

WEDNESDAY 12 OCTOBER 2022

CONFERENCE TOUR (only full registrations, i.e. not Student/Attendant Registrations)MEETING POINT: IN FRONT OF THE **MAIN ENTRANCE OF TITANIA HOTEL** (52, PANEPISTIMIOU STREET) @10:45-11:00**WELCOME RECEPTION & REGISTRATION** (only full registrations, i.e. not Student/Attendant Registrations)MEETING POINT: ROOF TOP ROOM, **8th Floor, HELLENIC AMERICAN UNION** (22, MASSALIAS STREET) @18:30-20:30

THURSDAY 13 OCTOBER 2022

	THEATRE, 2nd Floor, Hellenic-American Union	SEMINAR ROOM, 6th Floor, Hellenic-American Union
10:00-11:30	Chair: Prof. John-Paris PANTOUVAKIS (National Technical University of Athens, Greece)	
10:00-10:20	Note of Welcome & Opening of the Conference. Prof. J.P. Pantouvakis	
10:20-10:30	Invited Speaker : Prof. Nikos Lagaros , Dean of the School of Civil Engineering, NTUA	
10:30-10:50	Keynote speaker: Leonidas Phoebus KOSKOS (Hellenic-American Union)	
10:50-11:30	Keynote Speaker: Prof David CHUA KIM HUAT (National University of Singapore)	
11:30-12:00	Coffee Break 1	
12:00-14:00	Session 1 (Modern Technology in AEC - I)	Session 2 (Project Management)
	Chair: Prof. J. Smallwood (Nelson Mandela University, South Africa)	Chair: Prof. F. Emuze (Central University of Technology, Free State, South Africa)
	77 Application and Benefit Evaluation of AIoT Image Sensing for Construction Safety Monitoring	60 Implementation of pipeline projects: Matters arising in the New Zealand construction industry
	87 The Potential of Concrete 3D Printing in Construction	91 A Case Study of Pathogens in Municipal Projects
	102 Applications of UAS Technologies for Small or Medium Contractors	107 Social media as a phenomenon in projects and the project management: A comprehensive literature review
	112 A Model Combining Computer Vision and Drone for Proactive Construction Site Safety Monitoring	12 A case study of implementing project management processes in EPC contracts
	98 Mechanical Performance of Cellular Concrete Incorporating Silica Fume and Polypropylene Fibers [VIRTUAL]	117 The effects of scope creep on project success
85 A Bibliometric Analysis for Sustainable Development and Digitalization in Construction Industry [M]	17 Factors causing cost overrun in projects: A case of Pakistan's construction industry	
14:00-15:00	Lunch 1	
15:00-17:00	Session 3 (Productivity, Performance & Safety)	Session 4 (Simulation, prediction and foresight)
	Chair: Prof. J. Rotimi (Massey University, New Zealand)	Chair: Prof. A. Xanthopoulos (Democritus University of Thrace, Greece)
	101 Hand-Arm Vibration Exposure: A Survey of Construction Workers in South Africa [M]	39 Simulation modeling and analysis of a bottled water plant
	8 Development of an automated tool for the comparative estimation of earthmoving productivity	43 Application of ARIMA Models to Solar Radiation Forecasting
	115 Skill Shortage within the UK Construction Industry, and the Impact on Quality Management	92 Pathogens and time overruns in power construction projects in South Africa
	28 Comparative evaluation of road safety in an existing road network in Greece	100 Developing Day Trading Techniques for the Thailand SET100 Index Using Artificial Neural Networks and Technical Indicators
	45 Integrating Wearable Sensing Device Applications To Improve Construction Workers' Health	46 Foresight orientation and responsible innovation in production and services: Is there a link?
99 Brief Clarity and Project Performance : Comparing Two Prediction Methods	118 Role of Tangible and Intangible Factors in Project Management: Bipolar Case Study In Marine Project	

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BUS TRANSFER & CONFERENCE DINNER (only full registrations, i.e. not Student/Attendant Registrations)
 MEETING POINT: IN FRONT OF THE **MAIN ENTRANCE OF TITANIA HOTEL** (52, PANEPISTIMIOU STREET) @ 19:15-19:30

FRIDAY 14 OCTOBER 2022

	THEATRE, 2nd Floor, Hellenic-American Union	SEMINAR ROOM, 6th Floor, Hellenic-American Union
	Chair: Dr. Antonios PANAS (National Technical University of Athens, Greece & TEKAL S.A.)	
09:30-10:00	Keynote speaker: Michail D. DAKTYLIDIS (PEDMEDE & MENTOR S.A.)	
10:00-10:05	Break	
10:10-12:10	Session 5 (Simulation, prediction and foresight)	Session 6 (Smart manufacturing and logistics)
	Chair: Prof. A. Salman (Auburn University, USA)	Chair: Prof. T. Chinda (SIIT, Thammasat University, Thailand)
	20 WELL Building: Criteria for Residential Buildings in a Developing Country	110 The Pandemic Effect On the Industry 4.0 Readiness: A Case Study in Vietnamese Industry
	75 Development of a Building Readiness Rating Index for an Outbreak/Pandemic: A Pilot Study	63 The Adoption of Smart Warehouse Technology in Thailand
	106 Drivers of Circular Economy for Sustainable Development in the Construction Industry [VIRTUAL]	38 Comparing alternative power control policies in a manufacturing line using simulation
	9 Social-psychological insights into energy-saving behaviours: An occupant survey in New Zealand	25 Internet of Things (IoT) Impacts on Facility Management of Office Buildings
	90 Flexural strengthening and repairing of reinforced concrete beams by using textile glass fabric	42 Logistics 4.0 and the competences of logistics engineers in perception of students – evidence from Poland
	47 An Analysis of Factors Influencing Building Energy Consumption: A Case Study	53 A Systems Dynamics Approach for Reduction of Container Terminal Congestions Through Application of Lean Six Sigma: A Case Study for Port of Durban
12:10-12:30	Coffee Break 2	
12:30-14:30	Session 7 (Modern Technology in AEC - II)	Session 8 (Legal, Contracts, Procurement & Education)
	Chair: Prof. Y. Xenidis (Aristotle University of Thessaloniki, Greece)	Chair: Prof. H. Rabayah (Al-Zaytoonah University, Jordan)
	44 Remote Sensing Synergies for Port Infrastructure Monitoring and Condition Assessment	26 Complaints and Rectifications During Defect Liability Period: Homebuyer Perspective
	37 Using BIM for condition-based maintenance: A case study of energy modeling for a residential building	94 Integrating Industry 4.0 Concepts in Civil Engineering Education
	36 Unmanned Aerial Vehicles: A Survey on Monitoring Advancements for Port Infrastructure Applications	57 Harnessing the multiple benefits of fragmentation of capital infrastructure projects
	29 Critical review of pertinent research on digital twins and their applications in the construction industry [VIRTUAL]	73 The assessment of general conditions of contract for addressing rework issues in construction projects
	21 Digital Twin Production in the AECO Industry: Organizational Attributes and Strategies	88 Novel framework for contract awarding process for public construction projects in Sri Lanka [M]
14:30-15:30	Lunch 2	
15:30-16:30	SPECIAL SESSION: Managing Risks in Ensuring Capacity and Capability for Construction Sector: A New Zealand case	Session 9 Late papers Chair: Prof. H. Rabayah (Al-Zaytoonah University, Jordan)
16:55-17:00	Break	
16:35-16:55	Note of Thanks & Farewell	
16:55-17:00	Break	
17:00-17:30	EPPM business meeting (All are welcome)	