goal of fully approaching the reality.

个人简介:

中国科学院地质与地球物理研究所，研究员。任中国科学院油气资源研究重点实验室主任，地球科学大数据与人工智能中心主任，大数据分析方法与智能计算学科组组长。从事反问题基本理论及方法、反问题的数学优化算法、地学大数据与人工智能分析、计算及勘探地球物理研究工作。国家杰出青年科学基金获得者、国家重点研发计划项目首席科学家、获中国青年科技奖、入选国家百千万人才工程国家级人选、授予有突出贡献中青年专家。

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