

Paper ID#	Organization of Contact Author	Country	Authors	Paper Title	Date	Session	Session Title	Order	From	To
8	National Technical University of Athens	Greece	Panas, A., Kalaitzakis, N., Pantouvakis, J-P.	Development of an automated tool for the comparative estimation of earthmoving productivity	13-Oct	3	Productivity, Performance and	2	15:20	15:40
9	Massey University	New Zealand	Weerasinghe, A.S., Rasheed, E., Rotimi, J.	Social-psychological insights into energy-saving behaviours: An occupant survey in New Zealand	14-Oct	5	Smart and Sustainable	4	11:10	11:30
10	Military Technological College	Oman	Al Farsi, G., Umar, A., Braimah, N.	Investigating labour productivity factors affecting the construction industry in Oman	14-Oct	9	Late Papers	1	15:30	15:50
12	UAE University	UAE	Shafiq, M.T., Sami Ur RM; Thaheem, J Albattah, M.A.	A case study of implementing project management processes in EPC contracts	13-Oct	2	Project Management	4	13:00	13:20
17	COMSATS University Islamabad Wah Campus	Pakistan	Ali, U. Maqsoom, A. Ahmed, M.R., Irfan, M., Ashraf, H., Ghufuran, M.	Factors causing cost overrun in projects: A case of Pakistan's construction industry	13-Oct	2	Project Management	6	13:40	14:00
20	Universiti Malaysia Pahang	Malaysia	Zamani, S.H., Rahman, R.A., Yusof, L.M.	WELL Building: Criteria for Residential Buildings in a Developing Country	14-Oct	5	Smart and Sustainable	1	10:10	10:30
21	Universiti Malaysia Pahang	Malaysia	Bunjaridh, Y., Yusof L.M., Rahman, R.A.	Digital Twin Production in the AECO Industry: Organizational Attributes and Strategies	14-Oct	7	Modern Technology in AEC - II	5	13:50	14:10
25	Universiti Malaysia Pahang	Malaysia	Kanathan, J.D.A., Yusof, L.M., Rahman, R.A.	Internet of Things (IoT) Impacts on Facility Management of Office Buildings	14-Oct	6	Smart manufacturing and	4	11:10	11:30
26	Universiti Malaysia Pahang	Malaysia	bin Mohd Redzuan, M.S., Yusof, L.M., Rahman, R.A.	Complaints and Rectifications During Defect Liability Period: Homebuyer Perspective	14-Oct	8	Legal, Contracts, Procurement &	1	12:30	12:50
28	National Technical University of Athens	Greece	Panas, A., Kavouria, E., Pantouvakis, J.P.	Comparative evaluation of road safety in an existing road network in Greece	13-Oct	3	Productivity, Performance and	4	16:00	16:20
29	Hellenic Open University	Greece	Basas, V., Panas, A., Pantouvakis, J.P.	Critical review of pertinent research on digital twins and their applications in the construction industry	14-Oct	7	Modern Technology in AEC - II	4	13:30	13:50
36	National Technical University of Athens	Greece	Chelioti, K., Tsaimou, C.N., Tsoukala, V.	Unmanned Aerial Vehicles: A Survey on Monitoring Advancements for Port Infrastructure Applications	14-Oct	7	Modern Technology in AEC - II	3	13:10	13:30
37	Aristotle University of Thessaloniki	Greece	Margaritopoulos, V., Xenidis, Y.	Using BIM for condition-based maintenance: A case study of energy modeling for a residential building	14-Oct	7	Modern Technology in AEC - II	2	12:50	13:10
38	Democritus University of Thrace	Greece	Biblias, A., Xanthopoulos, A.	Comparing alternative power control policies in a manufacturing line using simulation	14-Oct	6	Smart manufacturing and	3	10:50	11:10
39	Democritus University of Thrace	Greece	Volas, T., Xanthopoulos, A., Kypriotis, V.	Simulation modeling and analysis of a bottled water plant	13-Oct	4	Simulation, prediction and	1	15:00	15:20
42	Bialystok University of Technology	Poland	Nazarko, J. , Chodakowska, E., Nazarko, L.	Logistics 4.0 and the competences of logistics engineers in perception of students – evidence from Poland	14-Oct	6	Smart manufacturing and logistics	5	11:30	11:50
43	Bialystok University of Technology	Poland	Chodakowska, E., Nazarko, J., Nazarko, L.	Application of ARIMA Models to Solar Radiation Forecasting	13-Oct	4	Simulation, prediction and	2	15:20	15:40
44	National Technical University of Athens	Greece	Tsaimou, C.N., Kagkeli, D.G., Karantzas, K. Tsoukala, V.	Remote Sensing Synergies for Port Infrastructure Monitoring and Condition Assessment	14-Oct	7	Modern Technology in AEC - II	1	12:30	12:50
45	Central University of Technology, Free State	South Africa	Mollo, L.G.	Integrating Wearable Sensing Device Applications To Improve Construction Workers' Health	13-Oct	3	Productivity, Performance and	5	16:20	16:40
46	Bialystok University of Technology	Poland	Nazarko, L., Nazarko, J., Chodakowska, E.	Foresight orientation and responsible innovation in production and services: Is there a link?	13-Oct	4	Simulation, prediction and	5	16:20	16:40
47	Central University of Technology, Free State	South Africa	Mollo, L.G., Khafiso, T., Kheswa, P.	An Analysis of Factors Influencing Building Energy Consumption: A Case Study	14-Oct	5	Smart and Sustainable	6	11:50	12:10
53	University of Johannesburg	South Africa	Vermeulen, A., Pretorius, J.H., Seshoene, R.	A Systems Dynamics Approach for Reduction of Container Terminal Congestions Through Application of Lean Six Sigma: A Case Study for Port of Durban	14-Oct	6	Smart manufacturing and logistics	6	11:50	12:10

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57	University of Johannesburg	South Africa	Ogbeifun, E., Pretorius, J.H.	Harnessing the multiple benefits of fragmentation of capital infrastructure projects	14-Oct	8	Legal, Contracts, Procurement &	3	13:10	13:30
60	Massey University	New Zealand	Moshood, T.D, Rotimi, J.O.B., Shahzad, W.M.	Implementation of pipeline projects: Matters arising in the New Zealand construction industry	13-Oct	2	Project Management	1	12:00	12:20
63	Sirindhorn International Institute of Technology (SIIT), Thammasat University	Thailand	Chinda, T., Suanmali, S., Chayutthanabun, A.	The Adoption of Smart Warehouse Technology in Thailand	14-Oct	6	Smart manufacturing and logistics	2	10:30	10:50
73	Massey University	New Zealand	Asadi, R., Rotimi, J.O.B., Wilkinson, S.	The assessment of general conditions of contract for addressing rework issues in construction projects	14-Oct	8	Legal, Contracts, Procurement &	4	13:30	13:50
75	Auburn University	USA	Salman, A., Sattineni, A., Wetzel, E., Rahn, K., Reese, J.	Development of a Building Readiness Rating Index for an Outbreak/Pandemic: A Pilot Study	14-Oct	5	Smart and Sustainable	2	10:30	10:50
77	Chaoyang University of Technology	Taiwan	Wang, R-J., Yu, W-D., Liao, H-C., Chang, H-C., Lim, J-Y., Bulgakov, A.	Application and Benefit Evaluation of AIoT Image Sensing for Construction Safety Monitoring	13-Oct	1	Modern Technology in AEC - I	1	12:00	12:20
85	Istanbul Technical University	Turkey	Sahin, C., Yildirim, N.	A Bibliometric Analysis for Sustainable Development and Digitalization in Construction Industry	13-Oct	1	Modern Technology in AEC - I	6	13:40	14:00
87	Nelson Mandela University	South Africa	Gilmore, J., Crafford, K., Smallwood, J.	The Potential of Concrete 3D Printing in Construction	13-Oct	1	Modern Technology in AEC - I	2	12:20	12:40
88	Sirindhorn International Institute of Technology (SIIT), Thammasat University	Thailand	Uduwage-Don, N., Panuwatwanich, K.	Novel framework for contract awarding process for public construction projects in Sri Lanka: Learning from a systematic literature review	14-Oct	8	Legal, Contracts, Procurement & Education	5	13:50	14:10
90	Al-Zaytoonah University of Jordan	Jordan	Abendeh, R., Rabayah, H.S., Alhouran, R., Salman, D.	Flexural strengthening and repairing of reinforced concrete beams by using textile glass fabric	14-Oct	5	Smart and Sustainable	5	11:30	11:50
91	Central University of Technology, Free State	South Africa	Emuze, F., Sibuyi, V.	A Case Study of Pathogens in Municipal Projects	13-Oct	2	Project Management	2	12:20	12:40
92	Central University of Technology, Free State	South Africa	Emuze, F., Nazo, X.	Pathogens and time overruns in power construction projects in South Africa	13-Oct	4	Simulation, prediction and	3	15:40	16:00
94	Al-Zaytoonah University of Jordan	Jordan	Alhoran, R., Bazlamit, S., Elhajj, W.D., Rabayah, H.S.	Integrating Industry 4.0 Concepts in Civil Engineering Education	14-Oct	8	Legal, Contracts, Procurement &	2	12:50	13:10
95	School of Built Environment, Massey University	New Zealand	Sutrisna, M., Wilkinson, S.	Managing Risks in Ensuring Capacity and Capability for Construction Sector: A New Zealand Case Study	14-Oct	Special	SPECIAL SESSION: Managing Risks in Ensuring Capacity and Capability for Construction	1	15:15	16:15
98	University of Mississippi	USA	Abendeh, R., Baker, M., Salman, D.	Mechanical Performance of Cellular Concrete Incorporating Silica Fume and Polypropylene Fibers	13-Oct	1	Modern Technology in AEC - I	5	13:20	13:40
99	Deakin University	Australia	Vahabi, A., Nasirzadeh, F., Mills, A.	Brief Clarity and Project Performance : Comparing Two Prediction Methods	13-Oct	3	Productivity, Performance and	6	16:40	17:00
100	Sirindhorn International Institute of Technology, Thammasat University	Thailand	Nackarajarn, P., Chaysiri, R., Pitayasiri, N., Amatayakul, P.	Developing Day Trading Techniques for the Thailand SET100 Index Using Artificial Neural Networks and Technical Indicators	13-Oct	4	Simulation, prediction and foresight	4	16:00	16:20
101	Mangosuthu University of Technology	South Africa	Akinlolu, M.T., Haupt, T.	Hand-Arm Vibration Exposure: A Survey of Construction Workers in South Africa	13-Oct	3	Productivity, Performance and	1	15:00	15:20

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102	Auburn University	USA	Tatum, M.C., Liu, L.	Applications of UAS Technologies for Small or Medium Contractors	13-Oct	1	Modern Technology in AEC - I	3	12:40	13:00
106	National University of Sciences and Technology, Islamabad	Pakistan	Ghufran, M., Khan, K.I.A., Nasir, A.R., Hassan, M.U., Maqsoom, A.	Drivers of Circular Economy for Sustainable Development in the Construction Industry	14-Oct	5	Smart and Sustainable Building	3	10:50	11:10
107	Monash University	Australia	Karimi, R., Moehler, R.	Social media as a phenomenon in projects and the project management: A comprehensive literature review	13-Oct	2	Project Management	3	12:40	13:00
110	Sirindhorn International Institute of Technology (SIIT), Thammasat University	Thailand	Le, K.T.N., Jeenanunta, C.	The Pandemic Effect On the Industry 4.0 Readiness: A Case Study in Vietnamese Industry	14-Oct	6	Smart manufacturing and logistics	1	10:10	10:30
112	Chaoyang University of Technology	Taiwan	Yu, W-D., Chang, H-C., Hsiao, W-T., Bulgakov, A.	A Model Combining Computer Vision and Drone for Proactive Construction Site Safety Monitoring	13-Oct	1	Modern Technology in AEC - I	4	13:00	13:20
115	Northumbria University	United Kingdom	Maqbool, R., Oldfield, L., Ashfaq, S.	Skill Shortage within the UK Construction Industry, and the Impact on Quality Management	13-Oct	3	Productivity, Performance and	3	15:40	16:00
117	Northumbria University	United Kingdom	Anyigor, K., Osborne, A.	The effects of scope creep on project success	13-Oct	2	Project	5	13:20	13:40
118	Jolle Group	India	Bankolli, V.M., Jain, K.	Role of Tangible and Intangible Factors in Project Management: Bipolar Case Study In Marine Project	13-Oct	4	Simulation, prediction and	6	16:40	17:00
120	Al-Zaytoonah University of Jordan	Jordan	Al-Qawabah, S, Abu Shaban, N.	Enhancing the Sustaibility of Low Carbon Steel by Controling the Annealing Temprature Using N2 Gas	14-Oct	9	Late Papers	2	15:50	16:10
121	Al-Zaytoonah University of Jordan	Jordan	Abu Shaban, N. Othman, A.M., Al-Qawabah, S.	Utilizing the Natural Palm Tree Fibers as Thermal Insulator for Energy Saving in Jordanian residential Buildings	14-Oct	9	Late Papers	3	16:10	16:30