

Advances in Complex Systems: Addressing the zero-emission goal for urban well-being

LAKE COMO SCHOOL
OF ADVANCED STUDIES,
JULY 1–5, 2024

This is the fourth school of a series tackling general properties of complex systems from an interdisciplinary perspective. In this edition the school, we will explore the topic of urban complexity by combining different interdisciplinary approaches to solve current challenges in the organization of our cities. Lectures will tackle the issue of the decarbonization of cities with the aim of reaching Zero Emission goal (target belonging to the EU Mission “100 Climate-Neutral Cities@2030”), addressing the different dimensions composing it. Several topics will be discussed under the overall concept of sustainability, including air pollution, carbon footprint, traffic and mobility, energy systems, ecosystem services, quality of life and environmental health. All these aspects will be interpreted through an integrative complex-systems based perspective. Lecturers will come from different backgrounds including statistics, computer science, urban studies, physics, mathematics, economics and biomedicine. The school is open to Ph. D. students and postdoctoral fellows working in broad range of fields. The school is organized in lectures in the mornings and practical laboratory activities in the afternoons.

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