

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:

SHENZHEN UNIVERSITY

School of Architecture and Urban Planning

From 15th October to 21st December 2025

3688 Nanhai Blvd, Nan Shan Qu, ShenZhen Shi, Guang Dong Sheng,
China, 518060

Curators of Exhibition:

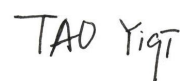
Dr. Tao Yiqi (Local Curator)

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"



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TAO Yiqi

序幕 深圳

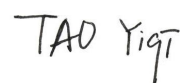
深圳大学建筑与城市规划学院于2025年参加了由Exco主办的建筑工程展览EXCO25。这场展览深受建筑学、城市规划、景观设计领域的学术界人士和师生的喜爱。该展览由何塞·拉蒙·阿尔比奥尔·伊瓦涅斯教授和陶伊奇副教授共同策划，包含建筑遗产保护、环境、工程、技术等领域的多项主题。通过本次Exco展览，促进了中西方在建筑和建造行业的交流，传递了可持续设计的理念。深圳大学建筑与城市规划学院非常鼓励和倡导此类学术展览，并对何塞·拉蒙·阿尔比奥尔·伊瓦涅斯教授的组织表示感谢，期待双方在未来有更多交流。

陶伊奇 博士，副教授
深圳大学建筑与城市规划学院

PROLOGUE SHENZHEN

The School of Architecture and Urban Planning of Shenzhen University participated in the EXCO25 exhibition on architecture and engineering, which was hosted by Exco in 2025. This exhibition was highly favored by academic professionals and students in the fields of architecture, urban planning, and landscape design. It was jointly curated by Prof. Dr. Jose Ramon Albiol Ibañez. and Assoc. Dr. Tao Yiqi, covering multiple themes such as architectural conservation, environment protection, engineering, and technology. Through this Exco exhibition, exchanges between China and the West in the architecture and construction industries were promoted, and the concept of sustainable design was conveyed. The School of Architecture and Urban Planning of Shenzhen University strongly encourages and advocates such academic exhibitions and expresses gratitude to Prof. Dr. Jose Ramon Albiol Ibañez for his organization. It looks forward to more exchanges in the future.

Dr. TAO Yiqi
School of Architecture and Urban Planning
Shenzhen University



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.

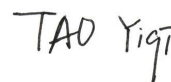
EXCO'25 promotes the entrepreneurship of the young UPV generations, participation in conferences.

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.

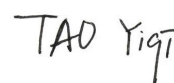
It fosters interdisciplinary collaboration of the professor staff within the UPV with 63 International Universities; It has the participation of 9 departments and 8 research institutes of the UPV in EXCO'25.

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.
15. Universidad de Alcalá de Henares, Madrid, España.
16. Florida A&M University, Florida, USA.
17. Universidad Mayor de San Andrés, La Paz, Bolivia.
18. Universidad de la República (UdelaR) de Uruguay.
19. Universidad John F. Kennedy, Argentina.
20. Universidad de Castilla-La Mancha, España.



21. Universidad de Granada, España.
22. Università degli Studi della Campania "Luigi Vanvitelli", Napoli.
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
29. Nanyang Technological University, Singapore.
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35. Universitat Jaume I, Castellón, España.
36. University of Applied Sciences and Arts of Southern Switzerland
37. Institut für Bau- und Infrastrukturmanagement /ETH Zürich
38. University North, Varaždin, Croacia
39. South Ukrainian National Pedagogical University, Odessa, Ukraine.
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.
45. TU Delft, The Netherlands.
46. Politecnico di Torino, Italy.
47. Wuhan University, Wuhan, China.
48. University of Oregon, USA.
49. City-University of Hong Kong.
50. Shenzhen University School of Architecture, Shenzhen, China.
51. Hokkaido University, Sapporo, Japan
52. Universidad de la Salle, Bogotá, Colombia.
53. Universidad de los Andes, Bogotá, Colombia.
54. Universidad Católica de Valencia. España.
55. Universidad UTE. Quito. Ecuador.
56. Universidad de Napoles Federico II, Napoles, Italy.
57. Telematic University Pegaso, Italy.
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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TAO Yiqi

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Alejandro LÓPEZ LLANUSA

Universidad Tecnológica de La Habana
(CUJAE)

Hugo R. WAINSHOTK RIVAS

Universidad Tecnológica de La Habana
(CUJAE)

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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

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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.

Juan Francisco Palomino Bernal / Javier Cárcel-Carrasco /
Fabiola Colmenero Fonseca / Alejandro Guzmán Rodríguez /
Kevin Alexander Echeverry Bucurú

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

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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 Llisterrí, 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