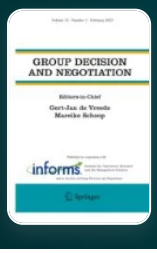
Experimental Use of Strategic Choice Approach (SCA) by Individuals as an Architectural Design Tool

Published: 10 March 2018

Volume 27, pages 811–826, (2018) Cite this article



Group Decision and Negotiation

Aims and scope →

Submit manuscript →

Elena Todella orcid.org/0000-0001-9107-7000[1], Isabella Maria Lami orcid.org/0000-0002-6468-3184[2] & Alessandro Armando orcid.org/0000-0003-0399-9764[1]

Abstract

The paper proposes the use of the Strategic Choice Approach as a way of structuring the architectural design process, done by individuals and partly supported by meetings and interviews with DMs, experts, and stakeholders. The aim is to stimulate a debate around the use of SCA and its possible merging with architectural design, also analysing how the micro-processes involved in this merging can work in practice. We reflect on the possible use of SCA to determine prescriptive conditions on physical form at a scale that is still intermediate between the single building and the urban tissue: the method is employed as a design tool to provide alternative transformation scenarios. It represents a way of approaching the challenge of planning in an uncertain world, eliciting guidelines

and strategies, and furthermore it produces an architectural project or transformation in a physical sense. Moreover, by investigating what occurs during the different micro-processes with the interviewees, we focus on some behavioural issues and effects, in relation to the context, the models of the application and the different entities involved in the interventions. This proposal shows an application to a real-world problem, currently under debate by the City of Turin (Italy), the re-use of abandoned barracks located in a prestigious residential area.

References

Ackerman F, Eden C (2005) Using causal mapping with group support systems to elicit an understanding of failure in complex projects: some implications for organizational research. Group Decis Negot 14:355–376

Article Google Scholar

Ackermann F, Eden C (2011) Strategic management of stakeholders: theory and practice. Long Range Plan 44:179–196

Article Google Scholar

Albrechts L, Balducci A (2013) Practicing strategic planning: in search of critical features to explain the strategic character of plan. Plan Rev 49(3):16–27

Google Scholar

Armando A, Durbiano G (2017) Teoria del progetto architettonico. Dai disegni agli effetti, Carocci, Roma

Google Scholar

Armando A, Bonino M, Frassoldati F (2015) Watersheds. A narrative of urban recycle. Sandu Publishing Co, Guangzhou

Google Scholar

Coelho D, Antunes CH, Martins AG (2010) Using SSM for structuring decision support in urban energy planning. Technol Econ Dev Econ 16:641–653

Article Google Scholar

Eden C, Jones S, Sims D, Smithin T (1981) The intersubjectivity of issues and

issues of intersubjectivity. J Manag Stud 18(1):37–47

Article Google Scholar

Faludi A (2000) The performance of spatial planning. Plan Pract Res 15(4):299–318

Article Google Scholar

Faludi A, van der Valk A (1994) Rule and order: Dutch planning doctrine in the twentieth century. Geo J Libr 28:105

Google Scholar

Ferraris M (2009) Documentalità. Perché è necessario lasciar tracce, Laterza, Roma-Bari

Google Scholar

Franco LA (2006) Forms of conversation and problem structuring methods: a conceptual development. J Oper Res Soc 57:813–821

Article Google Scholar

Franco LA, Montibeller G (2010) Facilitated modelling in operational research. Eur J Oper Res 205:489–500

Article Google Scholar

Fregonara E, Curto R, Grosso M, Mellano P, Rolando D, Tulliani JM (2013) Environmental technology, materials science, architectural design, and real estate market evaluation: a multidisciplinary approach for energy-efficient buildings. J Urb Technol 20:57–80

Article Google Scholar

Friend JK (1993) Planning in the presence of uncertainty: principles and practice. J Jpn Soc Civ Eng 476:1–9

Google Scholar

Friend J, Hickling A (1987) Planning under pressure: the strategic choice approach, 1st edn. Pergamon, Oxford

Google Scholar

Friend J, Hickling A (2005) Planning under pressure: the strategic choice approach, 3rd edn. Pergamon, Oxford

Google Scholar

Giangrande A, Mortola E (2005) Neighbourhood renewal in Rome. Combining strategic choice with other design methods. In: Friend J, Hickling A (eds) Planning under pressure: the strategic choice approach, 3rd edn. Pergamon, Oxford, pp 322–326

Google Scholar

Hämäläinen RP, Luoma J, Saarinen E (2013) On the importance of behavioural operational research: the case of understanding and communicating about dynamic systems. Eur J Oper Res 228(3):623–634

Article Google Scholar

Latour B (1988) Science in action. How to follow scientists and engineers through society. Harvard University Press, Cambridge

Google Scholar

Latour B (2013) Cogitamus. Sei lettere sull'umanesimo scientifico, Il Mulino, Bologna

Google Scholar

Latour B, Woolgar S (1979) Laboratory life: the construction of scientific facts. Sage Publications, Beverly Hills, CA

Mastop H, Faludi A (1997) Evaluation of strategic plans: the performance principle. Environ Plan 24:815–832

Article Google Scholar

Mingers J (2003) A classification of the philosophical assumptions of management science methods. J Oper Res Soc 54(6):559–570

Article Google Scholar

Mingers J (2011) Soft OR comes of age—but not everywhere!. Omega. Int J Manag Sci 39:729–741

Google Scholar

Mingers J, Rosenhead J (2001) Diverse unity: Looking inward and outward. In: Rosenhead J, Mingers J (eds) Rational analysis for a problematic world revisited: problem structuring methods for complexity, uncertainty and conflict. Wiley, Chichester

Google Scholar

Mingers J, Rosenhead J (2004) Problem structuring methods in action. Eur J Oper Res 152:530–554

Article Google Scholar

O'Keefe R (2016) Experimental behavioural research in operational research: what we know and what we might come to know. Eur J Oper Res 249:899–907

Article Google Scholar

Rittel HWJ, Webber MM (1973) Dilemmas in a general theory of planning. Policy Sci 4:155–169

Article Google Scholar

Tavella E, Lami IM (2018) Negotiating perspectives and values through soft OR in the context of urban renewal. J Oper Res Soc. https://doi.org/10.1080/01605682.2018.1427433

Article Google Scholar

White L (2006a) Evaluating problem structuring methods: developing an approach to show the value and effectiveness of PSMs. J Oper Res Soc 57:842–855

Article Google Scholar

White L (2006b) Aesthetics in OR/systems practice: towards a concept of critical imagination as a challenge to systems thinking. Syst Res Behav Sci 23(6):779–791

Article Google Scholar

White L (2016) Behavioural operational research: towards a framework for understanding behaviour in OR interventions. Eur J Oper Res 249:827–841

Article Google Scholar

Yaneva A (2009) Laboratory life: the construction of scientific facts. 010 Publishers, Rotterdam

Yaneva A (2012) Mapping controversies in architecture. Ashgate, Farnham

Google Scholar

Author information

Authors and Affiliations

Architecture and Design Department, Politecnico di Torino, Viale Mattioli 39, 10125, Turin, Italy

Elena Todella & Alessandro Armando

Interuniversity Department of Regional and Urban Studies and Planning, Politecnico di Torino, Viale Mattioli 39, 10125, Turin, Italy

Isabella Maria Lami

Corresponding author

Correspondence to Elena Todella.

Rights and permissions

About this article

Cite this article

Todella, E., Lami, I.M. & Armando, A. Experimental Use of Strategic Choice Approach (SCA) by Individuals as an Architectural Design Tool. *Group Decis Negot* **27**, 811–826 (2018). https://doi.org/10.1007/s10726-018-9567-9

Published
10 March 2018

Issue Date
October 2018

DOI
https://doi.org/10.1007/s10726-018-9567-9

Keywords

Strategic Choice Approach | Architectural design | Decision processes

Search

Search by keyword or author

Navigation

Find a journal

Publish with us

Track your research