CIRCLE
Distinguished Lecture Series

Dr. Jennifer Schooling

Flourishing Systems:

Transforming the future of our built environment through smarter information

ABSTRACT: Thanks to the digital revolution, we live in a world with an increasing abundance of data about everything in our lives. In terms of the built environment, we are now able to digitally capture data about our buildings and infrastructure assets in a way which was not possible even 20 years ago. But the question remains, how to harness that data to best effect? Our built environment is composed of a complex system of infrastructure systems and buildings which underpin the services which we, their users, value. They are interconnected and inter-reliant. How can we use better data about these systems to help us provide and receive better services, which help our communities to flourish? How can we use that data to help us address the climate crisis and reinstate the balance between the built and natural environments? In this lecture, Dr Schooling will explore the answers to these questions, and describe how the Cambridge Centre for Smart Infrastructure has been working with colleagues from academia, industry and policy to enable the adoption and implementation of research outcomes into practice.

BIO: Dr. Jennifer Schooling OBE is Director of the Centre for Smart Infrastructure and Construction (CSIC) at the University of Cambridge. Jennifer is passionate about changing the way the infrastructure and construction industries view data, to become a vital asset in its own right, and as an engineering tool for tackling the key challenges facing our industry, including climate change, resource constraint and resilience. She is a member of the UK's Digital Framework Task Group (DFTG) and the Infrastructure Client Group's Digital Transformation Task group (DTTG). In 2019 she was awarded the Institution of Civil Engineers President's Medal for her work.

CIRCLE: The Center for Infrastructure Resilience in Cities as Livable Environments is one of three research themes supported by the joint Dynamic Research Enterprise for Multidisciplinary Engineering Sciences (DREMES), established between the University of Illinois at Urbana-Champaign (UIUC) and Zhejiang University (ZJU). The CIRCLE Distinguished Lecture Series is intended to provide opportunities for faculty and students to meet and interact with internationally renowned experts in the field.

To register send an email to circle@intl.zju.edu.cn or scan the QR code. Registration is free.

26 JUL 2021 on zoom | at 8AM CDT - 9PM Beijing Time

GET YOUR SEAT
SCAN TO REGISTER!
circle.cee.illinois.edu

Center for Infrastructure Resilience in Cities as Livable Environments
CIRCLE

UNIVERSITY OF **ILLINOIS** URBANA-CHAMPAIGN

DREMES | The Dynamic Research Enterprise for Multidisciplinary Engineering Sciences
ZJU-UIUC Joint Research Center

浙江大学 ZHEJIANG UNIVERSITY

CIRCLE — Center for Infrastructure Resilience in Cities as Livable Environments

Dr. Jennifer Schooling

CIRCLE
杰 出 讲 座 系 列

繁衍系统：

建筑环境的智能化未来

摘要： 由于数字革命，我们生活在一个数据越来越丰富的世界。在建筑环境方面，我们现在能够以数字方式获取关于建筑物和基础设施资产的数据，这在20年前是无法想象的。但问题仍然存在，如何利用这些数据发挥最佳效果？我们的建筑环境是由复杂的基础设施系统和建筑系统组成，它们支撑着我们以及其用户所重视的服务，并且是相互关联和相互依赖的。我们该如何使用这些系统和数据来帮助我们提供或接收更好的服务，从而帮助我们的社区更好的发展？该如何使用这些数据来帮助我们应对气候危机并恢复建筑与自然环境之间的平衡？在本次讲座中，SCHOOLING 博士将解答这些问题的答案，并讲述剑桥大学智能基础设施中心是如何与学术界、工业界和政策界的同行合作，将研究成果付诸实践。

简介： JENNIFER SCHOOLING 博士是剑桥大学智能基础设施和建设中心（CSIC）的主任。JENNIFER 热衷于改变基础设施和建筑行业查看数据的方式，使其本身成为一项重要资产，并作为解决我们行业面临的主要挑战的工程工具，包括气候变化、资源限制和弹性。她是英国数字框架任务组（DFTG）和基础设施客户组数字转型任务组（DTTG）的成员。2019 年，她因杰出的工作表现而被授予土木工程师学会会长奖章。

CIRCLE： 宜居城市基础设施韧性中心是伊利诺伊大学厄巴纳–香槟分校（UIUC）格兰杰工程学院和浙江大学（ZJU）建立的三个联合研究中心之一。CIRCLE 杰出讲座系列旨在为教师和学生提供与该领域国际知名专家会面和互动的机会。

发送邮件至CIRCLE@INTL.ZJU.EDU.CN或扫描二维码报名，免费注册。

2021年7月26日 | zoom | 北京时间：晚上9点

扫描二维码立刻报名
circle.cee.illinois.edu