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Upcoming Events

9th Plenary Meeting of the Adapt4EE Project, October 1-2 - Pamplona, Spain

The ninth plenary meeting of the Adapt4EE project will be held in Pamplona, Spain on October 1-2, 2014 and will be hosted by Universidad de Navarra.

Adapt4EE International Seminar and Workshop on "Building Energy Performance Simulation", October 1st, 2014 – Pamplona, Spain

The Adapt4EE Project organizes an International Seminar and Workshop on "Building Energy Performance Simulation", hosted by Universidad de Navarra, in Pamplona, Spain, on October 1st 2014.

The International Seminar and Workshop will focus on the demonstration and testing of alternative building energy performance software tools and their comparison with the Adapt4EE project solutions and aims at evaluating the advancements brought by Adapt4EE against the needs of different actors -architects, engineers, facility managers- towards accurately evaluating the energy performance of buildings from their early design phase.

Adapt4EE Lays the Corner Stone for Occupant Aware Energy Efficiency in Enterprise Environments and Constructions



An international consortium of renowned academic and industrial organizations has been recently awarded with a new contract with the European Commission for the implementation of the Adapt4EE (Occupant Aware, Intelligent and Adaptive Enterprises) STREP project, which is funded in the context of the 7th Framework Programme's Objective for ICT Solutions and Energy Efficiency.

Energy performance of construction products during operation heavily relies on three interrelated spatio-temporal groups of factors: **construction assets and facilities, environmental conditions and occupant behavior.** Occupancy patterns in the domain of constructions of commercial use appear to be more complicated, involving multiple individuals, gatherings, single or collective movement patterns and different individual behaviors. Furthermore, in these same cases, occupancy patterns display high correlation with business episodes and respective everyday operations. Moreover, enterprises commonly experience changes in occupancy patterns and ad-hoc requirements due to sudden alterations in business processes as well as personal churns.

To this end, it is of great benefit to accurately capture and analyze the information of such trends for applications in enterprise modeling and simulation. Detection of occupant presence has been applied extensively in built environments for applications such as demand-controlled ventilation and security, and occupancy profiles are widely used in building simulations. However, the ability to determine the actual number of occupants in a predefined space, or even more, patterns of occupant movement is beyond the scope of current sensing techniques.

The project aims at augmenting the contemporary architectural envelope by incorporating business and occupancy related information thus providing a holistic approach to the planning, design & evaluation of energy performance of construction products at an early design phase and prior to their realization. Adapt4EE will deliver and validate a holistic energy performance framework that incorporates architectural metadata and environmental parameters (BIM), critical business models (BPM), while treating occupants as the central reference point.

The Adapt4EE framework will align energy consumption points to all interrelated enterprise aspects and will provide a set of Open Business Reference Models as well as respective methods and tools for modeling and simulating the real life operation of construction products, thus allowing for more accurate and realistic evaluation of the energy impact of alternative design and planning decisions.



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The eighth plenary meeting of the Adapt4EE project took place, in Sankt Augustin, Germany on May 22, 2014.

The main objective of the meeting was to evaluate the progress of the pilot implementation plan of the project, while focusing on specific issues related to the pilot sites requirements, additional installations and first simulation results.

Moreover, during the meeting, the partners discussed about the current work progress focusing on major project implementation and management issues, while spending a lot of time on addressing the reviewers' comments from the 2nd Annual Project Review Meeting. Finally the action plan until the next project meeting was agreed among the partners.



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Adapt4EE International Seminar and Workshop on Building Energy Performance Simulation



Universidad de Navarra

The Adapt4EE Project organizes an International Seminar and Workshop on "Building Energy Performance Simulation", hosted by Universidad de Navarra, in Pamplona, Spain, on October 1st, 2014.

The International Seminar and Workshop will focus on the demonstration and testing of alternative building energy

performance software tools and their comparison with the Adapt4EE project solutions and aims at evaluating the advancements brought by Adapt4EE against the needs of different actors - architects, engineers, facility managers - towards accurately evaluating the energy performance of buildings from their early design phase.

Adapt4EE introduces a novel building energy performance simulation environment that allows the building industry actors to assess the performance of buildings based on more accurate occupancy data resulting from the business process that are executed within an enterprise building.



Who

Architects, engineers, facilities managers and other responsible and end-users involved in the use of energy in buildings.

Conditions for Participation

Free for all the participants with previous registration.

When and where

The 1st International Seminar and Workshop will take place on Wednesday 1st October 2014, at the 'Amigos' Building of the Universidad de Navarra, Pamplona, Spain.

Acknowledgments

The International Seminar and Workshop is being organized under the auspices of the EC/FP7 research Project Adapt4EE. To get more information about this International Seminar and Workshop please contact Mrs. María Eguaras (meguaras.1@alumni.unav.es), coordinator of the event for the Adapt4EE project.

Registration

To register to the International Seminar and Workshop, please fill in the respective form in the following link: <http://www.unav.edu/web/escuela-tecnica-superior-de-arquitectura/building-energy-performance>

In the link above, you can, also, find more information about the programme and agenda of the Seminar and Workshop.

5th VoCamp on Device and Sensor Ontologies Sankt Augustin, Germany, May 20-21, 2014

The 5th VoCamp was dedicated to "Device & Sensor Ontologies" and took place on 20th - 21st of May 2014 at Fraunhofer premises in Sankt Augustin, Germany.

The event was organized and chaired by Dr. Markus Eisenhauer, Head of the User-Centred Ubiquitous Computing Department at Fraunhofer FIT.

The event was organized under the auspices of "Adapt4EE" in synergy with the Ready4SmartCities EC funded project.

Fraunhofer FIT is partner of the Adapt4EE project in which context, a series of VoCamps were held

to identify and further improve key vocabularies used in the AEC domain.

Acknowledging the urgent demand on integration and interoperability of sensor and actuation nodes in the general domain of Machine-to-Machine communication, this VoCamp presented, discussed and analysed existing ontologies and services built on top of these semantic models.

Working groups elaborated on detailed topics during the second day of the meeting.

In case you wish to receive more information about the event and the overall VoCamps schedule please contact us at VoCamps-Info@iti.gr.

This Issue's Highlight



Presentation of Adapt4EE Research Results in the ICT 2013 Exhibition (Vilnius, Lithuania, 6-8 November 2013)

The latest advancements of the Adapt4EE project were presented and demonstrated in the ICT 2013 Exhibition and Conference, which was held in Vilnius, Lithuania on November 6-8, 2013. ICT 2013 was the largest ICT event organized in the EU and a meeting point for more than 4000 researchers, innovators, entrepreneurs, industry representatives, young people and politicians.



The Adapt4EE Booth in the ICT 2013 Exhibition and Conference

Visitors of the Adapt4EE exhibition stand were at the heart of the project demonstrations and were given the opportunity to have an interactive experience and witness how real life occupant data are captured and presented within a simulated building environment.



Adapt4EE innovative showcases included real-time visualization of visitors' activity within the architectural design of the exhibition area and interactive simulations offering the visitors the opportunity to perform small changes to architectural designs and understand their impact on various building performance aspects (energy efficiency, business performance, occupants' comfort).

Adapt4EE in the 4th VoCamp on "Integrating Multiple Domains and Scales"

The SEMANCO Project hosted the 4th VoCamp on Thursday 13th and Friday 14th of February 2014, at the Engineering and Architecture School La Salle Campus, Barcelona, Spain.

This VoCamp focused on the application of ontologies to integrate multiple domains and scales in order to develop models of urban energy systems which help different actors -urban planners, consultants, policy makers, dwellers- to take better informed decisions, to reduce energy consumption and carbon emissions in urban environments.

Adapt4EE 9th Project Meeting

The ninth plenary meeting of the Adapt4EE project will take place, in Pamplona, Spain on October 1-2, 2014.

The main objective of the meeting will be to evaluate the progress of the pilot implementation plan of the project, while focusing on specific issues related to the pilot phase evaluation.

Moreover, during the meeting, the partners will discuss about the forthcoming final project review meeting and will collectively assess the progress made towards addressing the reviewers' comments, from the 2nd Annual Project Review Meeting