

Provisional Programme



Cinpar 2026
XXII International Conference on Building
Pathology and Construction Repair
15th to 17th July 2026 - Lisboa, Portugal

	15 July	16 July	17 July
09:00	Opening Ceremony CINPAR 2026 Auditorium		
10:00		Keynote Session Auditorium	Keynote Session Auditorium
10:10	G15.B1.A Auditorium	Technical Session Auditorium	G17.B1.A Auditorium
10:30	G15.B1.1 Room 02.1	G16.B1.1 Room 02.1	G17.B1.1 Room 02.1
11:00	G15.B1.2 Room 02.2	G16.B1.2 Room 02.2	G17.B1.2 Room 02.2
11:30	Coffee Break		
12:00	CIB W86 Session Auditorium	G16.B2.A Auditorium	Technical Session Auditorium
12:30	G15.B2.1 Room 02.1	G16.B2.1 Room 02.1	G17.B2.1 Room 02.1
13:00	G15.B2.2 Room 02.2	G16.B2.2 Room 02.2	G17.B2.2 Room 02.2
14:00	Lunch Break		
14:30	Keynote Session Auditorium	Keynote Session Auditorium	G17.B3.A Auditorium
15:00	Technical Session Auditorium	G16.B3.A Auditorium	G17.B3.1 Room 02.1
15:10	G15.B3.1 Room 02.1	G16.B3.1 Room 02.1	G17.B3.2 Room 02.2
15:40	G15.B3.2 Room 02.2	G16.B3.2 Room 02.2	CIB Student Session DECivil Museum
16:00	Coffee Break		
16:30	G15.B4.A Auditorium	G16.B4.A Auditorium	G17.B4.A Auditorium
17:00	G15.B4.1 Room 02.1	G16.B4.1 Room 02.1	G17.B4.1 Room 02.1
17:30	G15.B4.2 Room 02.2	G16.B4.2 Room 02.2	G17.B4.2 Room 02.2
18:00			Closing Ceremony Auditorium
19:00	Welcome Reception Carmo Archaeological Museum		
20:00		Conference Banquet Museu da Cerveja	
20:30			
21:00			

Legend for General Sessions:

Inspection and Defects	Materials and Techniques	Natural Hazards	Infrastructure	Design Projects and Rehabilitation Works	Built Heritage	Management and Standards	Research and Recent Developments
------------------------	--------------------------	-----------------	----------------	--	----------------	--------------------------	----------------------------------

Day 1: Wednesday, 15 July

	09:00 – 10:00	Opening Ceremony CINPAR 2026	Room: Auditorium	Chair: Tiago Miguel Ferreira Esequiel Mesquita
--	---------------	-------------------------------------	-------------------------	--

Session: G15.B1.A

	Topic: Inspection and Defects		Room: Auditorium	Chair: Ricardo Almeida
	10:10 – 10:25	Characterization and Assessment of Structural Timber Elements of a Building in the Historic Centre of Viseu, Portugal	Mônica Nicolau	
	10:25 – 10:40	Systematic cataloging of information for the semantic enrichment of the HBIM model of the Almofala Church	Maria Isadora Messias	
	10:40 – 10:55	Analysis of Pathological Manifestations in a Public School in The Municipality of Juazeiro do Norte, Ceará: A Case Study	Jefferson Luiz Alves Marinho	

Session: G15.B1.1

	Topic: Materials and Techniques		Room: 02.1	Chair: Ana Mafalda Matos
	10:10 – 10:25	Durability assessment of sargassum-based compressed earth blocks under abrasion cycles	Jhade Vimieiro	
	10:25 – 10:40	Energy Efficiency and Sustainable Materials in Façade Rehabilitation: Challenges of Thermal Insulation in the Azores	Maria Paula Mendes	
	10:40 – 10:55	Development of 3D-Printed Conductive Mortar Electrodes for smart bricks	Israel Sousa	

Session: G15.B1.2

	Topic: Research and Recent Developments		Room: 02.2	Chair: Jéssica Deise Bersch
	10:10 – 10:25	Análise Química por Fluorescência de Raios X Portátil em Metal do Passado	Adolpho Guido de Araújo	
	10:25 – 10:40	Durabilidade da cor em concretos pigmentados pretos: avaliação do comportamento cromático sob envelhecimento acelerado	Vanessa Monteiro da Silva	
	10:40 – 10:55	Influence of Construction and Demolition Waste as Fine Aggregate Replacement on the Performance of Self-Compacting Mortars	Fernando Augusto Jorge	

Session: CIB W086 Thematic Session

Topic: New Trends in Building Pathology: Research, Innovation and Practice		Room: Auditorium	Chairs: Inês Flores-Colen Jorge de Brito
11:30 – 11:35	Welcome and Introduction		Jorge de Brito
11:35 – 11:50	Building Pathology and ETICS: Current Challenges and Future Perspectives		Vasco Peixoto de Freitas
11:50 – 12:05	Infrared Thermography Use in Building Pathology - Where Are We?		Ecem Edis
12:05-12:20	The Use of Drones in the Inspection of Constructions		João Lanzinha
12:20-12:35	Automated Detection of Biological Soiling on Building Facades Using Hyperspectral Cameras		Nathan Van Den Bossche
12:35-12:50	Uncertainty and Risk Analysis in Inspection and Diagnosis		Clara Pereira
12:50-13:00	Discussion and Closing Remarks		All speakers

Session: G15.B2.1

Topic: Infrastructure		Room: 02.1	Chair: Mylene Vieira
11:30 – 11:45	Infrastructure, Architecture, and Tourism Urbanization: Digital Modeling of the Impacts of the Sabiaguaba Environmental and Gastronomic Complex, Fortaleza, Ceará, Brazil		Ricardo Paiva
11:45 – 12:00	Impact of Structural Pathologies on Property Market Value		João da Costa Pantoja
12:00 – 12:15	Diagnostic analysis of differential settlement using the Berberian Method and foundation reinforcement with Mega Piles in a residential structure: A case study in Goiânia, Brazil		Marília Araújo
12:15-12:30	Classes de Agressividade do Concreto no Brasil: Influência Regional, Patologias e Implicações em Projeto		Stefania Zebral Silva
12:30-12:45	Pathological Manifestations in Building Structures: Evaluation of Causes, Impacts on Durability, and Intervention Costs		Bruna Sell
12:45-13:00	Avaliação de vulnerabilidade sísmica de escolas de Lisboa: da priorização à escala urbana à análise estrutural detalhada		Luís Ferreira

Session: G15.B2.2

Topic: Built Heritage		Room: 02.2	Chair: Ana Mafalda Matos
11:30 – 11:45	Point Clouds Beyond BIM: Aesthetic Composition and Montage Techniques for Immersive Room Films in Heritage Education		Carlos Eugênio Moreira de Sousa
11:45 – 12:00	Geophysical Characterization of Historic Masonry using Ground-Penetrating Radar (GPR)		Maria Isadora Gonçalves
12:00 – 12:15	Residual mechanical properties of masonry materials after exposure to high temperatures		Ema Jankovicova
12:15-12:30	Lime Mortars with Fibres and Residues for the Sustainable Rehabilitation of Wattle and Daub Walls		Ana Velosa
12:30-12:45	Incorporation of Eggshell Residues in Lime Mortars for Rehabilitation of Wattle and Daub Walls		Isabel Torres
12:45-13:00	Caracterização de Chacotas Históricas a partir de Classificação Análoga de Rochas Sedimentares Através de Microscopia por Luz Polarizada		Maurilio Amancio de Moraes

Keynote Session

Room: Auditorium		Chair: Esequiel Mesquita
14:00 – 15:00	Seismic performance of traditional rammed earth constructions: from structural assessment to strengthening	Daniel V. Oliveira

Session: Technical Session

Room: Auditorium		Chair: Fernando Pinho
15:10 – 15:30	À cerca da Taipa executada na cerca medieval interior da Fortaleza e Castelo de Juromenha	António Eliseu
15:30 – 15:50	Rising damp in ancient walls: a new approach, a complete system	Luís Pedro Simões Mateus
15:50 – 16:00	RILEM: The International Union of Laboratories and Experts in Construction Materials, Systems and Structures	Esequiel Mesquita

Session: G15.B3.1

Topic: Natural Hazards		Room: 02.1	Chair: Nuria Chiara Palazzi
15:10 – 15:25	From risk assessment to mitigation and emergency planning for multiple natural hazards in urban built environments: a mesoscale, user-dynamics-based framework		Alessia Freddo
15:25 – 15:40	Assessment of the impact of mining activities, with particular focus on mining tremors affecting masonry structures		Leszek Chomacki
15:40 – 15:55	Monitoring of Geological Risk Areas Using UAVs with High-Precision Aerial Photogrammetry Support: The Case of Sol Nascente, Section 3, Federal District, Brazil		Mafalda Pantoja

Session: G15.B3.2

Topic: Materials and Techniques		Room: 02.2	Chair: Mislav Stepinac
15:10 – 15:25	Modified masonry triplets for the shear characterisation and numerical modelling of NFRCM-strengthened masonry		Nandini Priya Thatikonda
15:25 – 15:40	Enhancing the tensile performance of natural fibers for inorganic matrix composites in masonry strengthening		Mehdi Zahedi
15:40 – 15:55	Compressive Behaviour of Masonry Columns Strengthened with PBO-FRCM Systems: Experimental and DEM Numerical Investigation		Matteo Mauro

Session: G15.B4.A

Topic: Built Heritage		Room: Auditorium	Chair: Ana Velosa
16:30 – 16:45	The Historic Site of Sobral, Brazil: The importance of its listing by IPHAN in the requalification of buildings and urban space		Eder Paulus Guerra
16:45 – 17:00	Architectural Documentation of the San Sebastian Church		Daiane Oliveira da Silva
17:00 – 17:15	Heritage Management and the Progressive Deterioration of an Earthen Troje in Mexico City		Pilar Espinoza Vázquez

Session: G15.B4.1

Topic: Design Projects and Rehabilitation Works		Room: 02.1	Chair: Giovanna Schäfer Bartels
16:30 – 16:45	A Resilience Clock for Residential Buildings: Age- and Hazard-Conditioned Fragility and Functional Loss via SFD(t) × UHS(TR)		Alvaro Hurtado
16:45 – 17:00	Effect of high levels of cement substitution on the mechanical properties of ECC as a repair material		Urs Buegger
17:00 – 17:15	Integration of an HBIM Model with Thermographic and Damage Image Analysis Based on Computer Vision		Eugênio Moreira

Session: G15.B4.2

Topic: Inspection and Defects		Room: 02.2	Chair: Isabel Torres
16:30 – 16:45	Pathology of Ceramic Tile Systems in Brazil: Investigating Moisture Expansion in BIIb Tiles through a Multi-Analytical Case Study		Renato Freua Sahade
16:45 – 17:00	Mapping Façade Soiling Patterns through Image Processing		Jéssica Deise Bersch
17:00 – 17:15	Manifestações Patológicas em empreendimento residencial: Avaliação de garantia em Fortaleza – CE		Allefy Teles Sampaio

Day 2: Thursday, 16 July

Keynote Session

	Room: Auditorium		Chair: Tiago Miguel Ferreira
	09:00 – 10:00	Automated large-scale non-destructive testing of heritage buildings for structural diagnosis	Javier Ortega

Session: Technical Session

	Room: Auditorium		Chair: Ana Velosa
	10:10 – 10:40	Solução estrutural em edifícios classificados	Rui Silva
	10:40 – 11:00	Método Investigativo para Análise de Infiltrações	Marília Araújo

Session: G16.B1.1

	Topic: Inspection and Defects		Room: 02.1	Chair: Daniel V. Oliveira
	10:10 – 10:25	Análise dos defeitos em pavimento rodoviário flexível sob diferentes condições climáticas	Francisco Lacerda de Oliveira	
	10:25 – 10:40	A 3d tomographic GPR inspection using a self-constructed cable-driven robot of the Torre de la Vela in La Alhambra (Granada, Spain)	Miguel Ángel García	
	10:40 – 10:55	Advanced Resilience Techniques for Historical and Understudied Sacral Architecture – The ARTHUR Project	Mislav Stepinac	

Session: G16.B1.2

	Topic: Natural Hazards		Room: 02.2	Chair: Pilar Baquedano-Juliá
	10:10 – 10:25	Physical Vulnerability to Floods in Historic Urban Areas: A Building-Scale Assessment Approach	Gessica Sparvoli	
	10:25 – 10:40	Watershed as a Basis for Heritage Vulnerability Assessment of Historic Urban Landscapes	Esequiel Mesquita	
	10:40 – 10:55	Seismic Vulnerability Assessment of a Heritage Unreinforced Masonry Building: Pushover Analysis	Helena Arias Lara Leite	

Session: G16.B2.A

Topic: Built Heritage		Room: Auditorium	Chair: Javier Ortega
11:30 – 11:45	Desafios na Reabilitação de Edificações: a formação acadêmica como elemento-chave para a qualidade das intervenções		Erika Menezes
11:45 – 12:00	Integração entre tradição e inovação: desafios da aplicação da madeira laminada colada em patrimônios edificados		Mônica Nicolau
12:00 – 12:15	Mapping technical façade elements under low-intensity seismicity to support risk-informed urban decision-making		Elena Cantatore
12:15-12:30	Metodologia Digital Integrada para a Conservação do Patrimônio Construído: da Reconstrução Virtual ao Fabrico Aditivo		Inês Bourgeois
12:30-12:45	Seismic assessment and strengthening of the Church of Santo Tomás de Aquino in Rondocan, Peru		Elesban Nochebuena-Mora
12:45-13:00	From Theory to Practice: Expert Views on Vulnerability of URM Buildings		Antonela Moretic

Session: G16.B2.1

Topic: Materials and Techniques		Room: 02.1	Chair: Ricardo Almeida
11:30 – 11:45	On the Seismic and Energy Retrofit of Masonry Buildings Using Inorganic Matrix Composites		Ardalan Hassan
11:45 – 12:00	Effects of Limestone Filler, Metakaolin, and Polypropylene Fibers on the Flow Properties and Buildability of Cementitious Mixtures for 3D Concrete Printing (3DCP)		Ana Mafalda Matos
12:00 – 12:15	Avaliação da substituição parcial de cimento por Pó reciclado: Influência na Resistência à Compressão de Pastas Cimentícias		Pablo Goes
12:15-12:30	Cementitious Composites with Steel Industry Residues and Interaction with Atmospheric CO ₂		Laís Costa
12:30-12:45	An Investigation on the Mechanical Response of Composite-Reinforced Mortar for Masonry Strengthening		Mehdi Zahedi
12:45-13:00	Análise Patológica de Edificação Histórica com Proposta de Reabilitação: Um estudo de caso no Estado do Ceará, Brasil		Gabriele Rodrigues

Session: G16.B2.2

Topic: Infrastructure		Room: 02.2	Chair: Iran Segundo
11:30 – 11:45	Surface distress evaluation of interlocking concrete block pavements using the Pavement Condition Index (PCI): a case study in Brazil	Francisco Lacerda de Oliveira	
11:45 – 12:00	Thermal behavior of urban pavements under the influence of tree shading: implications for pavement performance and durability	Nayara Gurjão	
12:00 – 12:15	Análise da Expansão da Infraestrutura Urbana de Brasília. Aspectos da Reabilitação de Viadutos no Trevo de Triagem Norte.	Paulo Robert	
12:15-12:30	Analysis of the influence of rainfall variability on asphalt pavement deterioration: a case study based on functional condition surveys	Francisco Lacerda de Oliveira	
12:30-12:45	Proposal for an optimal timing for maintenance and rehabilitation strategies on interlocking pavements	Francisco Lacerda De Oliveira	
12:45-13:00	Mortar with Steelmaking Slag for Repairs of Historic Buildings	Laís Costa	

Session: Ordem dos Engenheiros Thematic Session

Topic: Especialização em Reabilitação do Património Construído		Room: Museu DECivil	Chairs: Vasco Peixoto de Freitas Inês Flores-Colen Sofia Barbosa
11:30 – 12:00	Apresentação da Especialização	Session Chairs	
12:00 – 12:30	History of Construction, Engineering and Built Heritage	João Mascarenhas Mateus	
12:30 – 13:00	The Challenges of Rehabilitation in Built Heritage	Aníbal Costa	

Keynote Session

Room: Auditorium		Chair: Inês Flores-Colen
14:00 – 15:00	Reimagining Pathology Diagnosis in Built Heritage	Ana Ferreira Silva

Session: G16.B3.A

Topic: Management and Standards		Room: Auditorium	Chair: Nuria Chiara Palazzi
15:10 – 15:25	Study of strategies for the evaluation of metal structures under fire action	Alfonso Cobo Escamilla	
15:25 – 15:40	Data structuring and systemic failure analysis in built asset management: application to fire detection and suppression system maintenance	Mylene Vieira	
15:40 – 15:55	Structural Fire Risk in Historic Urban Districts: A Component-Based Analysis of Its Relationship with Multidimensional Poverty	Pilar Baquedano-Juliá	

Session: G16.B3.1

Topic: Built Heritage		Room: 02.1	Chair: Nandini Priya Thatikonda
15:10 – 15:25	Framework for assessing and mapping degradation risks in historic building facades		Ricardo Almeida
15:25 – 15:40	Large-Scale Seismic Vulnerability Assessment of Masonry Buildings: A Critical Appraisal of Index-based Methods		Letizia Mancini
15:40 – 15:55	HBIM-Driven Management of Diagnostic Information: A Proof of Concept		Mariella De Fino

Session: G16.B3.2

Topic: Research and Recent Developments		Room: 02.2	Chair: Mislav Stepinac
15:10 – 15:25	Discrete element-based particle modelling optimization for stone masonry wall's structural assessment		Maria Margarida Marques
15:25 – 15:40	Unveiling hybrid two-way out-of-plane response of existing unreinforced masonry structures through extensive shake-table testing		Dario Vecchio
15:40 – 15:55	Corrosion Assessment for prestressed steel strands based on experimental data and numerical analysis		Thamara Tofeti Lima

Session: G16.B4.A

Topic: Inspection and Defects		Room: Auditorium	Chair: Laís Costa
16:30 – 16:45	Towards an Automatic Defect Detection on Historical Surfaces Based on Hyperspectral Imaging Data: A Hierarchical Classification Framework		Maria Francesca Muccioli
16:45 – 17:00	Use of the Gut Matrix in the Analysis of Pathological Manifestations in Housing Units of the Minha Casa Minha Vida Program: A Case Study		Jefferson Luiz Alves Marinho
17:00 – 17:15	Building Pathologies in the Rehabilitation of Substandard Housing: Technical Assessment of Housing Improvement Works		Rafael Moraes

Session: G16.B4.1

Topic: Materials and Techniques		Room: 02.1	Chair: Poliana Bellei
16:30 – 16:45	Linking Fabrication Route, Microstructure, and Fire Performance in Mycelium-Based Insulation Composites		Neuza Valadas
16:45 – 17:00	Origem e interferência dos teores de cálcio de fragmentos cerâmicos do século XVIII em Pernambuco		Eudes Rocha
17:00 – 17:15	Caracterização Mecânica da Alvenaria Ordinária de Lisboa através de Ensaio com Macacos Planos		Jorge Fonseca

Session: G16.B4.2

Topic: Built Heritage		Room: 02.2	Chair: Inês Bourgeois
16:30 – 16:45	Adaptive vs. Uniform Decimation: A Quantitative Analysis of 3D Mesh Optimization for HBIM		Eugênio Moreira
16:45 – 17:00	Integration of an HBIM Digital Model with GPR Data Interpreted using Machine Learning		Maria Isadora Gonçalves
17:00 – 17:15	HBIM for modeling a cultural heritage asset using a hybrid scan-to-BIM workflow: Challenges and Insights from the Pinacoteca do Ceará		Esequiel Mesquita
17:15 – 17:30	Wattle and daub (tabique) mortars in Northern Portugal		Ana Velosa

Day 3: Friday, 17 July**Keynote Session**

Room: Auditorium		Chair: Humberto Varum
09:00 – 10:00	Safeguarding Heritage: Integrated Evaluation and Rehabilitation Strategies for Existing and Historic Structures	Rita Bento

Session: G17.B1.A

Topic: Inspection and Defects		Room: Auditorium	Chair: Maria Paula Mendes
10:10 – 10:25	Reabilitação de Sistemas de Impermeabilização em Lajes Alveolares Pré-Fabricadas de Grande Extensão, com tratamento de trincas aplicadas sob condições adversas		Juliana Alves
10:25 – 10:40	Progressive failure analysis in elevated swimming pool Waterproofing systems: a diagnostic framework for correlating executive non-conformities and watertightness loss mechanisms		Micaéle Brandão da Silva
10:40 – 10:55	Investigation of ultrasonic propagation angles for the identification of wood elastic properties		Sonagnon Jerome Afoutou

Session: G17.B1.1

Topic: Materials and Techniques		Room: 02.1	Chair: Eugênio Moreira
10:10 – 10:25	Control of fresh concrete's composition through non-intrusive microwave electrical impedance spectroscopy		Marcos Roberto Fortulan
10:25 – 10:40	Alkaline durability of AR-glass FRCM systems: tensile behaviour of bare fibres and cement-based composites under direct and accelerated conditioning		Matteo Mauro
10:40 – 10:55	Betão branco de elevado desempenho eco-eficiente com incorporação de pó de vidro para aplicações arquitetónicas		Ana Mafalda Matos

Session: G17.B1.2

Topic: Built Heritage		Room: 02.2	Chair: Mylene Vieira
10:10 – 10:25	Análise da Reconstrução da Infraestrutura Escolar do Rio Grande do Sul Decorrente dos Efeitos do Desastre Climático Ocorrido em 2024		Márcio Buzar
10:25 – 10:40	Electromechanical Self-Sensing Behavior of Lime Mortars with Carbon Nanotubes and Microfibers		Ryan Araújo
10:40 – 10:55	Porto Historical Heritage – Digital Twins and Underground Excavation Works		João Pinto

Session: Technical Session

Room: Auditorium		Chair: Inês Flores-Colen
11:30 – 11:50	Preservar o Passado e Proteger o Futuro: O rigor e qualidade no diagnóstico das construções em Portugal	Susana Fernandes & João Martins
11:50 – 12:10	Valorização de Resíduos de Membranas de Impermeabilização em Misturas Betuminosas	José Neves
12:10 – 12:30	A Inteligencia Artificial. Do Diagnóstico à Reabilitação Do diagnóstico à reabilitação	José Paulo Costa
12:10 – 12:50	Buildings Structural and Foundations Strengthening Solutions	André Henriques

Session: G17.B2.1

Topic: Inspection and Defects		Room: 02.1	Chair: Mylene Vieira
11:30 – 11:45	Impacts of Deficient Maintenance on the Integrity and Durability of Reinforced Concrete Reservoirs		Amanda Ávila de Souza
11:45 – 12:00	Análise de dados de patologias higrotérmicas: estudo estatístico de relatórios técnicos de edifícios		Mariana Nadais
12:00 – 12:15	Comportamiento Sísmico de Estructuras Prefabricadas Existentes		Estrella Torres
12:15-12:30	Analysis of pathological manifestations in the buildings of the Igreja do Céu Tourist Center in the Municipality of Viçosa do Ceará		Eder Paulus Moraes Guerra
12:30-12:45	Vision-based structural health monitoring for detection and characterization of cracks in concrete: A systematic review		Daiane Oliveira da Silva
12:45-13:00	GeoAI Resilience-Based approach for critical assets under natural hazards		Maria João Falcão Silva

Session: G17.B2.2

Topic: Built Heritage		Room: 02.2	Chair: Maria Paula Mendes
11:30 – 11:45	Underground Intervention in a Historic Building: Structural Compatibility and Heritage Preservation at the Museu Paulista		Fabiana Lopes de Oliveira
11:45 – 12:00	A Multi-Sensor Acquisition Framework for Built Heritage Documentation: Application at the Church of Nossa Senhora da Conceição de Almofala		Jose Lucas Gomes Mendes
12:00 – 12:15	Social Tourism and Modern Heritage: Digital Documentation and Conservation of the Sesc Garanhuns Holiday Camp (1956), Brazil		Ricardo Paiva
12:15-12:30	Challenges in data collection for the development of maintenance plans for historic buildings for cultural use integrated with HBIM models		Ana Cecilia Vasconcelos
12:30-12:45	Semantic Structuring of Generic HBIM Elements for Building Systems		Esequiel Mesquita
12:45-13:00	Modelagem digital do Museu da Imagem e do Som a partir de nuvem de pontos		Ana Cecília Vasconcelos

Session: G17.B3.A

Topic: Management and Standards		Room: Auditorium	Chair: Laís Costa
14:00 – 14:15	Digital documentation of cultural heritage based on high-resolution scanning		Esequiel Mesquita
14:15 – 14:30	Leveraging Data Analytics to Manage Visitor Flows in Heritage Sites		Alessandro Ceppetelli
14:30 – 14:45	Proposed Adaptation of the GUT Criticality Matrix for the Maintenance Management of Concrete Pavements in Fuel Stations		Marília Araújo

Session: G17.B3.1

Topic: Built Heritage		Room: 02.1	Chair: Javier Ortega
14:00 – 14:15	Unreinforced masonry bell & clock towers earthquake-strengthening techniques in Chile: a preliminary typological survey of four case studies		Marco Barrientos
14:15 – 14:30	Material Parameter updating Based on Operational Modal Analysis (OMA): Application to the Sciri Tower		Renan Nogueira Paulo
14:30 – 14:45	Damage mapping of a 50's building as a strategy for maintenance		Bruna Higino Vale

Session: G17.B3.2

	Topic: Infrastructure		Room: 02.2	Chair: Iran Segundo
	14:00 – 14:15	Impact of Defects on the Deflection Response of Interlocking Pavements		Francisco Lacerda de Oliveira
	14:15 – 14:30	Procedure for assessing the dynamic resistance of existing bridge structures located in seismically active mining areas		Janusz Rusek
	14:30 – 14:45	A Computational Tool Based on Artificial Neural Networks for Supporting PCI Evaluation in Interlocking Concrete Block Pavements		Francisco Lacerda de Oliveira

Session: CIB Student Session

	Room: DECivil Museum			Chairs: Jéssica Deise Bersch Giovanna Schäfer Bartels
	14:00 – 14:15	The Role of the CIB Student Chapter IST/UL: Perspectives on Research and Cooperation		Jéssica Deise Bersch
	14:15 – 14:30	Optimising resource value extraction in demolition and rehabilitation: A digital twin-transition approach - EU Horizon DISCOVER project		Isobel Andrews-McCarroll
	14:30 – 14:45	Impactos da Manutenção Baseada na Condição no Desempenho da Envolvente dos Edifícios		Giovanna Schäfer Bartels

Session:
G17.B4.A

	Topic: Built Heritage		Room: Auditorium	Chair: Pilar Baquedano-Juliá
	15:10 – 15:25	Integrating Computer Vision and Machine Learning for Detection of Damage in Historic Buildings		Mylene Vieira
	15:25 – 15:40	Argumentación en contra del uso de revoques texturados plásticos en fachadas patrimoniales. El caso del Museo Provincial de Bellas Artes de Santa Fe (Argentina)		Manuel Alfredo Mina

Session: G17.B4.1

	Topic: Natural Hazards		Room: 02.1	Chair: Esequiel Mesquita
	15:10 – 15:25	Climate Resilience Skills for Cultural Heritage Buildings: A European Educational Framework Developed through the ECOHERITAGE Project		Inês Flores-Colen
	15:25 – 15:40	The use of aerial surveying for land regularization purposes and the right to the city: the case of Dorothy Stang in the Federal District		Mafalda Pantoja

Session: G17.B4.2

	Topic: Materials and Techniques		Room: 02.2	Chair: Ricardo Paiva
	15:10 – 15:25	Enhancing Concrete Durability Using Jute Fibre-Reinforced Bio-Mortar with Microbial Assisted Self-Healing		Oluwatosin Balogun
	15:25 – 15:40	Low-Carbon Cements and Construction Durability: A Systematic Review		Juliana Gaio Somer
	16:00 – 17:00	Closing Ceremony	Room: Auditorium	Chair: Tiago Miguel Ferreira Humberto Varum