

BUILDING RESEARCH & INFORMATION

Special issue:

Research on building stocks

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Guest Editors: Niklaus Kohler, Uta Hassler and Philip Steadman

There is increasing recognition across many disciplines that we need to understand and manage the built environment as a saturated steady-state system, particularly as most buildings in developed countries will remain far into the future, influencing patterns of consumption. In some places, whether due to demographics or economics, there is a need to manage the decline (or shrinkage) of the built environment. However, until recently the data on existing building stocks was limited, there were substantial gaps in methods and the linkage to policy was poor. Evidence-based knowledge and appropriate methods are needed to reliably manage the building stock. A stock-centred view emphasizes input and output flows, their side effects, and wider issues surrounding the longevity and value of building stocks.

This special issue brings together new research and emerging insights into the characteristics and dynamics of national building stocks at different levels, as well as new methods of remote sensing, spatial investigation, classification, and social and cultural analysis. Drawing upon an international array of cross- and trans-disciplinary research, the special issue makes these themes visible, and encourages cross-fertilization between different approaches. The papers, listed below, are arranged into major themes:

- Built form and morphological aspects
- Composition and dynamics of the building stock
- Metabolism of the building stock: time and longevity
- Value, social and cultural issues

Editorial: Research on the building stock and its applications

Niklaus Kohler, Uta Hassler and Philip Steadman

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Wall area, volume and plan depth in the building stock

Philip Steadman, Stephen Evans and Michael Batty

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Analyzing building stock using topographic maps and GIS

Gotthard Meinel, Robert Hecht and Hendrik Herold

Urban stock over time: spatial material stock analysis using 4d-GIS

Hiroki Tanikawa and Seiji Hashimoto

Perspectives in the reality-based generation, nD modelling and operation of buildings and building stocks

Armin Grün, Martin Behnisch and Niklaus Kohler

Urban data mining: spatio-temporal exploration of multidimensional data

Martin Behnisch and Alfred Ultsch

Comparing European residential building stocks: performance, renovation and policy opportunities

Frits Meijer, Laure Itard and Minna Sunikka-Blank

Long-term building stock survival and intergenerational management: the role of institutional regimes

Uta Hassler

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Exploring built environment stock metabolism and sustainability by systems analysis approaches

Helge Brattebø, Håvard Bergsdal, Nina Holck Sandberg, Johanne Hammervold and Daniel B. Müller

Space heating demand and heat wave vulnerability: London domestic stock

Anna Mavrogianni, Michael Davies, Zaid Chalabi, Paul Wilkinson, Maria Kolokotroni and James Milner

Energy loads, CO₂ emissions and building stocks: morphologies, typologies, energy systems and behaviour

Serge Salat

Towards a very low energy building stock: modeling the US commercial building sector to support policy and innovation planning

Brian Coffey, Sam Borgeson, Stephen Selkowitz, Josh Apte, Paul Mathew and Philip Haves

Household energy consumption: a study of the role of occupants

Koen Steemers and Geun Young Yun

Social stakes of urban renewal: recent French housing policy

Pierre Gilbert

Replacement or renovation of dwellings: the relevance of a more sustainable approach

André Thomsen and Kees van der Flier

Housing stock shrinkage: vacancy and demolition trends in Germany

Clemens Deilmann, Karl-Heinz Effenberger and Juliane Banse

Health issues and the building stock

Evert Hasselaar

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