DISTINGUISHED LECTURE SERIES

Digital Twins and Urban Informatics

📅 **11 SEPT 2024 (WED)**

🕐 **2:30 - 3:30 PM**

📍 **GH201, POLYU**

🌐 **ENGLISH**

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ABSTRACT

Urban informatics appears to be a suitable area for the application of digital twins. Definitions of the term share some characteristics, but these definitions do not agree on what exactly constitutes a digital twin. The term has the potential to be misleading unless adequate attention is paid to the inherent uncertainty in any replica of a real system. The question of uncertainty is addressed, together with some of the issues that make its quantification problematic. Digital twins for urban informatics pose questions of purpose, governance, and ethics. In the final section the paper suggests some research issues that will need to be addressed if digital twins are to be successful.

BIOGRAPHY

Michael F. Goodchild is Professor Emeritus of Geography at the University of California, Santa Barbara. He received his BA degree from Cambridge University in Physics in 1965 and his PhD in Geography from McMaster University in 1969. His research and teaching interests focus on geographic information science, including uncertainty in geographic information, discrete global grids, and volunteered geographic information. He was elected member of the US National Academy of Sciences in 2002, and Foreign Member of the Royal Society and Corresponding Fellow of the British Academy in 2010. He has published over 600 books and articles.

Moderator: Prof. Wu CHEN, Head of LSGI

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