


Event:
Date:
Place:

ENERGY in BUILDINGS 2018
Saturday November 3, 2018
Athens, Hellas



#	<p>Stylios Karatzas Credentials (Diploma in Electrical Engineering, MSc in Operations Management, PhD Cand.)</p>	
Title:	PhD (c), Civil Engineering Department, University of Patras, Greece	
email:	ksteliosk@hotmail.com	•
Presentation title:	<p>Combining Business Processes with Energy Management: A Process Driven Building Energy Management Framework for Tertiary Buildings</p>	
<p>To truly understand how a building uses and consumes energy we need to go beyond its structural characteristics and theoretical models and incorporate the dynamic parameters in a unified approach. The aim of this paper is to report the design and development of an innovative energy management framework to enable the alignment of fine-grain building energy use data to the organizational operational activities (incorporating state of the art business process modeling and annotation techniques), thus allowing for a systemic and holistic view over the organizational energy performance. By linking core operational aspects (equipment usage) and environmental conditions (temperature, humidity and luminance) to occupants' behaviours underlying business processes and organizational structures, we aim to enhance the comprehensiveness and easy interpretation of building energy performance metrics within an extended enterprise performance evaluation framework. Such an integrated and sophisticated energy management framework, is evaluated over a long period and validated in real-life conditions, in a public building (offices in university) incorporating a wide range of business processes and services (generating wide visibility of results) and under different environmental, device operational and contextual conditions.</p>		

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CV:

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Studies - Degrees

- Ph.D. Research Title: BIM and Business Process Reengineering for Building Energy Management.
- Master of Science (M.Sc.) in Operations Management, Business School, BATH University, UK (2002).
- Diploma in Electrical Engineering and Computer Technology (Specialized in Automation and Control Systems), Department of Electrical Engineering and Computer Technology, University of Patras (1995-2001).

Professional and academic experience

- He is currently working as an Associate European Project Manager (GRASPINO and CROCODILE projects) at Civil Engineering Department, University of Patras.
- He is a teaching assistant in 'Information Technology Systems and Building Information Modeling (BIM) in Construction' and 'Smart Cities, Transportation and Infrastructures' courses, Civil Engineering Department, University of Patras.
- He has worked as Operations and Project Manager in a variety of Energy and Construction Projects in Greece and abroad (Dubai, Palm Island project) with Operational and Managerial responsibilities such as quality management, cost control and scheduling, staff training and management, progress reporting and contract management (2002-2013).
- He has worked as a Business Process Reengineering Consultant (Bedor Excem Consulting), with responsibilities of developing and implementing innovative Management Systems (Lean Project Design) and process re-engineering, company resource optimization and procedures improvement (2014-2015).

Professional Training

- Participation in international course in Business Process Engineering, Lecce University, Italy (2015)
- Project Management Diploma, National & Kapodistrian University of Athens, Greece (2003)

Professional Skills

Design software: Revit Architectural, MEP Revit, Autocad,
Energy Simulation software: Insight 360, Energy Building Studio
Business Process Modeling: Adonis BPM, AG's ARIS Business Process Analysis (BPA) Platform

Scholarships and Honors

IKY PhD Scholarship (3 years scholarship from 04/2018)
IKY Scholarship: Sheffield Hallam University (01-06/1997)

Publications (Selected)

1. Karatzas S. and Chassiakos A. (2019). 'System-Theoretic Process Analysis (STPA) of Demand-Side Load Management in Smartgrids'. STAMP Workshop, Massachusetts Institute of Technology (MIT), Boston, USA (full paper accepted).
2. Chassiakos A., Karatzas S., Farmakis P. (2018). "BIM and Lean-Business Process Reengineering for Energy Management Optimization of Existing Buildings" In: 35th CIB W78 2018, 1-3 October, Conference: IT in Design, Construction, and Management, Chicago, Illinois, United States (full paper accepted).
3. Karatzas S. (2018). "BIM based Holistic Energy Performance Management of Existing Building Stock", In: Smartgreens- 7th International Conference on Smart Cities and Green ICT Systems, Funchal, Madeira - Portugal.
4. Karatzas S. and Chassiakos A. (2017). 'BIM-based building energy assessment: The Greek "Energy Performance of Buildings Regulation (KENAK)" case'. In SmartCities@Maas-2017, Patras, Greece.
5. Karatzas S. and Chassiakos A. (2017). "Building Information Modeling as a Cost Control Tool for Critical Chain Construction Project Management" In: Proc. Lean & Computing in Construction Congress (LC3), Vol. 3 (IGLC), Heraklion, Greece