徐州 · 可持续发展系列国际讲座

Xuzhou·International Lecture Series on Sustainable Development

空间信息与建模： 解决城市扩张和土地竞争问题

Spatial Information and Modeling: Addressing Urban Sprawl and Competition for Land

演讲者: 马丁 · 贝尼施 教授 Prof. Dr.-Ing. Martin Behnisch

多源数据与模型支持下的资源型地区生态修复规划研究与实践

Research and Practice of Ecological Restoration Planning in Resource-based Regions Supported by Multi-source Data and Models

演讲者: 李成 博士 副教授 Ass. Prof. Dr. Cheng Li

可持续发展国际系列讲座探讨当下城乡发展面临的全球性挑战。知名专家将分析当代发展趋势，并提出应对国内外城乡发展面临的挑战的解决方案。本系列讲座对全校开放，汇集了来自不同学科的国际和国内知名专家，并以跨学科的方式展开。来自顶尖大学的特邀演讲人就紧迫的全球问题发表他们的观点，并与来自中国矿业大学不同学院的专家和听众进行讨论。

The lecture series brings together international and Chinese experts from different disciplines, and facilitates debates in an inter-disciplinary way. Invited speakers from leading universities present their views on pressing global issues and discuss them with experts from different faculties of CUMT and the general audience. The lectures are open to university-wide attendance across schools.

本次报告重点阐述了空间数据科学在分析大型数字空间数据集中的关键作用，尤其是针对城市扩张与土地竞争问题。随着空间数据和地理空间人工智能技术的快速发展，空间信息与建模在理解复杂环境挑战方面愈加重要。本报告探讨了这些技术进步如何为分析空间特征、模式与趋势提供重要见解，同时具备高分辨率、良好的可扩展性和丰富的主题多样性。我们将围绕以下核心问题展开讨论：1. 建筑对德国景观的影响有哪些？2. 全球范围内的城市扩张在不同空间尺度上的范围和动态如何？3. 我们如何通过建模、分析与模拟来研究土地竞争与可持续转型？

This presentation emphasizes the critical role of spatial data science in analyzing large digital spatial datasets, focusing on urban sprawl and land competition. As spatial data and advancements in geospatial artificial intelligence grow, spatial information and modeling become essential for understanding complex environmental challenges. This contribution explores how these developments provide valuable insights into spatial features, patterns, and trends, offering high resolution, scalability, and thematic diversity. We will address the following guiding questions: 1. How do buildings impact the German landscape? 2. What is the extent and dynamics of global urban sprawl across various spatial scales? 3. How can we model, analyze, and simulate land competition and sustainable transformations?

马丁 · 贝尼施 教授 / Prof. Martin Behnisch

马丁 · 贝尼施 教授是莱布尼茨生态城市与区域发展研究所（IOER）“空间信息与建模 ”研究领域的负责人。德累斯顿工业大学（TUD）教授。毕业于卡尔斯鲁厄理工学院，获博士学位，曾在苏黎世联邦理工大学从事博士后研究，也曾在加拿大蒙特利尔康考迪亚大学、韩国延世大学和中国天津大学担任访问学者。主要从事空间数据科学、建筑环境和土地系统科学等方面的研究。主持了德国科学基金会基金项目及其他项目多项。

Professor Martin Behnisch is head of the 'Spatial Information and Modelling' research area at the Leibniz Institute of Ecological Urban and Regional Development (IOER). Additionally, he holds a professorship in the same field at Dresden University of Technology (TUD). He received his PhD from the Karlsruhe Institute of Technology, undertook a postdoc at ETH Zurich and has been a visiting scientist at Concordia University Montréal (Canada), Yonsei University (Korea) and Tianjin University (China). His key competencies are related to spatial data science, built environment and land system science, He has received and worked on DFG research grants.

李成 博士 副教授 / Ass. Prof. Dr. Cheng Li

李成 博士 副教授 硕士研究生导师，2014年毕业于德国多特蒙德工业大学空间规划专业，获工学博士学位。现任中国矿业大学建筑与城市规划研究所副所长。主要研究领域：区域发展与规划、区域景观过程、城镇化与生态环境效应、空间数据管理与建模。主持国家自然科学基金、教育部人文社科基金、江苏省社科基金等省部级以课题4项。

Ass. Prof. Dr. Cheng Li is an associate professor at China University of Mining and Technology. He got PhD degree from Spatial Planning Faculty at Technical University of Dortmund in Germany in 2014. He currently serves as the deputy director of the Institute of Architecture and Urban Planning. His main research direction include regional development and planning, regional landscape processes, urbanization and ecological environmental effects, and spatial data management and modeling. He has led projects supported by the National Natural Science Foundation of China, Ministry of Education of China, China Postdoctoral Science Foundation, etc.

中国矿业大学

CHINA UNIVERSITY OF MINING AND TECHNOLOGY

建筑与设计学院

School of Architecture & Design

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建筑与设计学院
二层报告厅

Report I:
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Report II:
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Ass. Prof. Dr. Cheng Li

Moderator:
Prof. Dr. Dr. h.c. Bernhard Müller and Prof. Pingjia Luo, CUMT

Organizers:
Department of Town and Country Planning, Faculty of Architecture and Design

Co-organiser:
Xuzhou Urban and Rural Planning Association

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报告会主持人：
Prof. Dr. Dr. h.c. Bernhard Müller， 罗萍嘉教授

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