

EXHIBITION CATALOGUE

INTERNATIONAL ITINERANT EXHIBITION "RESEARCH IN BUILDING ENGINEERING EXCO'25"

INTERNATIONAL ITINERANT EXHIBITION EXCO 2025
ETS DE INGENIERÍA DE EDIFICACIÓN
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
Camino de Vera S/N, 46022 Valencia – Spain

Location:

ISTANBUL (Turkey)

MIMAR SINAN GÜZEL SANATLAR UNIVERSITY

From 22nd to 30th December, 2025

Cumhuriyet Mah.
Silahsör Cad. No:89 Bomonti - İstanbul

Curators of Exhibition:

Dr. E. Sibel Onat HATTAP (Local Curator)

Dr. José Ramón ALBIOL IBÁÑEZ (International Curator)

Exhibition

XXXIX INTERNATIONAL SHOWROOM OF CONSTRUCTION TECHNOLOGIES - EXCO 2025 ©

INTERNATIONAL ITINERANT EXHIBITION "Research in Building Engineering - EXCO'25"

INDEX

CURATORS	1
PROLOGUE	3
INTERNATIONAL SCIENTIFIC COMMITTEE	7
INTERNATIONAL ORGANIZATION COMMITTEE	10
CHAPTER INDEX – Research Communications	13

PROLOGUE ISTANBUL

ersitemiz, sürdürülebilirlik dersi kapsamında 2019 yılından itibaren Exco'ya katılım sağlamıştır. Bu iş birliği sayesinde Exco ile uluslararası düzeyde ortak çalışmalar yürütme imkânı doğmuştur. Exco'nun gezici sergisi, İstanbul'da üniversitemizde gerçekleştirilmiş; akademik camia ve öğrenciler için yapı, inşaat ve mimarlık alanlarında yol gösterici nitelikte olmuştur.

Söz konusu sergi, Jose Ramon Albial Ibanez ve Prof. Dr. E. Sibel Hattap tarafından oluşturulan çerçevede; akademi, özel mühendislik, uzay teknolojisi ve şehir planlaması alanlarında yenilikçi malzemeler, üretim teknikleri ve güncel araştırmalar hakkında kapsamlı bilgiler sunmuştur.

Exco ile birlikte, geleneksel malzeme anlayışı ile ileri teknoloji kullanımı bir araya getirilmiş; bu sinerji sayesinde mimarlık ve inşaat sektörünün geleceğine yönelik yeni perspektifler ve umutlar ortaya konmuştur.

Mimar Sinan Güzel Sanatlar Üniversitesi, Jose Ramon Albial Ibanez tarafından koordine edilen bu önemli girişimin bir parçası olmaktan memnuniyet duymaktadır.

Dr. Sibel HATTAP

PROLOGUE ISTANBUL

Our university has been participating in EXCO since 2019 through its sustainability course. This collaboration has created opportunities for international joint projects with EXCO. The EXCO traveling exhibition was hosted at our university in Istanbul, serving as a guiding platform for the academic community and students in the fields of architecture, construction, and the built environment.

Within the framework established by Jose Ramon Albial Ibanez and Prof. Dr. E. Sibel Hattap, the exhibition provided comprehensive insights into innovative materials, production techniques, and current research across academia, specialized engineering, space technologies, and urban planning.

Through EXCO, the integration of traditional materials with advanced technologies has been emphasized, fostering new perspectives and hopes for the future of the architecture and construction sectors.

Mimar Sinan Fine Arts University is pleased to be part of this significant initiative coordinated by Jose Ramon Albial Ibanez

Dr. Sibel HATTAP

Mimar Sinan Fine Arts University

Fındıklı Campus



FOREWORD DIRECTOR EXCO'25

The Faculty of Building Engineering of the UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, organized on February 24th to 28th, 2025, "The XXXIX Construction Technology Exhibition" EXCO'25 and the International Itinerant Exhibition "Research in Building Engineering" along year, at CEVISAMA - International Fair of Valencia - SPAIN.

Conferences are scheduled in UNIVERSITAT POLITÈCNICA DE VALÈNCIA - SPAIN, the speakers are national and international of recognized prestige from Europe, Asia and America. These conferences are aimed at professionals and students of the UPV to broaden their knowledge and experiences.

EXCO'25 promotes the entrepreneurship of the young UPV generations, participation in conferences.

The International Itinerant Research Exhibition EXCO'25 has the collaboration of 63 Universities from America, Europe, Africa, Asia and Oceania. Promoting collaboration between institutions and professors at the international level.

It fosters interdisciplinary collaboration of the professor staff within the UPV with 63 International Universities; It has the participation of 9 departments and 8 research institutes of the UPV in EXCO'25.

The participating entities are:

1. Universitat Politècnica de València, España.
2. Politecnico di Milano, Italia.
3. Mimar Sinan Fines Arts University, Istanbul, Turkey.
4. Nottingham Business School, England.
5. Vilnius Gediminas Technical University, Vilnius, Lithuania.
6. Universidad de Costa Rica
7. Università degli Studi di Basilicata, Matera, Italia.
8. Universidad Tecnológica de La Habana José Antonio Echeverría, Cuba.
9. Università degli Studi Firenze, Italia
10. Università di Pavia, Italia.
11. Odessa State Academy of Civil Engineering & Architecture, Odessa, Ukraine
12. Università di Salerno, Italia.
13. Silesian University of Technology, Politechnika Śląska, Gliwice, Poland.
14. University of British Columbia, Vancouver, Canada.
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16. Florida A&M University, Florida, USA.
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23. Politecnico di Bari, Italia.
24. Università degli Studi di Roma "Tor Vergata", Italia.
25. Hanze University of Applied Sciences, Groningen. Nederland.
26. Jade Hochschule Wilhelmshaven/Oldenburg, Germany.
27. New York University, Tandon School of Engineering. USA.
28. McGill University, Canada
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38. University North, Varaždin, Croacia
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40. Kharkiv National University of Civil Engineering and Architecture, Ukraine.
41. Universitat de València, Spain.
42. Perm National Research Polytechnic University, Perm, Russia
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44. National University of Singapore.
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58. University of Guanajuato, México.
59. University of La Salle Bajío, México
60. Universidad Jesuita de Guadalajara, ITESO, México

61. Tecnológico de Monterrey. México.
62. MIT Massachusetts Institute of Technology. USA.
63. Gdańsk University of Technology, Poland.

Thank you all for making EXCO possible.

All the best for EXCO'26!

Best Regards

Dr. José R. Albiol-Ibáñez

Vice Dean Digital Transformation, Business Cathedra &

Entrepreneurship Director EXCO'25

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Universidad Tecnológica de La Habana
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ABRAMOWICZ, Malgorzata

West Pomeranian University of Technology

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CANO ESPINOSA, TaniaTecnológico de Monterrey
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Portland State University

CHAPTER 1: ECONOMY

1.1-BUILDING MANAGEMENT SYSTEMS (BMS), A FURTHER ADVANCE IN BUILDINGS EFFICIENCY.

J. Fuentes-del-Burgo / E. Navarro-Astor

1.2-SUSTAINABLE COMMUNITY DEVELOPMENT: ANALYZING THE IMPACT OF AI AND REVIT ON GREEN MATERIALS CONSTRUCTION.

Fabiola Colmenero Fonseca / Alejandro Guzmán Ramírez
/ Andrés Salas Montoya / Javier Cárcel Carrasco / Rut
Benavente Martínez

1.3-LAST PLANNER SYSTEM IMPLEMENTATION IN A CONSTRUCTION COMPANY IN KAZAKHSTAN: A SWOT ANALYSIS.

D. Sadvokassova / N. Valverde-Gascueña / J. Fuentes-del-
Burgo / E. Navarro-Astor

1.4-RELATIONSHIP BETWEEN MAINTENANCE ENGINEERING AND KNOWLEDGE MANAGEMENT.

Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Ramiro
Rodríguez Pérez / José Ramón Albiol Ibañez

1.5-MAINTENANCE KNOWLEDGE MANAGEMENT MODEL BASED ON RELIABILITY, MAINTAINABILITY AND ENERGY EFFICIENCY.

Javier Cárcel-Carrasco / Andrés Salas Montoya / Adolfo
Preciado Quiroz / Alejandro Guzmán Ramírez

1.6-OPERATIONAL RELIABILITY, MAINTENANCE AND ENERGY EFFICIENCY, RELATIONSHIPS AND IMPROVEMENT WITH THE USE OF KM TECHNIQUES.

Javier Cárcel-Carrasco / Fidel Salas Vicente / José Ramón
Albiol Ibañez / José Antonio Cárcel Carrasco

1.7-CUSTOMER PROFILE OF THE REAL ESTATE AGENT AS THE INDUSTRY GOES DIGITAL. p.41

Juan Carlos Asensio-Soto / Elena Navarro-Astor

1.8-SYSTEMATIC LITERATURE REVIEW USING ARTIFICIAL INTELLIGENCE: REAL ESTATE MANAGEMENT WITH AI.

Maita Morales-Prieto / Alicia Llorca-Ponce / Gregorio Rius-
Sorolla

1.9-AFFORDABILITY AND SUSTAINABILITY OF SOCIAL HOUSING IN EUROPE.

María Oliver-Sanz / Alicia Llorca-Ponce

1.10-ENERGY OPTIMIZATION OF BUILDINGS THROUGH RELIABLE MODELS. RESOURCE ECONOMIZATION.

A. Esteller Agustí / A. Martínez-Ibernón / C. Aparicio-
Fernández / R. Royo Pastor

1.11- VALENCIA NEW MULTI STOREY RESIDENTIAL BUILDING DEMAND ANALYSIS.

Fernando Cos-Gayón López / Ángel Martín Furonos / Igor
Fernández Plazaola / Kaliane Bauzá Reynaldo

1.12-OFFER ANALYSIS OF NEW CONSTRUCTION SINGLE- FAMILY HOUSES IN THE CITY OF VALENCIA, THE METROPOLITAN AREA, SELECTED MUNICIPALITIES OF THE CAMP DE TURIA AND THE MUNICIPALITY OF SAGUNTO.

Fernando Cos-Gayón López / Ángel Martín Furonos / Igor
Fernández Plazaola / Kaliane Bauzá Reynaldo

CHAPTER 2: SUSTAINABILITY

2.1- COASTAL URBAN ECOSYSTEMS SUSTAINABLE INFRASTRUCTURE THROUGH INTERDUNARY LAGOONS AND THEIR IMPACT ON SOCIAL WELL-BEING.

Fabiola Colmenero Fonseca / Maria del Carmen Ixtepan
Turrent / Javier Cárcel Carrasco / Juan Francisco Palomino
Bernal / Ramiro Rodríguez Perez

2.2-SOLAR CELL AS A BRIDGE BETWEEN SUSTAINABLE DEVELOPMENT AND ENERGY JUSTICE: INNOVATION FOR COMMUNITIES WITH HIGH SOLAR RADIATION.

Bruno Guadarrama Rincón / Fabiola Colmenero Fonseca /
Lauren Yolanda Gómez Zamorano / Amparo Borrell

2.3-THE FUTURE OF WATER TREATMENT: INNOVATIVE ADVANCES IN CERAMIC MEMBRANE TECHNOLOGY.

Fabiola Colmenero Fonseca / Bruno Guadarrama Rincón
/ Amparo Borrell / Rut Benavente Martínez / María Dolores
Salvador Moya

2.4-ENERGY DIAGNOSIS OF A HISTORIC EDUCATIONAL BUILDING.

María Eugenia Torner Feltre / Mar Cañada Soriano /
Carolina Aparicio Fernández / José Luis Vivancos Bono

2.5-APPLIED TECHNOLOGIES CONSTRUCTION MATERIALS FOR HOUSES: A SOLUTION TO ENERGY EFFICIENCY.

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2.6-RESOURCE MAPPING AND SMART GEOLOCATION: HARVEST MAP TECHNOLOGIES FOR SUSTAINABILITY, ESG GOVERNANCE AND CIRCULAR ECONOMY.

Ramiro Rodríguez Pérez / Javier Cárcel Carrasco / Fabiola
Colmenero Fonseca / Juana Mercedes Perlaza Rodriguez /
Kevin A. Echeverry Bucurú

2.7-EVALUATION OF THE INTERACTION BETWEEN DAYLIGHT AND OUTDOOR VIEW IN UNIVERSITY BUILDINGS: A CASE STUDY.

Giacomo Caccia / Matteo Cavaglià / Alberto Speroni / Luis Palmero Iglesias / Tiziana Poli / Andrea Giovanni Mainini

2.8-THE ACOUSTICS OF THE SYDNEY OPERA HOUSE.
Quiteria Angulo-Ibáñez / Aitana Puig-Rocher**2.9-PERCEPTION OF PUBLIC SPACE THROUGH OUTDOOR ADVERTISING. THE CASE OF MADRID.**
Quiteria Angulo-Ibáñez / Miriam Hernández-García**2.10-REGULATORY DEVELOPMENTS ON THE ENERGY EFFICIENCY OF BUILDINGS.**
Quiteria Angulo-Ibáñez / Mercedes Almenar-Muñoz**2.11-RENEWABLE ENERGY TO DIFFERENT ACCESSIBILITY CONDITIONS, THROUGH THE WEATHER CONDITIONS.**
Javier Cárcel-Carrasco / Fabiola Colmenero Fonseca / Kevin Echeverry / Juan Francisco Palomino**2.12-THERMAL MONITORING AND HEATWAVE INCIDENCE OF TEMPORAL DECARBONIZATION MEASURES AND NATURE BASED SOLUTIONS IN EL GRAO NEIGHBORHOOD, CASTELLON. DIVAIRCITY PROJECT.**
Amparo León Vinet / Elisa Peñalvo López / Vicente León Martínez / Iván Valencia Salazar**2.13-GREEN ROOF ENERGY IMPACT ANALYSIS ON A CLASSROOM BUILDING AT THE TECHNOLOGICAL INSTITUTE OF BOCA DEL RIO.**
José-Juan Huesca-Lopez / Iván Valencia-Salazar / Elisa Peñalvo-López / Juan-David Garay-Marin / Fabiola Lango-Reynoso**2.14-RESCUING EQUITY: A COMPREHENSIVE APPROACH TO ASSESSING SOCIAL SUSTAINABILITY IN URBAN ENVIRONMENTS.**
María Oliver-Sanz / Alicia Llorca-Ponce**2.15-EVALUATION OF ENERGY EFFICIENCY PROPOSALS IN BUILDING M OF THE TECNOLÓGICO NACIONAL DE MÉXICO BOCA DEL RÍO CAMPUS, IN BOCA DEL RÍO, VERACRUZ.**
Ignacio Z. Carmona-Uscanga / Iván Valencia-Salazar / E. Peñalvo-López / J. David Garay-Marin / Fabiola Lango-Reynoso**2.16-IMPACT OF ARCHITECTURAL DESIGN ON THE WELLBEING OF INHABITANTS: A STUDY OF CORRELATIONS IN KEY HOUSING ELEMENTS.**
María Luisa Nolé / Robi Barranco / María Pérez / J. Luis Higuera-Trujillo / Carmen Llinares**2.17-CORRELATION BETWEEN LEED CERTIFICATION AND LOW-CO2E BUILDINGS: TOWARDS A NEAR ZERO CARBON (NZC) DESIGN.**
Ida Severino / Giacomo Di Ruocco**2.18-CARBON NEUTRAL ARCHITECTURE: LCA METHOD "FROM THE CRADLE TO THE CRADLE" FOR THE "ZERO EMISSIONS" DESIGN OF TIMBER BUILDINGS.**
Ludovica Amorelli / Giacomo Di Ruocco**2.19- BREATHE BRICKS. CO2 ABSORBING BRICKS.**
Palmero Sánchez P. / Aurora Martínez Corral A. / Molines Cano J. / Hidalgo Mora J. / Romero Miquel J.**2.20-HIGH TECHNOLOGY TO INTERVENE ON THE SUN. SOLAR CONTROL GLASS.**
Palmero Sánchez P. / García Izquierdo, A.**2.21-LIGHT AS PRINCIPAL CONCEPT IN BENEDICTINE MONASTERY CHURCH. MODERN ARCHITECTURE IN CHILE.**
Suzanne Segeur / Luis Palmero / Graziella Bernardo / Natalia Caicedo**2.22-THE REVALUATION OF THE CONTEMPORARY ART IN THE LANDSCAPE THAT HOSTS THEM: THE FIUMARA D'ARTE CASE IN THE NEBRODI NATURAL PARK.**
Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias**2.23-GREEN FACADES AS A RESOURCE FOR ENERGY SAVING AND EFFICIENCY.**
Luis Manuel Palmero Iglesias / María Isabel Giner García**2.24-SUSTAINABLE AND DIGITAL TRANSFORMATION OF OFFICE BUILDINGS: FIELDS OF ACTION IN EXISTING AND NEW BUILDINGS.**
Anja Henrike Kleinke**2.25-THE DISUSED PRECIOUS STONE ELEMENTS ARE NOT CDWASTE. A DIGITAL MANAGEMENT CHAIN TO SAVE THEM NOTTAL MANAGEMENT CHAIN TO SAVE THEM.**
Raffaella Lione / Ornella Fiandaca / Fabio Minutoli / Alessandra Cernaro / Luis Manuel Palmero Iglesias

CHAPTER 3: NEURAL ENGINEERING

3.1-GAMIFIED ARCHITECTURAL DESIGN: ADVANCING EDUCATION WITH EXTENDED REALITY AND AI INSIGHTS.
Juana Mercedes Perlaza Rodríguez / Fabiola Colmenero Fonseca / Ángela María Díaz-Márquez**3.2-EVALUATION OF PHYSIOLOGICAL RESPONSES IN REAL AND SIMULATED HOUSING ENVIRONMENTS.**
M. Pérez-Martínez / M.L. Nolé / R. Barranco-Merino / J.L. Higuera-Trujillo / C. Llinares**3.3-NEUROARCHITECTURE: DESIGN GUIDED BY PHYSIOLOGICAL SIGNAL DATA.**
M. Pérez-Martínez / J.L. Higuera-Trujillo / C. Llinares**3.4-ILLUMINATING REALITIES: EXPLORING THE EFFECT OF LIGHTING IN HOUSING IN REAL AND VIRTUAL ENVIRONMENTS.**
Nuria Castilla / Juan-Luis Higuera-Trujillo / Carmen Llinares

**3.5-EXPLORING PATTERNS IN PRESENCE QUESTIONNAIRES:
A COMPARATIVE STUDY.**

Robi Barranco-Merino / Juan Luis Higuera-Trujillo / Carmen Linares Millán

**3.6-FOUNDATIONS AND FACTORS IN PRESENCE
QUESTIONNAIRES FOR VIRTUAL ENVIRONMENTS.**

Robi Barranco-Merino / María Luisa Nolé Fajardo / María Pérez Martínez / Juan Luis Higuera-Trujillo / Carmen Linares Millán

**3.7-MULTIDIMENSIONAL APPROACH OF THE RELATIONSHIP
BETWEEN PSYCHOPHYSIOLOGICAL, ECONOMIC, AND
HEALTH DIMENSIONS IN BUILDING MATERIAL SELECTION.**

C. Linares / M. Bravo

**4.8-THE ENHANCEMENT OF THE SITE AND THE HERMITAGE
OF PINTARRAFES CARLET.**

Pablo Ariel Escudero / Luis Cortés Meseguer / Jorge García Valdecabres / Concepción López González

**4.9-TEMPLATE ARCHITECTURE AND GAUGED BRICKWORK
IN THE DOME OF ESCUELAS PÍAS OF VALENCIA.**

Luis Cortés Meseguer / Jorge Luis García Valdecabres / Concepción López González / Yrma Daniela Villalba Linares

**4.10-GRAPHICAL EVOLUTION AND SURVEYINGS OF
VALENCIA'S CATHEDRAL.**

Luis Cortés Meseguer / Jorge García Valdecabres / Concepción López González / Pablo Ariel Escudero

**4.11-REINTERPRETING THE HERITAGE OF THE VALENCIAN
MODERN MOVEMENT: CREATION OF A BIM DATABASE FOR
THE BUILDING AT GRAN VÍA MARQUÉS DEL TURIA 29.**

Pablo A. Escudero / Jorge L. García Valdecabres / M. C. López González / Luis Cortés Meseguer

**4.12-MATERIAL APPROXIMATION OF THE EAST SIDE OF THE
MAIN CLOISTER, FORMER CONVENT OF SANTO DOMINGO
(VALENCIA, SPAIN).**

S. Kröner / E. Arias-Valera / L. Osete Cortina / X. Mas-Barberà

**4.13-FORMAL AND COMPOSITIONAL ASPECTS OF THE
GOTHIC TRACERY OF THE MAIN CLOISTER IN THE FORMER
CONVENT OF SANTO DOMINGO OF VALENCIA.**

E. Arias-Valera1 S. Kröner / L. Osete Cortina / X. Mas-Barberà

**4.14-HERITAGE AND PATHOLOGICAL ANALYSIS OF THE
ANTONIO BALLESTER GALLERY.**

Luis Cortés Meseguer / Pablo Rodríguez Navarro / María Teresa Gil Piqueras / Andrea Ruggieri

**4.15-PROJECTED WORKS IN THE CHURCH OF SAINT JOHN
THE APOSTLE AND EVANGELIST OF MASSAMAGRELL IN THE
20TH CENTURY.**

Valentina Ciaffoni / Jorge García Valdecabres / Luis Cortés Meseguer / María Concepción López González

**4.16-REHABILITATION OF THE DOME OF THE CHURCH OF
SAN JUAN APÓSTOL AND EVANGELISTA IN
MASSAMAGRELL.**

Valentina Ciaffoni / Jorge García Valdecabres / Luis Cortés Meseguer / María Concepción López González

**4.17-FEASIBILITY OF INDUSTRIALIZED FACADES IN BUILDING
REHABILITATION.**

M. Iborra-Lucas / John J. Zambrano-Alcivar

**4.18-DIGITAL RECONSTRUCTION OF THE NABATAEAN ARCH
IN PETRA WORLD HERITAGE SITE, JORDAN.**

Wang Yang / María José Viñals Blasco / Jorge García Valdecabres

**4.19-THE CONSTRUCTION SYSTEM OF RECONQUEST
CHURCHES THE CASE OF THE CHURCH OF LOS SANTOS
JUANES IN VALENCIA.**

José Miguel Molines Cano / Jaime Linares Millán / Ana Almerich Chulia / Pablo Palmero Sánchez

CHAPTER 4: HERITAGE

**4.1-PRESERVATION STRATEGIES OF THE BRITISH CEMETERY
IN MADRID A TOURIST TOUR THROUGH THE CEMETER.**

Ana Girbés Baroja / Marta Girbés Baroja / Jorge Girbés Pérez

**4.2-DESIGN AND ANNI ALBERS: GEOMETRY AND COLOUR IN
HER WORKS.**

Liqun Li / Luis Cortés Meseguer / Jorge García Valdecabres

**4.3- SUSTAINABLE FACTORS IN THE STUDY AND ANALYSIS
OF TRADITIONAL CONSTRUCTION TYPOLOGIES FOR THEIR
CONSERVATION IN THE GOLDEN TRIANGLE OF COLOMBIA.**

Echeverry Bucurú Kevin Alexander / Cárcel Carrasco Francisco Javier / Colmenero Fonseca Fabiola / Guzman Ramírez Alejandro /Salas Montoya Andrés

**4.4-ANALYSIS AND VALIDATION OF AN INDEX FOR THE
ARCHITECTURE OF THE CHURCHES OF THE FRANCISCAN
ROUTE IN JALISCO, MEXICO.**

Fabiola Colmenero Fonseca / Javier Cárcel Carrasco / Adolfo Preciado Quiroz / Andrés Salas Montoya / Ramiro Rodríguez Pérez

**4.5-INNOVATION AND SUSTAINABILITY: THE FUTURE OF
CONSTRUCTION WITH LOCAL MATERIALS AND THE
INTEGRATION OF ARTIFICIAL INTELLIGENCE.**

Fabiola Colmenero Fonseca / Javier Cárcel Carrasco / Juana Mercedes Perlaza Rodríguez / Kevin A. Echeverry Bucurú / Ramiro Rodríguez Perez

**4.6-SEISMIC VULNERABILITY ASSESSMENT OF THE
"ALQUERÍA DE LLEONART" (VALENCIA, SPAIN).**

Arianna Guardiola Vllora /Luisa Basset Salom / Isabel Álvarez de Valcárcel

**4.7-ARTIFICIAL INTELLIGENCE FOR ARCHAEOLOGICAL
GARDEN RECONSTRUCTION.**

Quiteria Angulo-Ibáñez / José David Gordo-Martínez

4.20-INNOVATIVE SUSTAINABLE ROOFING STRATEGIES FOR MITIGATING URBAN HEAT ISLANDS IN MATER.

Juana Mercedes Perlaza Rodríguez / Fabiola Colmenero Fonseca / Carmen Fattore

4.21-THE EVOLUTION OF THE TRANSFIGURATION CATHEDRAL AS A UNITY OF THE PAST, PRESENT AND FUTURE.

Yuliya Poteychuck / Nadiia Yeksarova

4.22-FACADES ANOMALIES: METHODOLOGY FOR CATALOGING. CASE OF VALENCIA.

E. Barelles-Vicente / J. Llinares-Millán

4.23-DETERIORATION OF THE ENVELOPE: DEVELOPMENT OF CARDS FOR IDENTIFICATION AND DIAGNOSIS.

E. Barelles-Vicente / J. Llinares-Millán

4.24-TABAKALERA DONOSTIA. HERITAGE APPROACHED AS RESTORATION OR TRANSGRESSION.

Palmero Sánchez P. / García Izquierdo, A.

4.25-SOCIAL HOUSING AS MODERN HERITAGE: THE CASE OF THE "ANTONIO RUEDA" GROUP.

Bernardo, G.4; Palmero Iglesias, L. / García Valldecabres, J.

4.26-LIGHT AS A NATURAL RESOURCE IN THE RELIGIOUS SPHERE. SAN PEDRO MÁRTIR DE FISAC COMPLEX, M.

Bernardo, G. / Palmero Iglesias, L. / Segeur Suzanne. / Caicero, N

4.27-PRELIMINARY STUDIES FOR THE MUSEALIZATION OF THE KASBAH OF TAOURIRT IN OUARZAZATE, MOROCCO.

Teresa Gil Piqueras / Pablo Rodríguez Navarro

4.28-CATALOGUING AND DOCUMENTATION OF BELL TOWERS WITH SPIRES IN CERAMIC WEDGE-SHAPED BRICKS IN SICILY.

Gloria Russo / Mariateresa Galizia / Michele Mangiameli / Pablo Rodríguez Navarro / Teresa Gil Piqueras

4.29-DIGITAL TECHNOLOGY FOR THE KNOWLEDGE AND VALUATION OF ARCHITECTURAL HERITAGE.

Giuseppe Angileri / Ornella Fiandaca / Marina Arena / Alessandra Cernaro / Luis Palmero Iglesias

4.30-MILITARY ARCHITECTURE IN THE VICEROYALTY OF PERU: DESIGN, CONSTRUCTION, AND CURRENT STATE OF MILITARY AND FORTIFIED MONUMENTS.

Diego Celis-Estrada / Teresa Gil-Piqueras / Pablo Rodríguez-Navarro

4.31-DEGRADATION OF THE STONE MATERIALS OF THE PILAR CHURCH IN VALENCIA (SPAIN): MAPPING AND ANALYSIS USING PHOTOGRAMMETRIC TECHNIQUES.

Giovanni Brodu / Ana Pérez Vila / Pablo Rodríguez Navarro / Teresa Gil Piqueras

4.32-LIGHT AS PRINCIPAL CONCEPT IN BENEDICTINE MONASTERY CHURCH. MODERN ARCHITECTURE IN CHILE.

Suzanne Sigœur / Luis Manuel Palmero Iglesias / Graziella Bernardo / Natalia Caicedo

4.33-LIGHT AS A NATURAL RESOURCE IN THE RELIGIOUS SPHERE. SAN PEDRO MÁRTIR DE FISAC COMPLEX, M.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Suzanne Sigœur / Natalia Caicedo

CHAPTER 5: TECHNOLOGY

5.1-DURABILITY PERFORMANCE OF CONCRETE MADE WITH DEMOLITION WASTE.

J.R. Lliso-Ferrando / L. Mata-Rodríguez / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.2-CURING CONDITIONS INFLUENCE ON THE DURABILITY OF REINFORCED CONCRETE. PART 1. CONCRETE CHARACTERISATION.

J.R. Lliso-Ferrando / A. Martínez-Ibernón / P. Monzón-Bello / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.3-CURING CONDITIONS INFLUENCE ON THE DURABILITY OF REINFORCED CONCRETE. PART 2. CORROSION MONITORING.

J.R. Lliso-Ferrando / T. Yáñez Albán / J.E. Ramón-Zamora / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.4-SURFACE-APPLIED CORROSION INHIBITOR EVALUATION ON REINFORCED CONCRETE STRUCTURES. PART 1. APPLICATION AT THE BEGINNING OF THE SERVICE LIFE.

J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.5-SURFACE-APPLIED CORROSION INHIBITOR EVALUATION ON REINFORCED CONCRETE STRUCTURES. PART 2. APPLICATION DURING THE SERVICE LIFE.

J.R. Lliso-Ferrando / V. Nzang Ondo / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.6-CORROSION IN REINFORCED CONCRETE CONSTRUCTIONS LOCATED IN VALENCIA. CASE STUDY.

Josep Ramon Lliso-Ferrando / Ana Martínez-Ibernón / I. Gasch-Molina / J. M. Gandía-Romero / Manuel Valcuende Payá / J. Soto Camino

5.7-CORROSION RISK IN REINFORCED CONCRETE STRUCTURES LOCATED IN THE MARINE ENVIRONMENT USING ELECTRICAL RESISTANCE MEASUREMENT.

J.R. Lliso-Ferrando / A. Martínez-Ibernón / R. Vengut-Tro / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.8-GRADING STUDY OF QUARRY AGGREGATES AND RECYCLED AGGREGATES FROM DEMOLITION WASTE.

J.R. Lliso-Ferrando / A. Arenós-Barrachina / A. Martínez-Ibernón / I. Gasch Molina / J.M. Gandía-Romero / M. Valcuende Payá

5.9-METHODOLOGY FOR REPAIR OF CORROSION AFFECTED REINFORCED CONCRETE STRUCTURES.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá

5.10-CORROSION PERFORMANCE OF CONCRETES MANUFACTURED WITH DIFFERENT CEMENTS.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino

5.11-PROBLEMS IN REPAIRS OF REINFORCED CONCRETE STRUCTURES AFFECTED BY CORROSION.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino

5.12-CONCRETE RESISTIVITY ANALYSIS UNDER LABORATORY CONDITIONS ON SPECIMENS OF DIFFERENT SIZES.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá

5.13-QUICK ESTIMATION OF CHLORIDE DIFFUSION COEFFICIENT FROM NON-STEADY-STATE EXPERIMENTS IN CONCRETE.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá / J. Soto Camino

5.14-SIGNIFICANCE OF MACROCELL CURRENTS IN REINFORCED CONCRETE STRUCTURES LOCATED IN THE MARINE ENVIRONMENT.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá

5.15-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 1: MORTAR USED.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá

5.16-ASSESSMENT OF THE EFFECTIVENESS OF PATCH REPAIRS IN REINFORCED CONCRETE STRUCTURES. PART 2: PASSIVATING MORTAR.

J.R. Lliso-Ferrando / I. Gasch Molina / A. Martínez-Ibernón / J.M. Gandía-Romero / M. Valcuende Payá

5.17-ENERGY DEMAND REDUCTION IN REINFORCEMENT CONCRETE STRUCTURES MONITORING SYSTEMS. 2 vs. 3 ELECTRODES.

A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá

5.18-HUMIDITY VARIATION ESTIMATION IN HARDENED CONCRETE MATRIX BY MEANS OF SENSOR SYSTEM.

A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / J.M. Gandía-Romero / M. Valcuende Payá

5.19-ESTIMATION OF OXYGEN AVAILABILITY IN CONCRETE USING A SENSOR SYSTEM.

Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / P. Monzón Bello / R. Vengut-Tro / J.M. Gandía-Romero / M. Valcuende Payá

5.20-PCA MODEL FOR HARDENED CONCRETE pH DETERMINATION. VOLTAMMETRIC SENSOR.

A. Martínez-Ibernón / I. Gasch Molina / J.R. Lliso-Ferrando / J.M. Gandía-Romero / M. Valcuende Payá

5.21-TECHNOLOGICAL RESEARCH DEVELOPMENT FOR CIRCULAR CONSTRUCTION.

Benito, F.J / Fernández, A.B. / Miñano, I.B / Parra, C.J /Rodríguez, C / Carrion, E / Mateo, J.M

5.22-PATHOLOGIES IN POLYETHYLENE WATER SUPPLY NETWORKS. DESIGN PRINCIPLES.

A.M. Romero Sedó / P. Arrué Burillo / J.F. Romero i Miquel

5.23-VARIATION IN CORROSION RATE AFTER THE APPLICATION OF CYCLIC LOADS IN REINFORCED CONCRETE.

P. Monzón-Bello / A. Martínez-Ibernón / J.R. Lliso-Ferrando / R. Vengut-Tro

5.24-STUDY OF CORROSION IN ELECTRICAL PROTECTION EARTH NETWORKS WITH CONTACT CONNECTION.

Javier Cárcel-Carrasco / Juan Manuel Sánchez-Rodríguez / Fabiola Colmenero Fonseca / María del Carmen Ixtepan

5.25-MODELING AND THERMAL STUDY IN TRNSYS OF A GREEN WALL IN A GOVERNMENTAL BUILDING IN THE MUNICIPALITY OF VERACRUZ.

V. Ortiz-García / C.A. Sosa-Villalobos /G. Domínguez-Sánchez / A. Rodríguez-Andrade / E. Peñalvo-López / I. Valencia-Salazar

5.26-DESIGN OF A COMPUTATIONAL MODEL TO OPTIMIZE THE PERFORMANCE OF DIFFERENT VENTILATED WALL SOLUTIONS: SIMULATIONS AND COMPARISONS.

Francesco Paolo R. Marino / Luis Manuel Palmero Iglesias

5.27-DESIGN OF A COMPUTATIONAL MODEL TO OPTIMIZE THE PERFORMANCE OF DIFFERENT VENTILATED WALL SOLUTIONS: ALGORITHM STRUCTURING.

Francesco Paolo R. Marino

5.28-DEVELOPMENT OF BIO-BASED MATERIALS FOR BUILDING APPLICATIONS WITH THERMO-ACOUSTIC CHARACTERISTICS.

Suzanne Segeur / Paula Nuñez /Alan Huircaman / Luis Palmero

5.29-APPLICATION OF DRONES AND 3D PHOTOGRAMMETRY FOR SURVEYING HARD-TO-REACH SITES.

Pablo Rodríguez-Navarro / Teresa Gil-Piqueras / Ana Pérez Vila / Andrea Ruggieri

5.30-BIOCONSTRUCTION AND BIOMATERIALS. MYCELIUM FUNGUS, THE BIOARCHITURE SUSTAINABLE BIOMATERIAL OF THE FUTUR.

K. Essamhi-Saidi / C. José. Parra-Costa / I. De La Paz. Miñano-Belmonte / J. M. Mateo / F.J. Benito

5.31-A LUMINESCENT PERMEABLE 3D-PRINTED CONCRETE LANDSCAPE CHAIR AND ITS CONSTRUCTION METHOD.

Ye Yinlin / Du Xu / Sun Xiaoyan / Wang Hailong

5.32-COCONUT FIBRE IN MORTAR MATRIX.

Gina San Andrés Zevallos / Javier Chonillo Portés / Joseph Cedeño Palacios / Melina Villacreses López

5.33.-MONITORING SYSTEMS, THE WAY TO SUSTAINABLE DEVELOPMENT. A FIRST REFLECTION.

Ana Martínez-Ibernón / Isabel Gasch Molina / Josep Ramon Lliso-Ferrando / Pablo Monzón Bello / José Manuel Gandía-Romero / Manuel Valcuende Payá

5.34-ESTIMATION OF ELECTRICAL RESISTIVITY USING SENSOR SYSTEMS IN REINFORCED CONCRETE STRUCTURES.

Ana Martínez-Ibernón / Isabel Gasch Molina / Josep Ramon Lliso-Ferrando / Rocío Expósito Hernandez / José Manuel Gandía-Romero / Manuel Valcuende Payá

CHAPTER 6: TOWN PLANNING

6.1-GET OUT OF HERE: URBAN DESIGN AGAINST PEOPLE.

Arianna Guardiola Vllora / Elena Navarro Astor

6.2-EFFICIENCY IN PUMPING PRESSURE GROUPS OF URBAN WATER SUPPLY NETWORKS.

P. Arrué Burillo / A.M. Romero Sedó / J.F. Romero i Miquel

6.3-STANDARDS IN THE DESIGN OF RAILWAY STATION SPACES.

Juan B. Font Torres / Jorge L. García Valdecabres, / Luis Cortés Meseguer

6.4-AIR AS TOOL OF ARCHITECTURALFORMATION. FEATURES OF SUPPORT-FREE AEROSTATIC COATING.

Nadiia Yeksarova / Volodymyr Yeksarov

6.5-TURIA RIVER VIRTUAL TOUR: INTEGRATION OF SPHERICAL PANORAMAS IN CULTURAL LANDSCAPE HERITAGE.

Mónica Val Fiel / Marina Puyuelo Cazorla / Lola Merino Sanjuan

6.6-ANALYSIS OF PATHOLOGIES IN BUILDINGS AND RISING WATER TABLE IN BÉTERA (VALENCIA). PROPOSAL FOR A PIEZOMETRIC PROTOCOL FOR PUBLIC WARNING.

Javier Rodrigo Ilarri / Aurora Martínez-Corral / Claudia-Patricia Romero-Hernández / Lucía Belenguer Espinosa / M^a Elena Rodrigo-Clavero

6.7-THE TURIA GARDEN: ORGANIZATION AND CONSTRUCTION OF SPACES IN A LINEAR PARK.

Lola Merino Sanjuán / Mónica Val Fiel / Marina Puyuelo Cazorla

6.8-URBAN EVOLUTION OF THE OLD JEWISH QUARTER OF VALENCIA.

Concepción López González / Pablo Ariel Escudero / Luis Cortés Meseguer / Jorge García Valdecabres

6.9-OPEN SPACE AND URBAN SUSTAINABILITY: THE CASE OF THE CITY OF VALENCIA 'NEW CHALLENGES AND OPPORTUNITIES'.

M^a Emilia Casar Furió / M^a Jesús Romero Aloy

6.10-RESILIENT ARCHITECTURE: PROTECTING BUILDINGS AGAINST FLOODS. SPECIAL REFERENCE TO THE EFFECTS PRODUCED BY THE DANA OF OCTOBER 2024.

M^a Jesús Romero Aloy / M^a Emilia Casar Furió / Ángel Trinidad Tornel

6.11-THE IMPORTANCE OF URBAN AND TERRITORIAL PLANNING CONCERNING FLOOD RISK MANAGEMENT REFLECTIONS AFTER THE DANA IN VALENCIA.

Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.

6.12-THE NEED FOR PREVENTIVE ACTIONS IN BUILDING: REFLECTIONS AFTER THE DANA IN VALENCIA: REFLECTIONS AFTER THE DANA IN VALENCIA.

Martínez Beltrán, E. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterrí, L.

6.13-RETHINKING EDUCATIONAL SPACES AFTER A NATURAL DISASTER, THE ISOLATED HIGH-ALTITUDE DEPRESSION.

Rodrigo Catalán, P. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Roldán, E. / Palmero Iglesias, L. / Tordera Llisterrí, L.

6.14-THE GENESIS OF THE TURIA GARDEN I. RICARDO BOFILL.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri

6.15-THE GENESIS OF THE TURIA GARDEN II. RICARDO BOFILL.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri

6.16-THE CITY OF ARTS AND SCIENCES I. SANTIAGO CALATRAVA.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri

6.17-CITY OF ARTS AND SCIENCES II. SANTIAGO CALATRAVA.

Graziella Bernardo / Luis Manuel Palmero Iglesias / Giuseppe Angileri

6.18-GIS ANALYSIS OF URBAN DEVELOPMENT: VALENCIA FROM THE TURIA RIVER TO THE TURIA GARDEN.

Giuseppe Angileri / Marina Arena / Luis Palmero Iglesias

6.19-THE EVOLUTION OF TECHNICAL AND URBAN PLANNING REGULATIONS THAT HAVE ALLOWED THE PHENOMENON OF VERTICAL GROWTH IN THE CITY OF MESSINA.

Graziano Tomasell

CHAPTER 7: *HUMAN RESOURCES*

7.1-SUSTAINABLE BUILDING OF THE FUTURE: IMPACT OF COLD SINTERING ON MATERIAL DESIGN IN IBERO-AMERICAN UNIVERSITIES.

Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente Martínez / Andrés Salas Montoya / Ramiro Rodríguez Pérez

7.2-ACADEMIC TRANSFORMATION IN THE UNIVERSITIES OF THE FUTURE: SOLID-STATE ELECTROLYTES AND COLD3E IN MATERIALS CHEMISTRY.

Fabiola Colmenero Fonseca / Amparo Borrell / Rut Benavente Martín / Alejandro Guzmán Ramírez / Laurent Yolanda Gómez Zamorano

7.3-PRIORITIES IN HOME BUYING: THE IMPACT OF ACTIVE BUYERS' INVOLVEMENT ON THE PERCEPTION AND EVALUATION OF HOMES.

María Luisa Nolé / Carla de Juan / Antoni Montañana / Carmen Llinares

7.4-INTEGRATION OUTDOOR SHELTERS IN THE CITY FOR HOMELESS PEOPLE. BUILDING HUMAN PROTECTION, COEXISTENCE AND LANDSCAPE.

Marina Puyuelo Cazorra / Lola Merino Sanjuan / Mónica Val Fiel

7.5-ENHANCEMENT OF LOCAL SUPPLY CHAINS FOR SUSTAINABLE DEVELOPMENT: WATAMU, KENYA.

Stefania De Gregorio

7.6-TRAUMA-INFORMED ARCHITECTURAL DESIGN POST-CATASTROPHE: REFLECTIONS AFTER THE DANA IN VALENCIA.

De-Juan-Ripoll, C. / Calabuig Montesinos, V. / Martínez Beltrán, E. / Palmero Iglesias, L. / Rodrigo Catalán, P. / Tordera Llisterra, L.

7.7-DANA OCTOBER 2024. TRIBUTE TO COLLECTIVE RESILIENCE AND SOLIDARITY IN THE FACE OF POLITICAL INCOMPETENCE.

Palmero Iglesias, L. / Calabuig Montesinos, V. / De-Juan-Ripoll, C. / Martínez Beltrán, E. / Rodrigo Catalán, P. / Tordera Llisterra, L.

7.8-THE AUTHOR'S SOCIAL HOUSING FROM THE STUDY OF THE ORIGINAL DESIGN TO THE ENERGY REQUALIFICATION.

Giuseppe Angileri / Graziella Bernardo / Giuseppina Currò / Giovanni Francesco Russo / Luis Palmero Iglesias