



Vittorio Tramontin

34 – 26/04/1979

Civil Engineering

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Italy

My research focuses on green building design and retrofit, sustainable construction technology, energy efficiency in buildings, passive design strategies. I completed my PhD in Building/Architectural Engineering in Cagliari (Italy). I was two-year Research Fellow at the Department of Architecture of the University of Cagliari, in which I was Lecturer in Construction Technology 2 in 2011. In South Africa I am a Green Star SA Accredited Professional. My research approach considers the sustainability of the built environment as a synergistic interaction of environmental, economic and social aspects.

CURRENT RESEARCH

Topic

Green buildings and green infrastructure in developing countries

Sustainable design and retrofit strategies for low-income settlements in SA

Passive building design

Methodology

- Case study methodology
- Experimental methods: dynamic building energy modelling, monitoring of building energetic performance and comfort parameters
- Participatory methods (surveys, interviews)
- Desktop research

Application

Building and construction industry

Policy and regulation on green buildings and green infrastructure

Architecture and Engineering firms

UKZN main Publications

- Tramontin V., Naicker T., Loggia C., Trois C. (2013). "Implementation of green measures for South African affordable housing. A methodological framework related to international best practices", in the proceedings of the International conference "ASOCSA 7th Built Environment conference" [ISBN 978-0-620-55984-3], ASOCSA, Lambton (SA), pp. 1-12.
- Tramontin V., Loggia C., Trois C. (2012). "Strategies for sustainable building design and retrofit in developing countries. New goals for green buildings in South Africa", in the Journal "JOC – Journal of Construction" [ISSN 1994 – 7402], volume 5, number 1, ASOCSA (Association of School of Construction of Southern Africa), Cape Town (SA), pp. 12-17.
- Argiolas M., Loggia C., Tramontin V., Trois C. (2012) "A web application to support decision making process based on a bottom-up approach in public buildings' green retrofit", chapter n. 8 in the handbook "Emerging Software for Interactive Interfaces, Database, Computer Graphics and Animation: Pixels and the New Excellence in Communicability, Cloud Computing and Augmented Reality" [ISBN: 978-88-96471-19-7], Blue Herons Editions, Bergamo (IT), pp. 83-93.

Past Researches

1. Two-year individual research project "*Ar.T.E.S. - Architettura e Tipi Edilizi Sostenibili in Sardegna*" (Sustainable Architecture and Building Typologies in Sardinia) awarded by the Region of Sardinia and co-financed by the European Union.
2. Contract Researcher for the research project "*PRASIS - Pianificazione e Realizzazione di Architetture Sostenibili in Sardegna*" (Planning and Construction of Sustainable Architecture in Sardinia), Department of Architecture of Cagliari (Italy), P.O.R. Sardinia 2000/2006, co-financed by the European Union.

Future Interests

1. Academic career
2. Consultancy

Extra Interests

Tennis, football, cinema, travelling