

**13<sup>th</sup> September**

08:00	<b>Congress Participants Reception</b> Grande Real Foyer
09:00-09:45	<b>Opening Ceremony</b> Grande Real Room
09:45-10:30	<b>Plenary Session:</b> "The Role of Construction Innovation in Delivering Sustainability, Quality of Life and Economic Benefits" <b>Sean Smith</b> (Edinburgh Napier University, Scotland, UK) Grande Real Room
10:30-11:00	Coffee Break – Real Foyer
11:00-13:00	<b>Parallel Sessions</b>
13:00-14:30	Lunch – Real Cozinha Restaurant
14:30-16:30	<b>Parallel Sessions</b>
16:30-17:00	Coffee Break – Real Foyer
17:00-18:40	<b>Parallel Sessions</b>
19:00	<b>Welcome Drink</b> Grande Real Foyer

**14<sup>th</sup> September**

09:00-11:00	<b>Parallel Sessions</b>
11:00-11:30	Coffee Break – Real Foyer
11:30-12:15	<b>Plenary Session:</b> "The Polar Lodge Project – A sustainable modular building for research development in the Antarctic" <b>Manuel Correia Guedes</b> (IST, University of Lisbon, Portugal) Grande Real Room
12:15-13:00	<b>Plenary Session:</b> "Doctoral Education in Architecture with Special Reference to Housing" <b>Gülsün Sağlamer</b> (Istanbul Technical University, Turkey) Grande Real Room
13:00-14:30	Lunch – Real Cozinha Restaurant
14:30-16:30	<b>Parallel Sessions</b>
16:30-17:00	Coffee Break – Real Foyer
17:00-18:40	<b>Parallel Sessions</b>
20:00	<b>Conference Dinner</b> Garden and Santa Eulália Restaurant

**15<sup>th</sup> September**

09:00-11:00	<b>Parallel Sessions</b>
11:00-11:30	Coffee Break – Real Foyer
11:30-12:15	<b>Plenary Session:</b> "Domus Social - Social Housing, Maintenance and Organization" <b>Manuela Álvares</b> (Domus Social, EM, Portugal)
12:15-13h00	<b>Plenary Session:</b> "Diffusion-convective transport of heat and moisture through a porous solid using BEM" <b>Leopold Škerget</b> (University of Maribor, Slovenia) Grande Real Room
12:30-14:00	Lunch – Real Cozinha Restaurant
14:00-16:00	<b>Parallel Sessions</b>
16:00-16:30	Coffee Break – Real Foyer
16:30-19:00	<b>Parallel Sessions</b>

**16<sup>th</sup> September**

09:00-11:00	<b>Parallel Sessions</b>
11:00-11:30	Coffee Break – Real Foyer
11:30-12:15	<b>Plenary Session:</b> "Building the landscape. Rehabilitation and renewal of traditional Mediterranean structures" <b>Carlos Bragança dos Santos</b> (University of Algarve, Portugal) Grande Real Room
12:15-12:45	<b>Closing Ceremony</b> Sunrise Auditorium
13:00-14:00	Farewell Cocktail

11:00-13:00

**OS: Wooden Houses, from the tradition to the new possibilities**

Room: Algarve I

Chair *Jorge Manuel Branco*

	ID	
11h00m-11h20m	403	COMPARISON BETWEEN TWO HISTORICAL TIMBER FRAMED SOLUTIONS REPRESENTING BOTH TRADITION AND PRE-MODERN EARTHQUAKE RESISTANCE CONCEPTS Sandra Tonna, Nicola Ruggieri, Claudio Chesi
11h20m-11h40m	404	EXPERIMENTAL ASSESSMENT OF THE MECHANICAL BEHAVIOUR OF TABIQUE WALLS AND TIMBER FLOORS João Miranda Guedes, Bruno Quelhas, Tiago Ilharco, Andreia Rebelo, José Coelho
11h40m-12h00m	508	INTRODUCTION WATTLE AND CAMORCANNIA LIGURIAN ARCHITECTURES. EXPERIMENTAL DETAILS FOR CONSERVATION Daniela Pittaluga, Gerolamo Stagno, Giulia Garibbo
12h00m-12h20m	162	STRATEGIES TO AVOID HUMIDITY CAUSING DAMAGES IN TALL TIMBER BUILDINGS Catarina Silva, Jorge Branco, Paulo Lourenço
12h20m-12h40m	189	NONLINEAR LAYERED MODELLING APPROACH FOR CROSS LAMINATED TIMBER PANELS SUBJECTED TO OUT-OF-PLANE LOADING Vahid MahdaviFar, Andre R. Barbosa, Arijit Sinha
12h40m-13h00m	285	TIMBER FLOORS: COMPOSITE FLOORS TO OPTIMIZE STRUCTURAL PERFORMANCE AND MATERIAL CONSUMPTION Bertrand Roensmaens, Coralie Avez, Thierry Descamps

11:00-13:00

**OS: Smart Skin Envelope for Housing of the Future**

Room: Algarve II

Chair *Corrado Trombetta and Martino Milardi*

11h00m-11h20m	140	THE EFFECT OF PARAMETRIC DESIGN ON DESIGNING PERFORMATIVE FAÇADES Delara Razzaghmanesh, Meltem Aksoy
11h20m-11h40m	191	THE ECO-DESIGN IN WINDOW INDUSTRY Emilio Antonioli, Massimo Rossetti
11h40m-12h00m	302	MAPPING OF ENVIRONMENTAL INTERACTION AND ADAPTIVE MATERIALS FOR THE AUTOREACTIVE POTENTIAL OF BUILDING SKINS Sandra Giulia Linnea Persiani, Philipp Lionel Molter, Claudio Aresta, Tillmann Klein

11:00-13:00

**Sustainability and Energy Efficiency**

Room: Lisboa

Chair *Isabel Torres*

	ID	
11h00m-11h20m	004	IMPACT OF DIFFERENT CONTROL STRATEGIES OF A COMPLEX FENESTRATION SYSTEM ON VISUAL COMFORT AND ENERGY CONSUMPTION OF AN OFFICE BUILDING IN A SEMIARID CLIMATE Daniel Uribe, Waldo Bustamante, Germán Molina, Sergio Vera
11h20m-11h40m	012	ENVIRONMENTAL LIFE CYCLE ASSESSMENT OF CONCRETE CONTAINING BIOMASS FLY ASH Elisabete R. Teixeira, Ricardo Mateus, Aires Camões, Luís Bragança, Fernando G. Branco
11h40m-12h00m	013	INFLUENCE OF THE OPTICAL PROPERTIES OF FAÇADE COATING ON THE BUILDING ENERGY DEMAND Maria J. Gavira, Gloria Pérez, Ana Guerrero
12h00m-12h20m	473	UNFIRED CLAY MASONRY BRICK AS SUSTAINABLE AND LOW COST BUILDING MATERIAL Usama Mohamed Mohamed
12h20m-12h40m	102	COST-OPTIMAL METHODOLOGY: APPLICATION TO THE THERMAL AND LIGHTING REFURBISHMENT OF A PORTUGUESE REFERENCE BUILDING Ana Brandão de Vasconcelos, António Santos, António Cabaço
12h40m-13h00m	114	CIRCULAR ECONOMY IN THE BUILDING SECTOR THROUGH THE INNOVATION AND THE DEVELOPMENT OF NEW INDUSTRIAL STRATEGIES: THE ROLE OF THE INFORMATION IN THE MANAGEMENT OF BY-PRODUCTS AND WASTE Marco Migliore, Monica Lavagna, Cinzia Talamo

11:00-13:00

**OS: Natural Hazards Mitigation and Seismic Vulnerability of Civil Structures / OS: Urban Risk Reduction and Resilience**

Room: Albufeira I

Chair *Rui Carneiro de Barros*

11h00m-11h20m	415	REFURBISHMENT PLANNING OF BUILDINGS AS A PART OF EARTHQUAKE DAMAGE MITIGATION Jana Šelih, Aleksander Srdić, Matej Kušar
11h20m-11h40m	438	TRAFFIC SEISMICITY EFFECT IN HERITAGE BUILDING - FREQUENCY DOMAIN IDENTIFICATION Veronika Valašková, Daniel Papán, Rui C. Barros
11h40m-12h00m	484	RESPONSE TIME ANALYSIS OF A SPONGE TYPE MR DAMPER

12h00m-12h20m	440	Manuel Braz César, Kellie Oliveira, Rui C. Barros VIBRATION CONTROL OF A TEN FLOOR MDOF BUILDING USING PENDULUM TMD
12h20m-12h40m	441	Rui C. Barros, Catarina M.A. Sousa ASSESSMENT OF SEISMIC SAFETY OF F.E.U.P. NEW CAMPUS LIBRARY BUILDING
12h40m-13h00m	382	Rui C. Barros, Sílvia A. Couto AN IMPROVED MODEL FOR SEISMIC RISK ASSESSMENT IN PORTUGAL
		Raimundo Delgado, Mário Marques, Ricardo Monteiro

**11:00-13:00**

**Applied Social Sciences in Housing**

Room: Albufeira II

Chair *Fátima Farinha*

11h00m-11h20m	072	SUSTAINABILITY WITH PARTICIPATIONS IN DEVELOPMENT OF INFRASTRUCTURE PROJECTS
11h20m-11h40m	073	Maha Mustafa Eltahir THE EVALUATION OF SOCIAL SUSTAINABILITY IN "MAHALLE" (NEIGHBORHOOD) IN TURKEY, BURSA AS A CASE
11h40m-12h00m	090	Şeyda Akçaltı, Arzu Çahantimur MONITORING OF INDOOR ENVIRONMENTAL QUALITY
12h00m-12h20m	115	Ludmila Meciárova, Sílvia Vilčeková, Eva Křidlova Burdová ENERGY BEHAVIOUR CHANGE BY COLOURED IN-HOME DISPLAY
		Jon Stinson, Alasdair Reid, Julio Bros-Williamson, John Currie

**14:30-16:30**

**OS: Timber Structures and Construction/ Sustainable Architecture**

Room: Algarve I

Chair *João Negrão*

14h30m-14h50m	258	DESIGN PARAMETERS FOR SELF-TENSIONED LONG-SPAN WOODEN FLOORS
14h50m-15h10m	274	Dolores Otero-Chans, Javier Estévez-Cimadevila, Juan Pérez-Valcarcel, José Vázquez-Rodríguez, Isaac López-César CLT STRUCTURES FOR LONG SPAN FLOORS AND ROOFS – OPTIMIZING THE CROSS-SECTION PROPERTIES
15h10m-15h30m	346	João Negrão, Luís Jorge AN INNOVATIVE SYSTEM FOR POST-EMERGENCY TIMBER HOUSING

15h30m-15h50m	093	Valentina Sumini, Claudio Chesi, Roberto Zedda THE INNOVATIVE AND ENVIRONMENTALLY FRIENDLY CONSTRUCTION TECHNIQUES - THE HOUSE OF WOOD AND STRAW
		Renato Iovino, Flavia Fascia, Emanuele La Mantia

**14:30-16:30**

**OS: Innovative Architecture: Knowledge, Ideas, Experiments and Realizations**

Room: Algarve II

Chair *Adriana Matei*

14h30m-14h50m	037	THE ENGINEERING OF FREE FORMS ENVELOPES: THE CASE OF THE HADID TOWER TWISTING SHAPE FAÇADE
14h50m-15h10m	047	Enrico Sergio Mazzucchelli, Alice Ancillotti, Angelo Lucchini THE DYNAMICS OF SPATIAL CONCEPTION AND ITS SEMANTIC IN CONTEMPORARY ARCHITECTURE
15h10m-15h30m	166	Adriana Matei A SEMANTIC ANALYSIS OF MOVEMENT WITHIN CONTEMPORARY ARCHITECTURE
15h30m-15h50m	171	Andreea Moțu INNOVATION IN THE PUBLIC SPACES OF HISTORIC CENTRES
15h50m-16h10m	192	Alexandru Tiotiu, Adriana Matei, R. Veiga, C. Vale AN ANALYTICAL STUDY OF OUTDOOR INTERACTIONAL SPACE FOR CREATING SOCIALLY SUSTAINABLE HIGH-RISE RESIDENTIAL ENVIRONMENT: CASE STUDY FROM INDIA
		Soumi Muhuri, Sanghamitra Basu

**14:30-16:30**

**Sustainability and Energy Efficiency**

Room: Lisboa

Chair *Fátima Farinha*

14h30m-14h50m	120	URBAN MORPHOLOGY AND ENERGY EFFICIENCY PRACTICE: THE URBAN PATTERN ANALYSIS AS A FRAMEWORK FOR IMPACT EVALUATION OF BIOMASS PRODUCTION TOWARDS ENERGY EFFICIENT DISTRICTS
14h50m-15h10m	125	Alessandro Pracucci, Theo Zaffagnini STRAW AS A CONTEMPORARY BIOMATERIAL: ENERGETIC EFFICIENCY AND ENVIRONMENTAL SUSTAINABILITY
15h10m-15h30m	141	Tiziana Campisi, Manfredi Saeli TYPOLOGICAL EVOLUTION OF THE SUSTAINABLE HOUSING: OPPORTUNITIES AND LIMITS
		Raffaella Lione, Fabio Minutoli

15h30m-15h50m	150	MEASURING ENERGY AND ENVIRONMENTAL IMPACTS OF MATERIALS BUILT IN MASONRY HOUSES AS A TOOL FOR SUSTAINABILITY IN BUILDING INDUSTRY Adriana Estokova, Milan Porhincak	Chair ID	<b>OS: Assessment, Diagnosis, Energy Efficiency and Building Refurbishment for Sustainability</b> Room: Albufeira II <i>Anabela Paiva e João Carlos Lanzinha</i>			
15h50m-16h10m	155	EFFECT OF DIFFERENT SEDUM TYPES ON GREEN ROOF TEMPERATURE Zuzana Poórová, František Vranay, Zuzana Vranayová	14h30m-14h50m	025	INFLUENCE OF EXTERNAL ENVIRONMENT CHANGES ON EVALUATION OF ENERGY SAVING PROJECTS Dalibor Vytlačil		
16h10m-16h30m	195	USE OF LCA AS A TOOL TO ASSIST IN DECISION ABOUT ELECTRIC ENERGY EFFICIENCY BETWEEN DIFFERENT MORTARS Antônio Claret de Almeida Gama Junior, Helena Carasek, Maria Carolina Gomes de Oliveira Brandstetter	14h50m-15h10m	139	ENERGY RETROFIT OF SARDINIAN LAND REFORM RURAL SETTLEMENTS Giuseppe Desogus, Antonello Sanna, Sergio Arru		
<b>14:30-16:30</b>		<b>OS: Urban Risk Reduction and Resilience</b>			15h10m-15h30m	182	LIFE CYCLE ASSESSMENT FOR SUSTAINABLE CONSTRUCTION: A CASE STUDY IN CANADA Ricardo Leoto, Charles Thibodeau, Gonzalo Lizarralde
Room: Albufeira I <i>Tiago Ferreira and Romeu Vicente</i>		Chair ID			15h30m-15h50m	183	ENERGY SCREENING OF WIDE BUILDING STOCK Vittorino Belpoliti, Giacomo Bizzarri, Marta Calzolari, Elena Cattani, Pietromaria Davoli, Stefania Pitzianti, Andrea Rinaldi
14h30m-14h50m	076	INNOVATIVE FLAT ROOF SOLUTIONS FOR EXISTING BUILDINGS: FROM ENERGY EFFICIENCY TO IMPACTS MITIGATION Paola Lassandro, Teresa Cosola	15h50m-16h10m	247	TOXIC METALS IN INDOOR DUST COLLECTED FROM HOUSES INCLUDED IN THE "6X60X6" PROJECT (COVILHÃ, PORTUGAL) DURING THE COOLING SEASON M. Ramiro Pastorinho, João Carlos Lanzinha, Luís Taborda-Barata, Maria Assunção Vaz-Patto, Marisa Monteiro, Miguel C.S. Nepomuceno, Ana C.A. Sousa		
14h50m-15h10m	097	PROBABILISTIC SEISMIC RISK ASSESSMENT OF ALGERIAN BUILT ENVIRONMENTS IN MODERATE HAZARD REGIONS Allaeddine Athmani, Tiago Miguel Ferreira, Romeu Vicente	16h10m-16h30m	248	ASSESSMENT OF A TIMBER STRUCTURE IN THE "ERMIDA DA ASCENSÃO DE CRISTO" IN LISBON Diana Araújo, Dulce Franco Henriques		
15h10m-15h30m	273	"URBAN PLANNING FOR URBAN RESILIENCE" AS A COMPONENT OF ISTANBUL'S RESILIENT URBAN DEVELOPMENT Zeynep Deniz Yaman Galantini, Azime Tezer	<b>17:00-19:00</b>				
15h30m-15h50m	284	SAFETY ASSESSMENT OF MULTI-STOREY BUILDINGS IN CASE OF FIRE: DEVELOPMENT OF A DECISION TOOL BASED ON SCENARIO ANALYSIS TO IMPROVE RISK MANAGEMENT Anass Rahouti, Selim Datoussaïd, Thierry Descamps	<b>OS: Low Embodied Energy Building Materials for Eco-efficient Housing and Rehabilitation</b> Room: Algarve I <i>Paulina Faria</i>				
15h50m-16h10m	316	FUTURE RESILIENCE OF CULTURAL HERITAGE BUILDINGS - HOW DO RESIDENTS MAKE SENSE OF PUBLIC AUTHORITIES' SUSTAINABILITY MEASURES? Åsne Lund Godbolt, Cecilie Flyen, Åshild Lappegard Hauge, Anne-Cathrine Flyen, Louise Leren Moen	Chair ID	17h00m-17h20m	105	THE GREAT CHALLENGE OF THE DOMESTIC ARCHITECTURE IN A GLOBAL WORLD Adela Salas Ruiz, María del Mar Barbero-Barrera	
16h10m-16h30m	355	MUNICIPAL COLLABORATIVE PLANNING AS A KEY FACTOR FOR CLIMATE RESILIENCE IN THE BUILT ENVIRONMENT Cecilie Flyen, Åshild Lappegard Hauge, Anders-Johan Almås, Åsne Lund Godbolt	17h20m-17h40m	262	ASSESSMENT OF PHOTOCATALYTIC CAPACITY OF A HYDRAULIC MORTAR Pedro Castanho, Vitor Silva, Paulina Faria		
<b>14:30-16:30</b>		17h40m-18h00m			462	AGGREGATES AND BINDERS' INFLUENCE ON THE BEHAVIOUR OF MORTARS WITH IMPROVED THERMAL PERFORMANCE Andreia Borges, Inês Flores-Colen, Jorge de Brito	
		18h00m-18h20m			525	AIR LIME AND NATURAL HYDRAULIC LIME MORTARS WITH CERAMIC RESIDUES FOR REHABILITATION OF OLD BUILDINGS	

18h20m-18h40m	066	Gina Matias, Isabel Torres, Paulina Faria ANALYSIS OF SCIENTIFIC PRODUCTION RELATED TO EARTH CONSTRUCTIONS IN THE LAST 20 YEARS (1996-2015) Levi T. Pinheiro, Bárbara R. Carvalho, Ana Sofia Guimarães, Adeildo C. Silva
<b>17:00-19:00</b>		
<b>OS: Innovative Architecture: Knowledge, Ideas, Experiments and Realizations / Rehabilitation, Retrofitting and Refurbishment / Sustainable Architecture</b>		
Room: Algarve II		
Chair ID	<i>Adriana Matei</i>	
17h00m-17h20m	196	LIMITATIONS, CRITIQUES AND INCONSISTENCIES OF THE SPACE SYNTAX METHODOLOGY Mihai Racu
17h20m-17h40m	241	ENVIRONMENTAL IMPACT EVALUATION OF THE GEOMAGNETIC FIELD IN A RESIDENTIAL BUILDING José Francisco Glaría Yetano, Ana Sánchez Ostiz Gutiérrez
17h40m-18h00m	294	SUSTAINABLE BUILDINGS VERSUS SOLID STRUCTURES: A CONCEPTUAL FRAMEWORK FOR SUSTAINABILITY OF HIGH RISE BUILDINGS IN ISTANBUL Tuba Sari
18h00m-18h20m	303	INVESTIGATING SUSTAINABILITY IN DIFFERENT STREET REHABILITATION SAMPLES IN TURKEY Nurhilal Şimşek
18h20m-18h40m	315	RECOVERING THE SOCIAL AND ENVIRONMENT VALUE OF BUILT HERITAGE. THE CASE STUDY OF "PALAZZO MUSCETTOLA" IN SOUTH ITALY Dora Francese, Emanuela Adamo
<b>17:00-19:00</b>		
<b>Sustainability and Energy Efficiency</b>		
Room: Lisboa		
Chair ID	<i>Fatima Farinha</i>	
17h00m-17h20m	239	MAKING COMPLEX CONTROLS FOR SMART BUILDINGS IN THE ENERGYPLUS: OPTIMIZING THERMAL COMFORT BY PASSIVE SYSTEMS Anderson Priebe Ferrugem, Lorenzo Fagundes Antunes, Antônio César Silveira Baptista da Silva
17h20m-17h40m	240	INDOOR AIR QUALITY, THERMAL COMFORT AND ENERGY EFFICIENCY CONSTRAINTS – CASE STUDY FOR A PUBLIC HEALTH CARE BUILDING Ana C. V. Vieira, João Garcia, Flávio Chaves, Nuno Fonseca, João Caetano
17h40m-18h00m	264	REAL ESTATE STRATEGIES AND OPPORTUNITIES FOR COMPANIES FROM ENERGY EFFICIENCY: A SYSTEMIC APPROACH Stefano Bellintani, Alberto Celani

18h00m-18h20m	267	EXPERIMENTAL STUDY OF UNCONVENTIONAL SOLUTIONS OF THERMAL PROTECTION PERFORMANCE ON FLAT ROOFS Alexandra Costa, Carlos Pina dos Santos
18h20m-18h40m	242	INDOOR AIR QUALITY, THERMAL COMFORT AND ENERGY EFFICIENCY CONSTRAINTS– CASE STUDY FOR AN EDUCATIONAL BUILDING Flávio Chaves, Ana C. V. Vieira, Jorge M. Antunes, Carlos C. Coelho
<b>17:00-19:00</b>		
<b>OS: Urban Risk Reduction and Resilience</b>		
Room: Albufeira I		
Chair ID	<i>Tiago Ferreira and Romeu Vicente</i>	
17h00m-17h20m	127	THE IMPACT OF AWARENESS AND INFORMATION IN DISASTER RISK REDUCTION FOR THE MUNICIPALITY OF AMADORA Luís Carvalho, Ana Freitas, António Farinha, Carlos Rocha, Sandra Neves
17h20m-17h40m	410	RESILIENCE OF WATER SUPPLY SYSTEMS - CASE STUDY OF QUINTA DO LAGO João Caetano, Miguel Oliveira, Elisa Silva, Helena Fernandez, Rui Lança
17h40m-18h00m	419	EVALUATION OF INDUSTRIAL POLLUTION WITH THE SAMPLE OF CYPRUS-LEFKE Vedia Akansu
18h00m-18h20m	471	RESILIENCE TOWARDS HUMAN INTERVENTIONS IN DISPLAY OF ARCTIC CULTURAL HERITAGE SITES Anne-Cathrine Flyen, Cecilie Flyen
18h20m-18h40m	305	ON THE APPLICATION OF RAPID ENVIRONMENTAL MAPPING METHODOLOGIES (REM) TO SEISMIC RISK UNDERSTANDING AND VULNERABILITY MONITORING Massimiliano Pittore, Tobias Boxberger, Kevin Fleming, Stefano Parolai
18h40m-19h00m	387	THE IDENTITY OF CITIES AND LANDSCAPES: A VALUE AT RISK, A VALUE TO SAFEGUARD Maria Paola Gatti, Giorgio Cacciaguerra
<b>17:00-19:00</b>		
<b>OS: Assessment, Diagnosis, Energy Efficiency and Building Refurbishment for Sustainability</b>		
Room: Albufeira II		
Chair	<i>Anabela Paiva e João Carlos Lanzinha</i>	
17h20m-17h40m	306	THERMOGRAPHIC INSPECTION AND HEATING ENERGY AUDIT OF RESIDENTIAL BUILDINGS Egemen Kaymaz

## 41st IAHS World Congress on Housing – Albufeira, Algarve, Portugal

### Detailed Programme of Parallel Sessions

13th September 2016

17h40m- 18h00m	430	USE OF LCA AS A TOOL TO MEASURE CARBON DIOXIDE AND ASSIST IN DECISIONS ABOUT THE MODEL AND THE LOGISTICS OF THE MASONRY SYSTEM PRODUCTION Victor Gomes Barbosa, António Claret de Almeida Gama Junior
18h00m- 18h20m	283	THERMAL COMFORT ASSESSMENT USING IN SITU MEASUREMENTS IN A RETROFITTED HOTEL OCCUPYING AN URBAN MANOR HOUSE Luís Rego, António Curado, Kevin Aleixo, Francisco Laranjeira

Detailed Programme of Parallel Sessions

		<b>09:00-11:00</b>			
		<b>Economics, Financing and Management/ Building Physics</b>			
		Room: Algarve I			
Chair		<i>António Tadeu</i>			
09h00m-09h20m	051	OVERCOMING THE MULTI-STAKEHOLDERS BARRIER IN BUILDING ENERGY RETROFITS: A COMPARATIVE ANALYSIS OF EVALUATION METHODS Pietro Bonifaci, Sergio Copiello, Stefano Stanghellini	09h40m-10h00m	453	SURVEY OF IN-SERVICE GREEN ROOFS IN PORTUGAL Vera Pontes, Cristina Matos Silva, Inês Flores-Colen
09h20m-09h40m	042	OPTIMIZATION OF THE URBAN LICENSES MANAGEMENT IN THE CITY OF MADRID APPLYING INTERNATIONAL STANDARD ISO 21500 Adolfo García Ruiz-Espiga, Manuel Soler Severino	10h00m-10h20m	493	GREEN FAÇADE OPTIMIZATION (GFO): A PARAMETRIC STUDY Roberta Cocci Grifoni, Maria Federica Ottone, Angela Leuzzi
09h40m-10h00m	110	HYGROTHERMAL PERFORMANCE BENEFITS OF THE CELLULOSE FIBRE THERMAL INSULATION STRUCTURES Tuomo Ojanen, Juho Laaksonen	10h20m-10h40m	521	WATER PERMEABILITY OF INSULATION CORK BOARD Ricardo Almeida, António Tadeu, Nuno Simões
10h00m-10h20m	029	MIXED VENTILATION SYSTEMS IN RESIDENTIAL BUILDINGS: APPLICATION OF THE DESIGN PRINCIPLES BASED ON prNP 1037-5 Manuel Pinto, João Viegas, Vasco Freitas	10h40m-11h00m	057	VERTICAL LANDSCAPING IN THE DENSE CITY - PROMOTING ECOSYSTEM SERVICES AND ARCHITECTURAL QUALITIES Ann-Charlott Eriksen
10h20m-10h40m	335	PLASTERING MORTARS WITH EMBEDDED PCMs FOR MOISTURE CONTROL OF OLD RESIDENTIAL BUILDINGS Ana Vaz Sá, Ana Guimarães, Vitor Abrantes, Miguel Azenha, João Meireles	<b>09:00-11:00</b>		
10h40m-11h00m	520	HEAT TRANSFER MEASUREMENTS OF A WOOD BUILDING CORNER Joana Prata, Nuno Simões, António Tadeu	<b>Sustainability and Energy Efficiency</b>		
		Room: Lisboa			
Chair		<i>Ana Vieira</i>			
		<b>ID</b>			
09h00m-09h20m	326	PASSIVE SYSTEMS FOR BUILDINGS INDOOR COMFORT Antonio De Vecchi, Simona Colajanni, Alessandro Licalsi, Elsa Sanfilippo, Marianna Di Salvo, Angela D'Araio	09h40m-10h00m	417	ENERGY EFFICIENCY IN HISTORIC BUILDINGS: ADVANCED TRAINING Fátima Farinha, Eurídice Cristo
09h20m-09h40m	361	DESIGN AND CHARACTERIZATION OF A NEW ASPHALT COLLECTOR FOR SOLAR THERMAL ENERGY HARVESTING Jose Luis Sampedro-Garcia, Alejandro Alonso-Estebanez, Irune Indacoechea-Vega, Pablo Pascual-Muñoz, Daniel Castro-Fresno	10h00m-10h20m	422	CONTROL LOGICS OF NATURAL VENTILATION FOR ENERGY EFFICIENCY AND THERMAL COMFORT Alessandro Rinaldi, Francesco Iannone
09h40m-10h00m	477	ENERGY EFFICIENCY IN HISTORIC BUILDINGS: ADVANCED TRAINING Fátima Farinha, Eurídice Cristo	10h20m-10h40m	443	AUTOMATED ENERGY PERFORMANCE SIMULATION OF RESIDENTIAL BUILDINGS AND THEIR HEATING SYSTEMS Aurelien Bres, Florian Judex, Georg Suter
10h00m-10h20m	422	CONTROL LOGICS OF NATURAL VENTILATION FOR ENERGY EFFICIENCY AND THERMAL COMFORT Alessandro Rinaldi, Francesco Iannone	<b>09:00-11:00</b>		
10h20m-10h40m	443	AUTOMATED ENERGY PERFORMANCE SIMULATION OF RESIDENTIAL BUILDINGS AND THEIR HEATING SYSTEMS Aurelien Bres, Florian Judex, Georg Suter	<b>OS: Experimental Research on Building Rehabilitation</b>		
		Room: Albufeira I			
Chair		<i>Marco Ludovico-Marques and Hugo Biscaia</i>			
09h00m-09h20m	064	PROPOSAL OF A TOOL FOR FEASIBILITY EVALUATION, DESIGN CONTENTS DEFINITION AND PERFORMANCE ASSESSMENT FOR THE IMPLEMENTATION OF GREEN ROOFS ON EXISTING BUILDINGS Carlo Antonio Stival, Raul Berto, Giovanni Cechet, Nicola Strazza, Edino Valcovich			
09h20m-09h40m	149	EXPERIMENTAL ANALYSIS OF THE WATER CONTENT INFLUENCE IN THE THERMAL PERFORMANCE OF SUBSTRATE USED IN GREEN WALLS María del Mar Barbero-Barrera, Jorge Adán Sánchez-Reséndiz, Francesca Olivieri, María Ángeles Navacerrada-Saturio			

Detailed Programme of Parallel Sessions

ID					
09h00m-09h20m	327	A NEW BONDING TECHNIQUE FOR THE REHABILITATION OF OLD TIMBER FLOORS WITH CFRP COMPOSITES Hugo Biscaia, Carlos Chastre, David Cruz, Noel Franco			
09h20m-09h40m	483	EXPERIMENTAL ANALYSIS OF REINFORCED CONCRETE BEAMS STRENGTHENED WITH INNOVATIVE TECHNIQUES Carlos Chastre, Hugo Biscaia, Noel Franco, António Monteiro			
09h40m-10h00m	492	STRUCTURAL MORTAR FOR REPAIR VAULTS OF HISTORICAL HERITAGE. THE ROMAN TEMPLE OF DIANA IN MÉRIDA (SPAIN) José-Carlos Salcedo, Manuel Fortea, Rubén Cabecera, Juan Saumell			
10h00m-10h20m	504	DURABILITY ASSESSMENT OF CONSOLIDATION EFFECT ON SANDSTONE MONUMENTS Marco Ludovico-Marques, Carlos Chastre	14h30m-14h50m	263	A STUDY ON CONCERN BETWEEN CAPACITIES AND ACTIVITIES OF PUBLIC FACILITIES IN JAPAN Shin Murakami, Norie Kawano, Misato Shibata, Eisuke Tabata, Kazuhisa Tsunekawa, Nobuyuki Nomura
10h20m-10h40m	505	DURABILITY IN STRAIN HARDENING CEMENTITIOUS COMPOSITES ACCORDING TO EUROCODE Zehra Canan Girgin, Cihan Yolcu, Muhammed Marasli	14h50m-15h10m	019	NEW INSIGHTS ABOUT THE RELATION BETWEEN THE COST OF BUILDING MATERIALS AND THEIR EMBODIED ENERGY Sergio Copiello, Pietro Bonifaci
10h40m-11h00m	465	BEHAVIOR OF THE MOMENT-ROTATION CURVES OF BOLTED T-STUB CONNECTIONS Mahyar Maali, Mahmut Kılıç, Merve Sağıroğlu, Abdulkadir Cüneyt Aydın	15h10m-15h30m	451	THE PUBLIC PRIVATE PARTNERSHIP IN SUPPORT OF THE DEVELOPMENT OF URBAN PLANNING Genny Cia, Liala Baiardi, Bogdan Fratini
<b>09:00-11:00</b>					
<b>Building Design / OS: BIM – Vision, Strategy and Implementation</b>					
Room: Albufeira II					
Chair	<i>Fernanda Rodrigues</i>				
	<b>ID</b>				
09h00m-09h20m	002	TOWARDS CULTURE-SPECIFIC PRIVATE OUTDOOR LIVING SPACE IN SOUTHERN AFRICAN CLUSTER HOUSING Gerald Steyn			
09h20m-09h40m	014	ENVIRONMENTAL PARAMETERS FOR DESIGN OF BUILDINGS FOR INDIAN CONDITIONS Eshwariah Sheela			
09h40m-10h00m	452	DESIGN OF AN ASSISTED UNIT FOR SIMULATING INDEPENDENT LIVING ACTIVITIES Antonio Frattari, Michela Dalprà, Barbara Bauer, Lorenzo Luchetta			
10h00m-10h20m	311	ADAPTING PORTUGUESE ARCHITECTURE TO FORMER AFRICAN COLONIES CLIMATE CONDITIONS Ana Ferreira Ramos, José Mendes da Silva	14h30m-14h50m	428	STATISTICAL ANALYSIS OF WATER CONSUMPTION PATTERN IN UNIVERSITY BUILDINGS Inês C. Meireles, Vitor Sousa, Armando Silva-Afonso
10h20m-10h40m	329	COLLABORATION AND BIM SUPPORTIVE PROJECT EXECUTION MODEL FOR THE CONSTRUCTION INDUSTRY	14h50m-15h10m	461	ECONOMICAL CRITERIA TO SIZE RAINWATER HARVESTING TANKS: HOW THE RAINFALL DATA CAN INTERFERE?
		Øystein Mejlænder-Larsen, Cecilie Flyen, Bjørn Erik Lie			
		<b>14:30-16:30</b>			
		<b>Economics, Financing and Management / Building Physics</b>			
		Room: Algarve I			
		Chair <i>Nuno Biga</i>			
		<b>ID</b>			



Detailed Programme of Parallel Sessions

15h10m-15h30m	486	Marcus André Siqueira Campos, Gabriela Cristina Ribeiro Pacheco RAINWATER HARVESTING SYSTEM IN UTAD CAMPUS ONE WAY IN THE PATH TO ECO-CAMPUS Cristina Matos, Isabel Bentes, Sandra Pereira, Amadeu Borges
15h30m-15h50m	500	COST OF WATER EFFICIENCY MEASURES IN COMMERCIAL BUILDINGS Cristina Matos Silva, Vítor Sousa, Pedro Teixeira, Inês C. Meireles, Armando Silva-Afonso
15h50m-16h10m	237	FAILURE OF STORMWATER OF UNDERGROUND INFILTRATION DEVICE - CASE STUDY OF IMPROPER DESIGN Gabriel Markovič, Martina Zelenakova, Vlasta Ondrejka Harbulakova
16h10m-16h30m	365	WATER SAVING AND ANTI-LEAKAGE SYSTEM FOR FLUSH CISTERNS Vítor Costa, João Rocha, Andreia Costa
<b>14:30-16:30</b>		
<b>Sustainability and Energy Efficiency</b>		
Room: Lisboa		
Chair ID		
14h30m-14h50m	503	PREFABRICATED MULTI-ACTIVE FACADE ELEMENTS FOR ENERGY RENOVATION OF MULTI-FAMILY HOUSES - A THEORETICAL CASE-STUDY IN SWEDEN Luis Ricardo Bernardo, Ahmed Hadzimuratovic, Markus Sw edmark, Stephen Burke, Rikard Nilsson, Tomas Ekström, Susanne Gosztanyi, Åke Blomsterberg
14h50m-15h10m	514	DEFINING AN ANNUAL ENERGY OUTPUT RATIO BETWEEN SOLAR THERMAL COLLECTORS AND PHOTOVOLTAIC MODULES João Gomes, Jana Junge, Tiffany Lehmann, Björn Karlsson
15h10m-15h30m	203	THE ENVIRONMENTAL IMPACT OF A TEMPORARY LIGHTWEIGHT BUILDING Mariangela De Vita, Pierluigi De Berardinis, Paolo Beccarelli
15h30m-15h50m	101	PARALLELIZATION OF PARAMETRIC RUNS WITH ENERGYPLUS FOR BUILDINGS REFURBISHMENT ENERGY CALCULATIONS João Coelho, Ana Brandão de Vasconcelos, António Silva
15h50m-16h10m	518	PASSIVE MEASURES FOR ENERGY RENOVATION OF A SECONDARY SCHOOL: PILOT PROJECT "ISTITUTO FLORIANI" Antonio Frattari, Irene Ferro
16h10m-16h30m	291	STUDY ON EXPERIMENTAL TECHNOLOGIES AND SYSTEMS FOR REUSE OF EXPO BUILDINGS Shiro Watanabe, Takayuki Isobe

**14:30-16:30**

**Technical Sessions / Materials and Building Technology**

Room: Albufeira I  
*Carlos Duarte*

Chair ID

14h30m-14h50m

TS

“Amorim Isolamentos” - Insulation cork products

Carlos Manuel

14h50m-15h10m

TS

“Secil Argamassas” - Production of Natural Hydraulic Lime and Industrial Dry Mortars

Natércia Trindade

15h10m-15h30m

523

BUILDING SOLUTIONS INCORPORATING MEDIUM DENSITY EXPANDED CORK

Rosário Fino, Nuno Simões, António Tadeu

15h30m-15h50m

524

NEW NATURAL HYDRAULIC LIME IN REHABILITATION

André Correia, Dina Frade, Ana Sofia Santos

**14:30-16:30**

**OS: Enabling Smart Buildings: ICT for Energy-efficient Buildings**

Room: Albufeira II  
*Isabel Pinto Seppä*

Chair ID

14h30m-14h50m

134

EFFECTS AND MEANS OF ENERGY SAVING TECHNOLOGY IN AN INNOVATIVE SMART HOUSE

Yasushi Ikeda, Yuto Sasaki, Kei Watanabe

14h50m-15h10m

320

NEW KPIS AND TOOLS FOR PLANNING ENERGY EFFICIENT BUILDINGS AND NEIGHBOURHOODS

Aapo Huovila, Krzysztof Klobut, Juha Hyvärinen

15h10m-15h30m

328

APPLICATION OF SEMANTIC MEDIA WIKIS FOR TECHNOLOGY MONITORING IN THE CONSTRUCTION INDUSTRY

Jonathan Masior, Stephan Schüle

15h30m-15h50m

342

EEBERS – ICT FOR ENERGY EFFICIENT BUILDINGS

Detailed Programme of Parallel Sessions

15h50m-16h10m	370	Esa Nykänen, Isabel Pinto-Seppä, Stephan Schüle, Javier Royo, Joaquin Gomez, Farid Fouchal, Tarek Hassan DESIGN SPECIFICATION AND SYSTEM ARCHITECTURE OF A DECISION SUPPORT OF ENERGY EFFICIENCY BUILDING RETROFIT AND MAINTENANCE INSTRUCTIONS Farid Fouchal, Tarek Hassan, Steven Firth, Shen Wei, Vanda Dimitriou	17h40m-18h00m	122	Armando Silva-Afonso, Carla Pimentel-Rodrigues RAINWATER HARVESTING AND GREYWATER RECYCLING: GUIDELINES TO PREVENT CONTAMINATION OF POTABLE WATER IN BUILDING SYSTEMS
			18h00m-18h20m	159	Marco Fernandes Caetano, Helena Tavares da Silva ALTERNATIVE WATER RESOURCES AS A WAY FOR REDUCING DEPENDENCE ON MAINS WATER SUPPLY Gabriel Markovič, Zuzana Vranayová, Daniela Káposztasová
			18h20m-18h40m	201	CONSTRUCTED WETLANDS AS A TOOL OF ALTERNATIVE WATER TREATMENT SYSTEM Martina Rysulova, Daniela Káposztasová, Zuzana Vranayová, Joana America Castellar
<b>17:00-19:00</b>					
<b>Economics, Financing and Management</b>					
Room: Algarve I					
Chair <i>Nuno Biga</i>					
17h00m-17h20m	511	IMPROVING PUBLIC TRANSPORT MANAGEMENT THROUGH OPTIMISING USE OF RESOURCES: A CASE STUDY Nuno Biga, Jorge M. Bandeira, Vítor Abrantes			
17h20m-17h40m	322	COMPARATIVE ANALYSIS OF THE RESIDENTIAL REAL ESTATE IN J-REIT AND GLOBAL REIT Nobuyoshi Noso, Kazuyoshi Endo			
17h40m-18h00m	255	MODEL TO FORECAST THE NUMBER OF HOUSING STARTS IN JAPAN IN THE MEDIUM TO LONG TERM FUTURE Saori Watanabe, Kazuyoshi Endo			
18h00m-18h20m	499	MANAGEMENT OF SMALL PROJECTS WITH SCRUM METHOD Manuela Cristina Timóteo			
<b>17:00-19:00</b>					
<b>OS: Sustainable and Water Efficient Buildings</b>					
Room: Algarve II					
Chair <i>Armando Silva Afonso</i>					
17h00m-17h20m	011	GREEN ROOFS AS A TOOL TO PROMOTE WATER EFFICIENCY IN BUILDINGS Cristina M. Monteiro, Cristina S. C. Calheiros, Carla Pimentel-Rodrigues, Armando Silva-Afonso, Paula M. L. Castro			
17h20m-17h40m	100	EVALUATION OF THE WATER EFFICIENCY OF BUILDINGS: THE PORTUGUESE APPROACH			
			17h00m-17h20m	112	HOUSING AND HEALTH – PROPOSAL OF A METHODOLOGY FOR RISK ASSESSMENT FOR OCCUPANTS Marisa Monteiro, João C. G. Lanzinha, M. Ramiro Pastorinho
			17h20m-17h40m	147	POST OCCUPANCY EVALUATION OF VERNACULAR HERITAGE HOUSING IN MADEIRA: A CASE STUDY OF INHABITANTS' SATISFACTION Jorge S. Carlos, Ana M. T. Martins, Elma Vieira
			17h40m-18h00m	154	THE ROLE OF AN INTEGRATED METHODOLOGY: ASSESSMENT OF HISTORIC RESIDENTIAL BUILDINGS FROM PORTO Cílisia Ornelas, João Miranda Guedes, Isabel Breda-Vázquez
			18h00m-18h20m	368	THE IMPACT OF THERMAL BEHAVIOUR REGULATION ON HOUSING BUILDING REHABILITATION Teresa Neto, Isabel Teles
			18h20m-18h40m	408	REVIEW OF DEVELOPMENTS AND NEW INNOVATIONS IN TEMPORARY HOUSING AND FOLDABLE BUILDINGS Merve Sağıroğlu, Ali M. Memari
<b>17:00-19:00</b>					
<b>Materials and Building Technology</b>					
Room: Albufeira I					
Chair <i>Julieta Antonio</i>					

Detailed Programme of Parallel Sessions

	ID	
17h00m-17h20m	468	ASSESSMENT OF INTERNAL CONDENSATION RISK IN AN INNOVATIVE SUSTAINABLE WALL COMPOSED OF RICE BY-PRODUCTS Beatriz Marques, António Tadeu, Jorge de Brito, João Almeida, João Rama
17h20m-17h40m	506	SOUND ABSORPTION SOLUTIONS USING PERFORATED CORK PANELS Julieta António, António Tadeu, Vasco Pinto, Tiago Ferreira
17h40m-18h00m	041	LINOLEUM AS FLOOR COVERING: CHARACTERISTICS, APPLICATION AND MAINTENANCE Raquel F. Bastos, Paulo M. da Silveira
17h20m-17h40m	507	THERMAL AND ACOUSTIC PERFORMANCE OF INTERLOCKING COMPRESSED EARTH BLOCKS MASONRY Dinis Leitão, Ana Briga Sá, Edgar Soares, Tiago Miranda
17h40m-18h00m	494	DYNAMIC SIMULATION OF THE TROMBE WALL THERMAL PERFORMANCE Ana Briga Sá, Ivo Pinto, Anabela Paiva

**17:00-19:00**

**OS: Enabling Smart Buildings: ICT for Energy-efficient Buildings**

Room: Albufeira II

Chair *Isabel Pinto Seppä*

17h00m-17h20m	432	DEMONSTRATION OF MANAGEMENT AND DECISION SUPPORT SYSTEMS FOR ENERGY POSITIVE NEIGHBOURHOODS Janne Rasi, Olli Nummelin, Kalevi Piira, Esa Nykänen
17h20m-17h40m	433	ICT-TECHNOLOGIES FOR ENERGY EFFICIENT BUILDINGS AND DISTRICTS Krzysztof Klobut, Max Boegli, Yves Stauffer, Itzal del Hoyo, Alfredo Samperio
17h40m-18h00m	436	UNDERSTANDING ENERGY FUTURES THROUGH EVERYDAY LIFE OBSERVATION FOLLOWING AN ETHNOGRAPHIC APPROACH Sarah Pink, Yolande Strengers, Marta Fernandez, Amalia Sabiescu
18h00m-18h20m	325	MOEBIUS ENERGY PERFORMANCE OPTIMIZATION FRAMEWORK IN BUILDINGS FOR URBAN SUSTAINABILITY Ander Romero, Borja Tellado, Tasos Tsitsanis
18h20m-18h40m	348	ORBEET ORGANIZATIONAL BEHAVIOUR IMPROVEMENT FOR ENERGY EFFICIENT ADMINISTRATIVE PUBLIC OFFICES Jon Martínez, Konstantinos Tsatsakis, Eleana Hatzoplaki

Detailed Programme of Parallel Sessions

		<b>09:00-11:00</b>			
		<b>Urban Planning / Applied Social Sciences in Housing</b>			
		Room: Algarve I			
Chair		<i>Nuno Biga</i>			
09h00m-09h20m	330	SANTA LUZIA QUARTER: LEARNING WITH DESIGN PRACTICE	09h40m-10h00m	276	A STUDY OF THE ECODISTRICTS MORPHOLOGY IMPACT ON THERMAL COMFORT IN OUTDOOR SPACES - PART I: IN TEMPERATE OCEANIC CLIMATE
		Nuno Abrantes, Fernando Brandão Alves, Vitor Abrantes			Khaled Athamena, Jean-François Sini, Julien Guilhot
09h20m-09h40m	318	THE NEW PORTUGUESE LEGAL FRAMEWORK FOR LAND POLICIES AND LAND-USE PLANNING: OPPORTUNITIES FOR A NEW PRACTICE	10h00m-10h20m	099	IDENTITY, SUSTAINABILITY AND PERCEPTION IN TRADITIONAL NEIGHBORHOODS TRABZON/AKÇAABATORTAMAHALLE EXAMPLE
		Paulo Vasconcelos Dias Correia, Ana Morais de Sá			Ayça Araz Ustaömeroğlu
09h40m-10h00m	130	THE ROLE OF CIVIL SOCIETY GROUPS IN HOUSING DEVELOPMENT IN BRAZIL: THE PROGRAM MINHA CASA MINHA VIDA - ENTIDADES (MCMV-E).	10h20m-10h40m	074	REHABILITATION OF ADOBE BUILDINGS. UNDERSTANDING DIFFERENT MATERIALS FROM TWO REGIONS OF PORTUGAL (FIGUEIRA DA FOZ AND MIRA)
		Paula Noia, Gonzalo Lizarralde, Erica Yoshioka, Lisa Bornstein, Ricardo Leoto			Cristiana Costa, Ana Velosa, Fernando Rocha
10h00m-10h20m	018	MEASURING HOUSING SATISFACTION THROUGH THE USE OF STRUCTURAL EQUATION MODELLING			
		Clinton Aigbavboa			
10h20m-10h40m	216	INTERLINKING LANDSCAPE ELEMENTS WITH USERS' PERCEPTION OF SAFETY AT CITY LEVEL PARKS IN INDIA FOR SAFER GREEN OPEN SPACES IN THE BUILT ENVIRONMENT	09h00m-09h20m	036	ZERO ENERGY BUILDINGS: A PROPOSAL OF A SIMPLIFIED TOOL FOR THE ZEB STATUS ASSESSMENT
		Aditi T Koshley, Jaydip Barman			Enrico Sergio Mazzucchelli, Chiara Porcari
10h40m-11h00m	515	IMPACT OF SOCIO-ECONOMIC STATUS ON THE ATTACHMENT TO DWELLING AND LIVING ENVIRONMENT IN PROJECT AFFECTED PEOPLE	09h20m-09h40m	209	'THE NEED TO ADVANCE THE ENERGY PERFORMANCE BUILDINGS DIRECTIVE (EPBD) TOWARDS THE EU ENERGY ROADMAP FOR 2050'
		Priyanka Dey, Subrata Chattopadhyay			João Flores, Júlia Seixas, António Mourão, Miguel Cavique
		<b>09:00-11:00</b>			
		<b>Sustainable Architecture</b>			
		Room: Algarve II			
Chair		<i>Ana Ferreira Ramos</i>			
ID				Chair	
09h00m-09h20m	009	VERNACULAR FLEXIBILITY: THE CONCEPT AND STRATEGY OF ADAPTABLE DEVELOPMENT OF THE UNFINISHED INHABITATED SELF-BUILT DWELLINGS IN ALBANIA	09h40m-10h00m	251	LOW THERMAL INERTIA CASE STUDY: THERMAL ANALYSIS EVALUATION USING DIFFERENT APPROACHES
		Anna Y unitsyna			Rui Oliveira, António Figueiredo, Romeu Vicente
09h20m-09h40m	038	WASTE MANAGEMENT AND MATERIAL RECYCLE AS A POTENTIAL OF SUSTAINABLE BUILDING ENVELOPE FOR LOW INCOME HOUSING	10h00m-10h20m	377	THERMAL COMFORT PERFORMANCE OF A PASSIVE HOUSE IN SUMMER UNDER A MEDITERRANEAN CLIMATE
		Samar M. Shew eka, Amira Elnokaly			Fábio Vidal, Inês C. Meireles, Romeu Vicente, Vitor Sousa, Fernanda Rodrigues
			10h20m-10h40m	082	ARCHITECTURAL FEATURES AND SYSTEMS TO APPLY THE ZERO ENERGY BUILDING (NZEB) CONCEPT IN BRAZIL
					Louise Land Bittencourt Lomardo, Diego Souza Caetano, Angélica B. Sampaio, Ana Paula da C. Esteves
			10h40m-11h00m	489	BIM DEVELOPMENT IN PORTUGAL: ROADMAP PROPOSAL FOR A CONTRIBUTION TO A SUSTAINABLE AECO SECTOR
					Maria João Falcão Silva, Filipa Salvado, Paula Couto, Álvaro Vale e Azevedo

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		<b>09:00-11:00</b>			REHABILITATION PROCESS
		<b>Materials and Building Technology</b>			Francesca Guidolin
		Room: Albufeira I		10h00m-10h20m	049 SUSTAINABLE HERITAGE: HIGH-RISE BUILDING STRUCTURES BUILT 1955-1965 IN ZAGREB, CROATIA
		Chair <i>Jorge de Brito</i>			Iva Muraj
	Chair ID				
09h00m-09h20m	085	TABIQUE WALLS COMPOSITE EARTH-BASED CHARACTERIZATION IN THE ALTO DOURO WINE REGION, PORTUGAL		10h20m-10h40m	084 GROWTH CURVES APPLIED TO THE SERVICE LIFE PREDICTION OF CERAMIC CLADDINGS
		Rui Cardoso, João Carlos Lanzinha, Jorge Pinto, Anabela Paiva			Ana Silva, Jorge de Brito, Pedro Lima Gaspar
09h20m-09h40m	094	A CONTRIBUTION TO SUSTAINABLE STRUCTURES BY USING WASTE IN CONCRETE MATERIALS FOR IMPROVING THEIR DURABILITY		10h40m-11h00m	411 GIS APPLICATION IN URBAN DISTRICTS MAINTENANCE
		Adriana Estokova, Michaela Smolakova, Alena Luptakova			Sebastiano Maltese, Giulia Fradegrada, Nicola Moretti, Mario Claudio Dejaco, Fulvio Re Cecconi
09h40m-10h00m	095	BRICK STAIRCASES AT THE HEART OF ANCIENT NAPLES - TYPOLOGICAL, MATERIAL AND TECHNOLOGICAL KNOWLEDGE			
		Flavia Fascia, Emanuele La Mantia, Aldo Rosato			
10h00m-10h20m	103	DEVELOPMENT OF COMPRESSIVE STRENGTH OF CONCRETES HAVING HIGH DOSAGE OF SCM'S AND THEIR ACTIVATION POSSIBILITIES			
		Alena Sicakova, Marek Kovac, Matej Spak			
10h20m-10h40m	111	CHANGES IN TECHNOLOGICAL PARAMETERS OF SELECTED WASTE AGGREGATES AFTER THE SURFACE TREATMENTS FOR USE IN CONCRETE			Chair ID
		Alena Sicakova, Karol Urban, Jozef Junak, Marcela Ondova			
10h40m-11h00m	079	INNOVATIONS WITH CONCRETE AND RECYCLED MATERIAL USE IN INFORMAL HOUSING, SEEKING HEAT COMFORT		14h30m-14h50m	116 MANAGEMENT, CONSERVATION AND REHABILITATION OF THE HISTORIC HOUSING STOCK IN CAIRO, EGYPT
		Carolina da Silva Leonardo, Louise Land Bittencourt Lomardo, Diego Souza Caetano, Paula de Castro Brasil			Aliaa AlSadaty
		<b>09:00-11:00</b>		14h50m-15h10m	200 CAN TEMPORARY ARCHITECTURE IMPROVE OUTDOOR CONDITIONS IN RESIDENTIAL DISTRICTS?
		<b>Rehabilitation, Retrofitting and Refurbishment</b>			Timothy Daniel Brownlee, Ernesto Cesario, Federica Ottone, Simone Pirro
		Room: Albufeira II		15h10m-15h30m	307 UTILIZING METHOD OF HOUSING AND RESIDENTIAL DATA BASED ON NATIONAL STATISTICS, AND BASIS EXAMINATION OF MANAGEMENT METHOD ABOUT HOUSING STOCKS IN SITUATION OF POPULATION
		Chair <i>Lurdes Belgas</i>			Koya Utsumi
	Chair ID			15h30m-15h50m	336 SMART CITY PERFORMANCE MEASUREMENT SYSTEM
09h00m-09h20m	008	THE ARCHITECTURAL AND ENVIRONMENTAL RETROFITTING OF PUBLIC SOCIAL HOUSING AS A RESOURCE FOR CONTEMPORARY CITIES. THE REDESIGN OF BUILDING ENVELOPES			Aapo Huovila, Miimu Airaksinen, Isabel Pinto-Seppä, Kalevi Pira, Topi Penttinen
		Roberto Bianchi, Spartaco Paris		15h50m-16h10m	341 CIB SMART CITY ROAD MAP AND VISION
09h20m-09h40m	015	CONSTRAINTS ON THE REHABILITATION OF BUILDINGS IN OLD URBAN AREAS			Isabel Pinto-Seppä, Miimu Airaksinen, Terttu Vainio
		Lurdes Belgas, Jorge Mascarenhas, Fernando G. Branco		16h10m-16h30m	510 INFLUENCE OF RUNOFF ON URBAN WASTEWATER - THE HUELVA CASE
09h40m-10h00m	016	THE EXOSKELETON SYSTEM AS A SOCIO-TECHNICAL DEVICE. COUPLING TECHNICAL DEVICES AND SOCIAL INVOLVEMENT IN THE			Ricardo Arribas de Paz, Inmaculada Salvador Crespo, Marta Montañez Entrenas

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		<b>14:30-16:30</b>		15h50m-16h10m	243	BIM METHODOLOGY APPLIED TO THE MANAGEMENT OF A WASTEWATER PUMPING STATION Hugo Pina, Fernanda Rodrigues, Hugo Rodrigues
		<b>Sustainable Architecture</b>		16h10m-16h30m	491	IFC INTEROPERABILITY FOR BIG DATA INTEGRATION IN A BIM COLLABORATIVE ENVIRONMENT José Barateiro, Paula Couto, Maria João Falcão Silva, Filipa Salvado
Chair		Room: Algarve II				
<b>ID</b>		<i>Carlos Duarte</i>				
14h30m-14h50m	137	WASTE IS MORE WASTE REUSE IN ARCHITECTURE Tiziana Firrone, Carmelo Bustinto, Eleonora Montalbano				
14h50m-15h10m	123	LCA BENCHMARKS IN BUILDING'S ENVIRONMENTAL CERTIFICATION SYSTEMS Sara Ganassali, Monica Lavagna, Andrea Campioli				
15h10m-15h30m	135	CHANGE MANAGEMENT AND NEW EXPERTISE IN AEC FIRMS: IMPROVEMENT IN ENVIRONMENTAL COMPETENCE Anna Dalla Valle, Monica Lavagna, Andrea Campioli		14h30m-14h50m	145	ANALYSIS OF INDOOR RELATIVE HUMIDITY IN SCHOOLS THROUGH THE QUANTIFICATION OF ABSORBED WATER IN BUILDING MATERIALS Susana Lagüela, Ana Álvarez, Patricia Liñares, Sonia Zaragoza, Henrique Lorenzo
15h30m-15h50m	173	TRANSFORMATION OF DERELICT INDUSTRIAL SITES: FROM INDUSTRY TO CULTURE Soheil Khoshkholghi, Solmaz Khoshkholghi, Yunus Turan Pekmezci		14h50m-15h10m	232	EVALUATION OF BORON COMPOUNDS AS ADDITIVES IN BUILDING MATERIAL PRODUCTION WITHIN THE CONTEXT SUSTAINABILITY Tufan Bora Samuk, Mahmure Ovul Arioglu Akan, Nihal Arioglu
15h50m-16h10m	142	LOW-COST HOUSING MODELS Ana Carolina Monteiro, Miguel Pires Amado		15h10m-15h30m	296	ANALYSIS OF THE CRYSTALLINE WATERPROOFING BEHAVIOR IN REPAIRING CRACKS IN CONCRETE Vanessa G. Cappellesso, Natália dos S. Petry, Denise C. C. Dal Molin, Angela B. Masuero
		<b>14:30-16:30</b>				
		<b>OS: BIM – Vision, Strategy and Implementation</b>				
Chair		Room: Lisboa		15h30m-15h50m	385	EVALUATION OF THE PHYSICAL AND MECHANICAL PROPERTIES OF RECYCLED AGGREGATES. PROPERTY CLASSIFICATION ACCORDING TO THE EUROPEAN STANDARDS FOR CONCRETE AND MORTAR Miguel Oliveira, Matthias Eckert
<b>ID</b>		<i>Fernanda Rodrigues and Hugo Rodrigues</i>		15h50m-16h10m	501	CONSTRUCTION SYSTEM WITH PREFABRICATED LIGHTWEIGHT CONCRETE PANELS – CHARACTERIZATION TESTS João Veludo, Florindo Gaspar, Paulo Fernandes, Hugo Rodrigues, Carla Sousa
14h30m-14h50m	126	AUTOMATED RULE-CHECKING – A TOOL FOR DESIGN DEVELOPMENT João Poças Martins, Bárbara Rangel, Vitor Abrantes		16h10m-16h30m	482	CEMENTITIOUS COMPOSITE FROM PORCELAIN TILE GROUT: ANALYSIS OF THEIR PROPERTIES AND APPLICATION FOR SUSTAINABILITY Daniela Casagrande Matos, Ivete Peixoto Pinheiro Silva, Claudinei Rezende Calado, Augusto César da Silva Bezerra
14h50m-15h10m	152	USE OF BIM FOR THE PLANNING OF MAINTENANCE ACTIONS IN A HISTORICAL-MONUMENTAL BUILDING Santi Maria Cascone, Nicoletta Tomasello				
15h10m-15h30m	218	BIM-BASED MULTI-MODEL FRAMEWORK FOR ENERGY EFFICIENT BUILDING DESIGN Peter Katranuschkov, Raimar Scherer, Constantinos Balaras				
15h30m-15h50m	391	CRITICAL FACTORS FOR THE SUCCESSFUL IMPLEMENTATION OF AN INTEGRATED BUILDING INFORMATION MODELLING AND ENTERPRISE RESOURCE PLANNING IN THE SOUTH AFRICAN CONSTRUCTION INDUSTRY Mphumi Mathegu, Clinton Aigbavboa				
		<b>14:30-16:30</b>				
		<b>Materials and Building Technology</b>				
		Room: Albufeira I				
		<i>Miguel Oliveira</i>				
		<b>14:30-16:30</b>				
		<b>Rehabilitation, Retrofitting and Refurbishment</b>				
		Room: Albufeira II				

Detailed Programme of Parallel Sessions

Chair ID	Time	Title	Speakers
096	14h30m-14h50m	BRICK STAIRCASES AT THE HEART OF ANCIENT NAPLES - MAINTENANCE AND CONSOLIDATION	Renato Iovino, Emanuele La Mantia, Aldo Rosato
512	14h50m-15h10m	BUILDING ORIENTATION AND DISCOUNT RATES: THE IMPACT ON A REFURBISHMENT DECISION	Ana Brandão de Vasconcelos, António Cabaço, Manuel Pinheiro
175	15h10m-15h30m	INNOVATIVE REFURBISHMENT STRATEGIES FOR POORLY PERFORMING HOUSING STOCK IN SCOTLAND, UK	Julio Bros-Williamson, Jon Stinson, Alasdair Reid, Dorian Gravrand
231	15h30m-15h50m	ECO-FRIENDLY STUDENT HOUSING AS A WAY TOWARDS BUILDINGS REFURBISHMENT AND URBAN RENEWAL	Oscar Eugenio Bellini
434	15h50m-16h10m	PRESERVATION OF THE HOUSE OF VENUS IN THE ARCHAEOLOGICAL SITE VOLUBILIS (MOROCCO)	Issam Aalil, Kevin Beck, Xavier Brunetaud, Dalal Badreddine, Khalid Cherkaoui, Ali Chaaba, Muzahim Al-Mukhtar

17:00-19:00

Urban Planning

Room: Algarve I  
Nuno Simões

Chair ID	Time	Title	Speakers
113	17h00m-17h20m	EVALUATING GEODESIGN WITH ECOPHYSIOGRAPHY	Saye Nihan Çabuk, Mehmet Değerliyurt, Taki Can Metin, Alper Çabuk
056	17h20m-17h40m	CURRENT STATUS AND ISSUES OF PUBLIC HOUSING REDEVELOPMENT PROJECTS WITH PUBLIC-PRIVATE PARTNERSHIP APPROACH IN JAPAN	Yoshiro Morita, Shuichi Matsumura, Seiji Kobata, Ryohei Hashida
437	17h40m-18h00m	ANALYSIS OF INTERLOCUTION BETWEEN HOUSING POLITICS OF JUIZ DE FORA AND PROGRAMA MINHA CASA, MINHA VIDA	Livia R. A. Muchinelli, Raquel F. F. Hellich, Nádia de O. Camacho
389	18h00m-18h20m	A DIALOGUE ON THE GENESIS OF HOUSING PROBLEMS IN SOUTH AFRICA	Clinton Aigbavboa

17:00-19:00

Sustainable Architecture

Room: Algarve II  
Tiziana Firrone

Chair ID	Time	Title	Speakers
181	17h00m-17h20m	CONSTRUCTIVE ASPECTS AND CONTRADICTIONS OF EARTHEN BUILDING: CRITICAL PERSPECTIVES	Maria Costi de Castrillo, Panayiota Ioanni Pyla
185	17h20m-17h40m	SELF-FORMED MICRO ARCHITECTURE FOR SUSTAINABLE HABITATIONS	Walter Klasz
223	17h40m-18h00m	CUSTOMIZED PREFABRICATION: A NEW EXPERIENCE OF LIVING	Simone Pirro, Maria Federica Ottone, Timothy Daniel Browne
469	18h00m-18h20m	MEMORABLE PLACES AS SUSTAINABLE PLACES, CASE STUDY: KARAKÖY	Armin Tayyebiazar, Mahsa Safaei

17:00-19:00

OS: BIM – Vision, Strategy and Implementation

Room: Lisboa  
Fernanda Rodrigues and Hugo Rodrigues

Chair ID	Time	Title	Speakers
304	17h00m-17h20m	A BIM-BASED SOLUTION TO SUPPORT EARNED VALUE MANAGEMENT IN CONSTRUCTION	Anne-Marie Mushamalirwa, André Reis Antunes, António Aguiar Costa
347	17h20m-17h40m	INCORPORATING PARAMETRIC TOOLS TO GENERATE AND ANALYZE THE BUILDING VIRTUAL MODEL INTO THE TECHNICAL DEGREE STUDENT'S FORMATION	José Vázquez-Rodríguez, Dolores Otero-Chans, Javier Estévez-Cimadevila, Félix Suarez-Riestra
288	17h40m-18h00m	TOWARDS TO GIS-BIM INTEGRATION ON CONSTRUCTION LOGISTICS	Adem Emre Cengiz, Alper Çabuk, Osman Aytekin, Ilker Ozdemir
244	18h00m-18h20m	A BIM-BASED FRAMEWORK FOR SAFETY INTEGRATION DURING DESIGN	Fernanda Rodrigues, Joel Estrada, Paul Swuste

Detailed Programme of Parallel Sessions

18h20m-18h40m 490 STANDARDIZED BIG DATA IN BIM OBJECTS FOR A SUSTAINABLE FACILITY MANAGEMENT OF BUILDINGS  
Filipa Salvado, Maria João Falcão Silva, Paula Couto, Álvaro Vale e Azevedo

**Materials and Building Technology**

Room: Albufeira I

*Jorge Tiago Pinto*

Chair  
**ID**

17h00m-17h20m 031 NEW CONSTRUCTION MATERIALS AND TECHNOLOGIES FOR CONTEMPORARY BUILDING ENVELOPES  
Genny Cia, Valentina Puglisi, Alberto Celani

17h20m-17h40m 052 ENVIRONMENTAL ASSESSMENT OF CARDBOARD AS A BUILDING MATERIAL FOR TRANSITIONAL HOUSING  
Mirian Sayuri Vaccari

17h40m-18h00m 068 THE LICENSED BUILDING PRACTITIONERS SCHEME: FOUR YEARS ON  
Chris Murphy

18h00m-18h20m 418 CONSTRUCTIVE CHARACTERISTICS OF CATALAN VAULT THROUGH THE CONSTRUCTION EXPERIMENT OF FULL SCALE FLOOR MODEL  
Ryohei Kumagai, Ayako Maeshima

18h20m-18h40m 003 IN DISCUSSION: HOW TO AVOID RADON IN BUILDINGS  
Elisabeth M. F. Severo, Hipólito J. C. de Sousa

**Rehabilitation, Retrofitting and Refurbishment**

Room: Albufeira II

*Ana Velosa*

Chair  
**ID**

17h00m-17h20m 278 DISSOLUTION AND REBUILDING OF TEMPORARY HOUSING BY WOODEN CONSTRUCTION METHOD "ITAKURA" IN JAPAN  
Yasuo Omi

17h20m-17h40m 279 CASA CARMELITA: BALANCING THE BENEFITS AND CHALLENGES OF MODERNIZATION WHILE REHABILITATING A RESIDENTIAL HISTORIC BUILDING  
Francisco Borvice

17h40m-18h00m 287 IS REGENERATION SUFFICIENT FOR URBAN SECURITY? BURSA/TURKEY AS A CASE

18h00m-18h20m 338 REUSE OF ABANDONED MONASTERIES. METHODOLOGIES AND A CASE STUDY  
Rengin Beceren Ozturk, Arzu Çahantimur  
Pierfrancesco Fiore

18h20m-18h40m 233 "EMBRÉCHADOS" - CONSERVING A TECHNIQUE  
Ana Velosa, Luís Mariz



Detailed Programme of Parallel Sessions

		<b>Tourism and Regional Development / OS: Urban Risk Reduction and Resilience</b>	10h00m-10h20m	372	THE DIFFUSION OF ENERGY STAR CERTIFICATIONS INTO US HOUSING MARKETS 2002-2013 Andrew Sanderford, Andrew McCoy, Matthew Keefe, Charles Theodore Koebel
		Room: Algarve I	10h20m-10h40m	388	MIXED PUBLIC POLICY AND MARKET PROVISION OF AFFORDABLE HOUSING: BUILDING, COST AND PROGRAM CONSIDERATIONS Theodore Koebel, Andrew McCoy
Chair ID					
09h00m-09h20m	169	AN ADAPTIVE REUSE EXPERIENCE FOR SUSTAINABLE CULTURE TOURISM: A CASE STUDY ON THE HISTORICAL TEXTURE OF SİLLE/TURKEY Ebru Erdoğan, Hacı Abdullah Erdoğan	10h40m-11h00m	472	IMPACTS OF HOUSING TECHNOLOGY AND BEHAVIOR ON ENERGY EFFICIENCY FOR AFFORDABLE RENTAL HOUSING Dong Zhao, Andrew McCoy, Philip Agee, Teni Ladipo
09h20m-09h40m	176	UTILISING URBAN DESIGN, RECONSIDERING THE COLONIAL LEGACY; TOWARDS THE MUSEUMISATION OF KHARTOUM'S CITY CENTRE Muna Eltahir, Malathe Hamid			<b>09:00-10:40</b>
09h40m-10h00m	282	CULTURAL TOURISM AT TRADITIONAL SETTLEMENTS: EXAMPLE OF HISTORICAL SUR AREA OF DIYARBAKIR Yadigar Berivan Ozbudak Akca, Fatma Demet Aykal			<b>Rehabilitation, Retrofitting and Refurbishment/ Building Design</b>
10h00m-10h20m	277	PRIORITIZATION OF PUBLIC INVESTMENT IN REGIONAL SPATIAL PLANNING – THE CASE OF ALGARVE Paulo Correia, Carlos Bana-e-Costa			Room: Lisboa <i>Gerald Steyn</i>
10h20m-10h40m	334	VULNERABILITY ASSESSMENT TOOLS: FORECASTING AND ARTIFICIAL INTELLIGENCE Rocío Ortiz, Juan Manuel Macías-Bernal, Pilar Ortiz			Chair ID
		<b>09:00-10:40</b>	09h00m-09h20m	364	TEACHING FAÇADE RETROFITS: REFLECTIONS ON FOUR APPROACHES Patrick P. Charles, Jo Ruoff
		<b>OS: Innovating the Home: Innovative Perspectives on the US Housing Market</b>	09h20m-09h40m	398	ACOUSTIC CHARACTERIZATION OF TRADITIONAL WOOD PAVEMENTS Rui Calejo, Dóris Queirós, Rogério Silva
		Room: Algarve II <i>Andrew McCoy</i>	09h40m-10h00m	344	IN-SITU ANALYSIS OF THERMAL PERFORMANCE OF DWELLINGS OF THE MEDIEVAL CENTER OF CAHORS BEFORE THERMAL REHABILITATION Sophie Claude, Stéphane Ginestet, Gilles Escadeillas, Marion Bonhomme
Chair ID			10h00m-10h20m	168	CONCEPTUAL AND PERCEPTUAL STATUS OF THE MOSQUES IN TURKEY Onur Sürücü, Hacı Abdullah Erdoğan, Ebru Erdoğan
09h00m-09h20m	349	SUBURBAN RESIDENTIAL INFILL REDEVELOPMENT AND SHIFTING DEMOGRAPHICS IN THE U.S. HOUSING MARKET Suzanne Lanyi Charles			
09h20m-09h40m	367	THE IMPLICIT VALUE OF TREE COVER IN THE U.S.: A META-ANALYSIS OF HEDONIC PROPERTY VALUE STUDIES Shyamani D. Sirwardena, Kevin J. Boyle, Thomas P. Holmes, Eric Wiseman			
09h40m-10h00m	371	TRANS-ATLANTIC TRANSFORMATIONS: CHALLENGES OF TRANSLATING SUCCESSFUL HIGH-PERFORMANCE BUILDING TECHNOLOGIES ACROSS CONTINENTS Georg Reichard, Marvin Queke, Robert Burgaß, Stefan Schäfer			