

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9910743242003321 |
| Titolo | Advances in civil engineering materials : selected articles from the international conference on architecture and civil engineering (ICACE2021) // edited by Mokhtar Awang, Lloyd Ling and Seyed Sattar Emamian |
| Pubbl/distr/stampa | Gateway East, Singapore : , : Springer, , [2022] ©2022 |
| ISBN | 981-16-8666-1 981-16-8667-X |
| Descrizione fisica | 1 online resource (349 pages) |
| Collana | Lecture Notes in Civil Engineering ; ; v.223 |
| Disciplina | 624 |
| Soggetti | Architecture Building materials Civil engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Intro -- Preface -- Acknowledgment -- Contents -- Substantiating Building Defect Cause Hypotheses Using SPSS Statistical Analysis on Quantitative Data -- 1 Introduction -- 2 Literature Research -- 3 Methodology -- 4 Results and Discussions -- 4.1 No Central Data Stage + Post-Construction Warranty Versus Work Experience-B3-Q30d, Q32/9 Histogram Breakdown Graphs (HBG) -- 4.2 Cross-Tabulation-90% Defects from no Proper Detail Versus Work Experience-Q33/Chi-Square -- 5 Conclusion -- References -- Runoff Prediction Errors with Conjugate Curve Number -- 1 Introduction -- 2 The S General Formula -- 2.1 The S General Formula Derivation Process -- 3 The Confusion Between Conjugate CN (CN) and CN0.2 -- 4 Results and Discussion -- 5 Conclusions -- References -- Evaluation on the Potential Improvement of Construction Sector Companies in Malaysia with Data Envelopment Analysis Model -- 1 Introduction -- 2 Literature Review -- 3 Methodology -- 4 Empirical Results -- 5 Conclusions -- References -- Analysis on Recognizability and Legibility of Urban Virtual Environment in Virtual Reality Through Cognitive Maps |

-- 1 Introduction -- 1.1 Literature Review -- 2 Methods -- 3 Discussion -- 4 Conclusions -- References -- Minimalism and Essentialism in Manila: Architecture and Urban Wellbeing in the Post GFC and New Normal -- 1 Introduction -- 2 Methodology -- 3 Thomasian Architecture -- 4 Catalogue of Minimalist Architecture in the Post GFC -- 5 Catalogue of Essential Architecture in the New Normal -- 6 Findings and Conclusion -- References -- Influence of Waste Oils on the Extracted Aged Binder Properties and Dosage Optimisation -- 1 Introduction -- 2 Materials and Method -- 2.1 Materials -- 2.2 Methods -- 3 Results and Discussion -- 3.1 Physical Properties Tests of Binders -- 3.2 Rheological Property Test -- 4 Conclusions -- References.

Typology of Design Concepts for Luxury Car Showrooms -- 1 Introduction -- 2 Research Method -- 3 Case Study-Showrooms -- 3.1 Volvo Showroom -- 3.2 Mercedes Benz Showroom -- 3.3 Lexus Showroom -- 4 Conclusion -- References -- Significance of Illuminance Level in Hafazan Learning Task -- 1 Introduction -- 2 Literature Review -- 3 Pilot Study -- 4 Conclusion -- References -- The Method of Measuring Students' Arabic Handwriting Performances in Classrooms -- 1 Introduction -- 1.1 Aim and Objectives -- 2 Literature Review -- 3 Case Study of Arabic Handwriting Performance Assessment -- 4 Conclusion -- References -- The Correlation Between Indoor Radon Concentration for Different Types of Building and Its Ages -- 1 Introduction -- 2 Methodology -- 2.1 Indoor Radon Concentration Measurement by Using Radon Eye Detector -- 2.2 Location of the Study -- 3 Results and Discussion -- 3.1 Indoor Radon Concentration Measurement Data in the Different Types of Residential -- 3.2 The Correlation Between Indoor Radon Concentration with Its Building Materials -- 3.3 The Correlation Between Indoor Radon Concentration with Ages of Residential Building -- 3.4 Mitigation Measures -- 4 Conclusion -- References -- Developmental Stages of Eversley Childs Sanitarium-An Urban and Architectural Approach -- 1 Introduction -- 2 Literature, Review of Sources -- 3 Research Methodology -- 4 Key Principles of Historical Community-Driven Leprosaria -- 5 The Original Approach of ECS Was Community-Driven (1928-1932) -- 6 Further Developmental Stages -- 7 Findings, Conclusions -- References -- Impact of the 4.0 Industrial Revolution on the Construction Industry in Malaysia -- 1 Introduction -- 2 Problem Statement -- 3 Research Methodology -- 3.1 Part A (Demographic Information) -- 3.2 Part B (Respondent's Response) -- 3.3 Part C (Respondent's Vision) -- 3.4 Data Analysis. 4 Result and Discussion -- 4.1 Experience with Industry 4.0 -- 4.2 Awareness of the Changing Social Needs in the Modern Construction Industry -- 4.3 Identify the Modern Business Industry That Is Forced to Abandon the Traditional Business Industry -- 4.4 Examine the Revolution Lead to Greater Dissimilarity in Modern Construction Industry -- 5 Conclusions -- References -- The Challenges and Impacts of COVID-19 on the Construction Industry in Malaysia -- 1 Introduction -- 2 Problem Statement -- 3 Methodology -- 4 Result and Discussion -- 4.1 Government Measures to Control Covid-19 in Malaysia -- 4.2 Disruption in the Supply Chain of Building Materials Due to COVID-19 -- 4.3 Delay in Construction Progress and Project Completion -- 4.4 Inspection of the Construction Sites in Malaysia -- 5 Conclusions and Recommendation -- References -- Application of Steel Framework for Multi-storey Modular House Modules: A Review -- 1 Introduction -- 2 Research Methodology -- 3 Steel Frame Structure -- 3.1 Light Steel Framework -- 3.2 High Strength Steel -- 4 Factors Affecting Steel Framework -- 4.1 Steel Framework Durability

and Resistance -- 4.2 Degradation of Steel Frame -- 4.3 High Steel Frame Fire Resistance -- 5 Conclusion -- References -- A Sustainable Facade Treatment Through Self Cleaning Coating Agents: A Review -- 1 Introduction -- 2 Types of Coatings -- 2.1 Paint -- 2.2 Self Repelling Paints/Coatings -- 2.3 Photocatalyst Coating -- 2.4 Anti Bacterial Coating -- 3 Analytical Study to Distinguishing the Application of Nano-coating for Building Components -- 4 Conclusion -- References -- Investigation of Direct Sunlight in Existing Classroom Design in Indonesia: Case Study of Lhokseumawe -- 1 Introduction -- 2 Methods -- 3 Data Analysis -- 4 Result -- 5 Discussion -- 6 Conclusion -- References.

Turning Challenge into Advantage: UNIMAS Experience in Conducting Architecture Design Studio During COVID-19 Pandemic -- 1 Introduction -- 1.1 Hypothesis -- 1.2 Exploratory and Blended Learning -- 2 Research Methods -- 2.1 Studio Teaching and Learning Challenges -- 2.2 Case Study-UNIMAS Design Studio T&L Approaches During MCO -- 2.3 Students' Perception -- 3 Discussion -- 4 Conclusions -- References -- Factors of Obsolescence Affecting Adaptively Reused Shophouses in the Core Zone of Melaka, Malaysia -- 1 Introduction -- 2 Methods -- 3 Results and Discussion -- 3.1 Physical Obsolescence -- 3.2 Functional Obsolescence -- 3.3 Technological Obsolescence -- 3.4 Economic Obsolescence -- 3.5 Environmental Obsolescence -- 3.6 Locational Obsolescence -- 3.7 Social Obsolescence -- 3.8 Legal Obsolescence -- 4 Conclusions -- References -- Performance Comparison on Water Demand Methods Applied at Pengkalan Gawi, Kenyir Lake, Malaysia -- 1 Introduction -- 2 Dataset -- 3 Methodology -- 3.1 Micro-Component Analysis (MCA) -- 3.2 National Water Services Commission (SPAN) Guidelines -- 3.3 Statistical Analysis -- 4 Result and Discussion -- 4.1 Actual Water Consumption and Forecasted Water Consumption (MCA and SPAN Guidelines) -- 4.2 Statistical Analysis -- 5 Conclusions -- References -- Numerical Validation of Hydrodynamic Responses and Mooring Top Tension of a Turret Moored FPSO Using Simulation and Experimental Results -- 1 Introduction -- 2 Governing Equations and Formulations -- 2.1 Dynamics of Mooring Lines -- 2.2 FPSO Hull Hydrodynamics -- 3 Numerical Modelling and Validation -- 3.1 Description of FPSO Model and the Mooring System -- 3.2 Prediction of Wind and Current Coefficient -- 3.3 FPSO Hull Modelling -- 3.4 Numerical Validation -- 4 Results and Discussions -- 4.1 Static Offset -- 4.2 Free Decay Test -- 4.3 Hydrodynamic Responses in 6DOF. -- 4.4 Dynamic Mooring Tension -- 5 Conclusions -- References -- Architectural Value in Tanggam System on the Traditional Malay House -- 1 Traditional Malay House -- 2 Architectural Value in Tanggam System -- 3 Discussion and Conclusion -- References -- Covid-19 Pandemic: Strategies to Improve Daylighting and Visual Comfort for Building Occupants -- 1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 4 Conclusions -- References -- The Impact of Wind Behavior on University Building Configurations in Iraq -- 1 Introduction -- 2 Research Methodology -- 3 Analysis Scope for Buildings Configurations by Using Autodesk CFD Software -- 4 Results and Discussion -- 5 Conclusion -- References -- Development of Corrosion Hazard Map in Peninsular Malaysia Using Inverse Distance Weighting (IDW) Interpolation -- 1 Introduction -- 2 Study Area -- 3 Methodology -- 4 Analysis and Discussion -- 4.1 The Pattern of Climate and Pollution Conditions of Peninsular Malaysia in Ten Years Duration -- 4.2 Generation of the Corrosion Hazard Map -- 5 Conclusion -- References -- Comparison of Corrosion Hazard Map in 10 Years Duration Using Air Pollution and Climate Data -- 1

Introduction -- 2 Study Area -- 3 Methodology -- 4 Discussion and Analysis -- 5 Conclusions -- References -- Drag Comparison for Coastal Species for Shoreline Protection -- 1 Introduction -- 2 Methods -- 3 Results and Discussion -- 4 Conclusions -- References -- Indoor Radon Concentration for Buildings of Different Ages in Universiti Teknologi Malaysia -- 1 Introduction -- 2 Methods -- 3 Results and Discussion -- 4 Conclusions -- References -- Evaluating on Time Performance of Urban Bus Services in Southern States of Peninsular of Malaysia -- 1 Introduction -- 2 Methodology -- 3 Results -- 4 Conclusion -- References.

Assessing the Passenger Load of Urban Bus Services in Southern States Peninsular of Malaysia.
