REFERENCES

- Aaker, A., Kumar, V., & George, S. (2000). Marketing Research. New York: John Wiley & Sons Inc.
- Ahmed, S., Azhar, S., Kapagantula, P., & Gollapudi, D. (2003). Delays in construction: A brief study of the Florida construction industry. 39th Annual Conf. of the Associated Schools of Construction, . Clemson: Clemson University.
- Aibinu, A. A., & Jagboro, G. O. (2002). The Effects of Construction Delays on Project Delivery in Nigerian Construction Industry. *International Journal of Project Management*, 20(8), 593-599.
- Akbiyikli, R., & Eaton, D. (2005). A Comparision of Procurement Routes for Infrastrucutre Construction. *Built and Human Envionment*, 20.
- Akhtar, I. (2016). Research Design. Research in Social Science. Interdisciplinary Perspectives.
- Akomah, B. B., & Jackson, E. N. (2016). Contractors' Perception of Factors Contributing to Road Project Delay. *International Journal of Construction Engineering and Management*, 5(3), 79-85.
- Alkass, S., Mazerolle, M., & Harris, F. (1996). Construction Delay Analysis Techniques. *Construction Management and Economics*, 14(5), 375-394.
- Alkass, S., Mazerolle, M., Tribaldos, E., & Harris, F. (1995). Computer aided construction delay analysis and claims preparation. *Construction Management* and Economics, 13(4), 335-352.
- Al-Kharashi, A., & Skitmore, M. (2009). Causes of Delays in Saudi Arabian Public Sector Construction Projects. *Construction Management and Economics*, 27(1), 3-23.

- Al-Momani, A. H. (2000). Construction Delays a Quantitative Analysis. *International Journal of Project Management*, 18(1), 51-59.
- Alnaas, K. A., Ayman, H. H., & Nassar, G. E. (2014). Guideline for Preparing a Comprehensive Extension of Time (EoT) Claim. *HBRC Journal*, 10, 308-316.
- Alotaibi, N. O., Sutrisna, M., & Chong, H. (2016). Guidelines of Using Project Management Tools and Techniques to Mitigate Factors Causing Delays in Public Constuction Projects in Kingdom of Saudi Arabia. *Journal of Engineering, Project, and Production Management,* 6(2), 90-10.
- Amaratunga, R., Fernando, W., & Perera, B. (2016). The Quantity Surveyor adopts the Information Technology to assist the Construction Delay Claims . *Proceedings in Engineering, Built Environment and Spatial Sciences, 9th International Research Conference-KDU* (pp. 308-313). Colombo, Sri Lanka: Kothalawala Defense University.
- Arditi, D., & Pattanakitchamroon, T. (2006). Selecting a delay analysis method in resolving construction claims. *International Journal of Project Management*, 24(1), 145-155.
- Asenahabi, B. (2019). Basics of Research Design: A Guide to selecting appropriate research design. *International Journal of Contemporary Applied Researches*, 6, 76-89.
- Baduge, S., & Jayasena, H. (2012). Application of concurrency in delay claims . World Construction Conference 2012 – Global Challenges in Construction Industry, (pp. 69-78). Colombo, Sri Lanka.
- Baril, A., Allain, H., Bachar, A., Christiansen, E., & Fitzner, B. (2008). Management of Utilities in and Adjacent to the Public Right-of-Way. Torento: Ministry of Transportation and Infrastructure.

- Beesley, C. (2012). How to start a small construction or general contracting business. *Contractor Refference Guide*, 2.
- Bewick, A., Boettcher, M., Bott, J., & Meredith, P. (2002). Construction. Washington: Industrial College of the Armed Forces.
- Booth, W. (1963). Constitutional Law—Reimbursement of Utility Relocation Costs. *Washington Law Review*, 38(2), 284-289.
- Bordoli, D. W., & Baldwin, A. N. (1998). A Methodology for Assessing Construction Project Delays. *Construction Management and Economics*, 16(3), 327-337.
- Braimah, N. (2013). Approaches to Delay Claims Assessment Employed in the UK Construction Industry. *Buildings*, *3*, 598-620.
- Brown , A. (2000). 2000 Utility Coordination COncepts on Highway Projects. National Highway/Utility Education Conference, 151-164.
- Burke-Johnson, R., Onwueegbuzie, A., & Turner, L. (2007). Towards a Definition of Mixed Methods Research. *Journal of Mixed Methods Research*, 1(2), 112-133.
- Chabota, K., Muya, M., & Mumba, K. (2009). Cost escalation and schedule delays in road construction projects in Zambia. *International Journal of Project Management*, 27, 522-531.
- Chaphalkar, N., & Iyer, K. (2014). Factors Influencing Decisions on Delay Claims in Construction Contracts for Indian Scenario. Australasian Journal of Construction Economics and Building, 14(1), 32-44.
- Chawla, H. (2010). *NBMCW*. Retrieved from Some Critical Causes Pertaining to Road Construction Industry: https://www.nbmcw.com/tech-articles/roads-andpavements/18234-some-critical-causes-pertaining-to-road-constructionindustry.html

- Chou, C., Caldas, C. H., Connor, J. T., Sroka, A. W., & Goldman, G. K. (2009). Identification of Decision Drivers for the Strategy of Incorporating Utility Relocations into HIghway Construction Contracts. *Journal of Construction Engineering and Management*, 135(9), 812-818.
- Creswell, J. (2009). *Research Design: Qualitative, Quantitative and Mixed Method Approaches* (3rd ed.). Los Angeles: SAGE Publications.
- Creswell, J. (2014). *Qualitative, quantitative, and mixed methods approaches*. Thousand Oaks, California: SAGE Publications.
- Denzin, N., & Lincoln, Y. (2005). The Discipline and Practice of Qualitative Research. In The Sage Handbook of Qualitative Research. Thousand Oaks: Sage Publications.
- Dok, Y. D., & Odoom, J. J. (2020). Assessing the Significant Factors Contributing to Extension of Time in Road Construction Contracts in Ghana. *Journal of Civil Engineering Research*, 10(1), 1-9.
- Elkatwneh, H. (2016). Comparing Qualitative and Quantitative Approaches. SSRN Electronic Journal.
- Ellis, R. (2003). Development of Improved Strategies for Avoiding Utility Related Delays During FDOT Highway Construction Projects. Florida: University of Florida.
- Enshassi, A., Al-Hallaq, K., & Mohamed, S. (2006). Causes of contractor's business failure in developing countries: The case of Palestine. *Journal of Construction in Developing Countries*, 11(2), 1-14.
- Enshassi, A., Al-Najjar, Y., & Kumaraswamy, M. (2009). Delays and cost overruns in the construction projects in the Gaza strip. *Journal of Financial Management of Property and Construction*, 14(2), 126-151.

- Faridi, A. S., & El-Sayegh, S. M. (2007). Significant Factors Causing Delay in the UAE Construction Industry. *Construction Management and Economics*, 24(11), 1167-1176.
- Federal Highway Administration. (2002). *European Right-of-Way and Utilities Best Practice*. Washington, D.C.: Federal Highway Administration.
- Foulkes, A., & Ruddock, L. (2006). Defining The Scope of The Construction Sector. 10.
- Frimpong, Y., Oluwoye, J., & Crawford, L. (2003). Causes of delay and cost overruns in construction of groundwater projects in developing countries: Ghana as a case study. *International Journal of Project Management*, 21(5), 321-326.
- GAO. (1999). Impacts of Utility relocations on Highway and Bridge Projects. United Sates: General Accounting Office.
- Gao, H., & Zhang, X. (2013). A Markov-Based Road Maintenance Optimization Model Considering User Costs. Computer-Aided Civil and Infrastructure Engineering, 28(6), 451-464.
- Goodrum, P., Smith, A., Slaughter, B., & Kari, F. (2008). Case Study and Statistical Analysis of Utility Conflicts on Construction Roadway Projects and Best Practices in Their Avoidance. JOURNAL OF URBAN PLANNING AND DEVELOPMENT, 134, 63-70.
- Goonaratne, M. (2014). Analysis and Evaluation of The Effect of Claim and Change Management Process in The Construction of Mass Transit System Project in Bangkok - Red Line. Thailand: Asian Institute of Technology, School of Engineering Technology.
- Government Accountability Office. (1999). Transportation Infrastructure: Impacts of Utility Relocations on Highway and Bridge Projects. Washington, D.C.: United States General Accounting Office.

- Haider, A., & Barnes, P. (2011). Delay and Disruption Claims in Construction A Practical Approach. London: Thomas Telford Limited.
- Halwatura, R. U., & Ranasinghe, N. P. (2013). Causes of Variation Orders in Road Construction Projects. *Construction Management and Economics*, 7.
- Harikrishnan, & Manoharan , D. (2016). Evaluation of Communication Pattern and Causes in Construction Industry. *International Journal of Emerging Technology and Advanced Engineering*, 3.
- Hasan, R., Suliman, S. M., & Malki, Y. A. (2014). An Investigation into the Delays in Road Projects in Bahrain. *International Journal of Research in Engineering* and Science, 2(2), 38-47.

Hillerbrabdt, P. (1985). Analysis of the Contruction Industry. Macmilan.

- Huang, Y., Hakim, B., & Zammataro, S. (2010). Measuring the Carbon Footprint of Road Construction. *International Journal of Pavement Engineering*, 34-71.
- INFORM Severity (2020). Severity Index User Guide. The Joint Research Centre of the European Commission. available at https://drmkc.jrc.ec.europa.eu/inform-index.
- Iramanerat, C., Yudkowsky, R., & Downing, S. (2008). Quality control of an OSCE using generalizability theory and many-faceted Rasch measurement. . Advantages of Health and Science Education and Theory Practise, 479-493.
- James, H., & Anspach, J. H. (2010). *Utility Location and Highway Design*. Washington: Federal Highway Administration.
- Jangbo, O. (2014). The role of research design in a purpose driven enquiry. *Review of Public Administration and Management*, 87-94.
- Janseen, S. T. (2010). Road Classification and Categorization. *Institute for Road Safety zzzzzzzzdhhhhhhhhhdResearch*, 30.

Jilica , K. (2019). Research Design and Methodology. IntechOpen.

- Kamanga, M. J., & Stewen, M. (2013). Causes of Delay in Road Construction Projects in Malawi. *Journal of the South African Institute of Civil Engineers*, 55(3), 79-85.
- Kapur, R. (2018). Research Methodology: Methods and Strategies. Retrieved May 2020, from https://www.researchgate.net/publication/324588113_Research_Methodolog y_Methods_and_Strategies?enrichId=rgreq-88a9b557975e2f349e161fb75b0e29a8-XXX&enrichSource=Y292ZXJQYWdlOzMyNDU4ODExMztBUzo2MTY3 NDMxNTYzMjY0M
- Kartam, S. (1999). Generic Methodology for Analysing Delay Claims. Journal of Construction Engineering and Management, 125, 409-419.
- Kasen, P., Glenn, J., & Burrus, S. (2017). *Strategies to Reduce Cost Overruns and Schedule Delays in Construction Projects*. Walden University.
- Kassem, M., Khoiry, M., & Hamzah, N. (2020). Using Relative Importance Index Method for Developing Risk Map in Oil and Gas Construction Projects. *Jurnal Kejuruteraan, 32*, 85-97.

Kawakami, T. (2005). Baseline Road Project. Colombo: Asahi Ltd.

- Kazaz, A., Ulubeyli, S., & Tuncbilekli, N. A. (2012). Causes of Delays in Construction Projects in Turkey. *Journal of Civil Engineering and Management*, 18(3), 426-435.
- Keane, P. J., & Calettka, A. F. (2008). Delay analysis in construction contracts . Oxford: Blackwell Publishing Ltd.

- Khair, K., Farouk, A., Elhaj, H., Mohamed, Z., & Mohammad, R. (2016). Causes and Effects of Delay Factors in Road Construction Projects in Sudan. *International Journal of Applied Engineering Research*.
- Kothari, C. (2004). *Research Methodology: Methods and Techniques* (2nd ed.). New Delhi: New Age International (P) Ltd.
- Krick, & James, E. (1980). Utility Relocation and Accomodation. Washington: FHWA.
- Leibing, R. (2001). *The construction industry: Processes, players, and practices*. Upper Saddle River, NJ: Prentice Hall.
- Leuderalbert, K. (1999). *Avoiding Utility Relocations*. Washington, D.C.: Federal Highway Administration US Department of Transportation.
- Lo, T. Y., Fung, I. W., & Tung, K. C. (2006). Construction Delays in Hong Kong Civil Engineering Projects. *Journal of Construction Engineering and Management*, 132(6), 636-649.
- LPP. (2013). Chapter 14 Utility Relocation . In LPP, Local Assistance Procedures Manual (pp. 14:1-14:10).
- Mahamid, I. (2011). Risk matrix for factors affecting time delay in road construction projects: Owners' perspective. *Engineering, Construction and Architectural Management, 18*(6), 609-617.
- Mahamid, I., Bruland, M., & Dmaidi, N. (2012). Causes of Delay in Road Construction Projects. *Journal of Management in Engineering.*, 28, 300-310.
- Mansfield, N. R., Ugwu, O., & Doran, T. (1994). Causes of Delay and Cost Overruns in Nigerian Construction Projects. *International Journal of Project Management*, 12(4), 254-260.

- Martin, J., & Najafi, F. (2007). Design Build Approach for Utility Relocation and Accommodation in Highway Widening Projects. Society of Afghan Engineers Journal, 4(1), 46-57.
- Marzouk, M., Abdelkader, E. M., El-zayat, M., & Aboushady, A. (2017). Assessing Environemtnal Impact Indicators in Road Constrution Project in Developing Countries. *Sustainability*, 21.
- Mehany, M. S., & Grigg, N. (2016). Delay Claims in Road Construction: Best Practices for a Standard Delay Claims Management System. *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 8(3).
- Merewitz, L. (1973). Cost Overruns in Public Works: Benefit-Cost and Policy Analysis. Chicago: Aldine.
- Michael, M., Marti, P. E., Kathryn, L., Knutson, A. I., & Corkle, J. (2002). Utility Relocation: A Communication and Coordination Process for Local Governments. 49.
- Mishra, A., Mandal, L., & Pant, R. (2018). Causes of Dispute in International Competitive Bidding Road Contracts Funded by Asian Development Bank in Nepal. Journal of Advanced Research in Business Law and Technology Management, 1(3), 1-12.
- Mohajan, H. (2017). Aspects of Mathematical Economics, Social Choice and Game Theory. A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Applied Mathematics.
- Mohsin, M. (2012). Claim Analysis of Construction Projects in Oman. International Journal on Advanced Science Engineering and Information Technology, 2(2), 73-78.
- Murdoch, J., & Hughes, W. (1992). *Construction Contracts: Law and Management*. London: E & FN Spon.

- Nakamura, H., Nagasawa, K., Hiraishi, K., & Hesegawa, A. (2019). *Principles of Infrastructure*. Chiyoda-ku: Mitsubishi Research Institute.
- Nakamura, H., Nagasawa, K., Hiraishi, K., & Hesegawa, A. (2019). *Principles of Infrastructure*. Chiyoda-ku: Mitsubishi Research Institute.
- Odeh, A. M., & Battaineh, H. T. (2002). Causes of Construction Delay: Traditional Contracts. *International Journal of Project Management*, 20(1), 67-73.
- Osman, H., & El-Diraby, T. (2007). Implementation of Subsurface Utility Engineering in Ontario: Cases and a Cost Model. *Canadian Journal of Civil Engineering*, 34(12), 1529-1541.
- Oyegoke, A. S., & Al Kiyumi, N. (2017). The Causes, Impacts and Mitigations of Delay in Megaprojects in the Sultanate of Oman. *Journal of Financial Management of Property and Construction*, 22(3), 286-302.
- Patel, D., Agarwal, P., Upadhyaya, D., & Jignesh, P. (2021). Recent Scenario of Underground Utilities Installation. 3, 111-115.
- Pathiranage, Y., & Halwathura, R. (2010). *Factors Influencing the Duration of RoadConstruction Projects in Sri Lanka*. Retrieved from http://dl.lib.mrt.ac.lk.
- Perera, B. A., Dhanasighe, I., & Rameezdeen, R. (2009). Risk Management in Road Construction. International Journal of Strategic Property Management, 87-102.
- Perera, B. A., Dhanasinghe, I., & Rameezdeen, R. (2009). Risk Management in Road Construction: The case of Sri Lanka. *International Journal of Strategic Property Management*, 87-102.
- Prasad, B. (2008). Content analysis. Research methods for social work, 1-20.

- Qi, J., Nadhir, A.-A., & Sven, K. (2013). Measurement of dust emission from a road construction using exposure-profilling method. 2.
- Quiroga, & Cesar. (2006). Specification Framework for Communication Utilities and Estimation of Utility Adjustment Costs. Texas Department of Transportation.
- Quiroga, C., Ford, D., Taylor, T., Kranc, S., & Kraus, E. (2008). Construction Specification Framework for Utility Installations. *Transportation Research Record: Journal of the Transportation Research Board*, 162-172.
- Quiroga, C., Kraus, E., Scott, P., Swafford, T., Meis, P., & Monday, G. (2012). *Identification of Utility Conflicts and Solutions*. Washington, D.C.: Transportation Research Board.
- Ralph, D., Ellis, J., & Lee, S.-h. (2005). Developing Best Practices for Avoiding Utility Relocation Delays. 9.
- Rayes, K., Liu, L., Gohary, N., Fard, M., & Ignacio, E. (2017). Best management practices and incentives to expedite utility relocation. Urbana: Illinois Center for Transportation.
- RDA. (2000). *Road Maintenance and Rehabilitation Project*. Road Development Authority Sri Lanka.
- RDA. (2009). Best Practices for Utility Relocations. 7.
- RDA. (2011). Colombo-Horana Highway. National Highway Sector.
- RDA. (2016). Proposed Central Expressway Project. Nugegoda: RDA.
- Reinke, M. (2010). Evaluation of Utility Relocation Costs and best Management Practices. School of Clemson University.
- Remon, F. A., & Asmaa, A. A. (2016). Exploring delay causes of road construction. *Alexandria Engineering Journal*, 55(2), 1515-1539.

- Robinson, M. (2011). A Contractor's Guide to the FIDIC Conditions of Contract. West Sussex: John Wiley & Sons, Ltd.
- Sadi, A., & Sadiq, A. (2006). Causes of delay in large construction projects. International Journal of Project Management, 24, 349-357.
- Schexnayder, C. J., Weber, S. L., & Fiori, C. (2003). NCHRP Synthesis of Highway Practice: Project Cost Estimating. Washington D.C.: Transportation Research Board of the National Academics.
- Seboru, M. A. (2015). An Investigation into Factors Causing Delays in Road Onstruction Projects. *American Jurnal Civil Engineering*, 51-63.
- Semple, C., Hartman, F. T., & Jergeas, G. (1994). Construction Claims and Disputes: Causes and Cost/Time Overruns. *Journal of Construction Engineering and Management*, 120(4), 785-795.
- Sexton, M., Kahkonen, K., & Lu, S.-L. (2007). *Ravaluing Construction*. CIB Genral Secreteriat.
- Shabbar, H., Ullah, F., Ayub, B., Thaheem, M., & Gabriel, H. (2017). Empirical Evidence of Extension of Time in Construction Projects. *Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 9(3), 04517008:1-04517008:11.
- Shehob, A., Dawood, N., Shah, R., & Xu, Q. (2012). Comparative study of delay factors in Libyan and the UK construction industry. *Engineering, Construction* and Architectural Management, 19(6), 688-712.
- Shelu, A. G. (2016). A Management System for Minimizing Variation in Road Construction Projects. 6-10.
- Sivaprakasam, S., Selllakutty, D., & Jayakumar, J. (2017). A Review on Causes of Delay in Construction Projects. *International Journal for Scientific Research* & Development/, 5, 2321-613.

- Snyder, H. (2014). Literature review as a research methodology: an overview and guidelines. *Journal of Business Research*, 104, 333-339. doi:10.1016/j.jbusres.2019.07.039
- Stephanie. (2014, December 8). Cronbach's Alpha: Simple Definition, Use and Interpretation. Retrieved from Calculus How To: https://www.statisticshowto.com/cronbachs-alpha-spss/
- Stojadinovic, Z. (2018). Claims on construction projects Quantification and Prevention. *Contemporary Construction Practice 2018* (pp. 83-112). Serbia: University of Belgrade.
- Stokes, M. (2011). Moving the Lines: The Common Law of Utility Relocation. Valparaiso University Law Review, 45(2), 457-504.
- Strugill, R. E., Taylor, T. R., Ghorashinezhad, S., & Zhang, J. (2014). Methods to Expedite and Streamline Utility Relocation for Road Projects. Lexington: Kentucky Transportation Center.
- Sturgill, R. E., Taylor, T. R., Ghorashinezhud, S., & Zhang, J. (2014). Methods to Expedite and Streamline Utility Relocations for Road Projects. Kentucky: Kentucky Transportation Centre.
- Sullivan, A., & Harris, F. C. (1986). Delays on large construction projects. International Journal of Operations and Production Management, 6(1), 25-33.
- Tavakol, M., & Dennick, R. (2011). Making Sense of Cronbach's Alpha. International Journal of Medical Education, 2, 53-55.
- Thilakaratne, K. M., Buhar, N., Zhao, X., Senga, K., & Vokes, R. (2009). *Road Network Improvement*. Asian Development Bank.
- Thomas, H., Ellis, R., & Sinha, S. (2006). Improving the time performance of highway construction contracts. Transportation Research Board of The National Academies.

Thomas, R. (1993). Construction Contract Claims. London : Macmillan.

- Thorne, J., Turner, D., & Lindly, J. (1993). *Highway Utility Guide*. Washington: Department of Civil Engineering.
- Torngren, W. (1972). Cost Allocation in Public Utility Relocation in California. *Hastings Law Journal*, 23(3), 848-873.
- Vilventhan, A., & Kalidindi, S. (2016). Interrelationships of factors causing delays in the relocation of utilities. *Engineering, Construction and Architectural Management, 23*(3), 349-368.
- Vilventhan, A., & Kalidindi, S. (2018). Utility relocation management in highway projects. *Built Environment Project and Asset Management*, 1-12.
- Vishwanadham, M., & Eshwariah, S. (2018). Sustainable infrastructure-Sustainable Builidng Design and Construction. *ResearchGate* (p. 13). Hyderabad: ResearchGate.
- Vogt, W., Gardner, D., & Haeffele, L. (2012). *What Research Design*. New York: The Guilford Press.
- Wallace, D. I. (1986). Construction Contracts: Principles and Policies in Tort and Contract. London: Sweet & Maxwell.
- Wang, C. C., Boadu, E. F., & Sunindijo, Y. R. (2020). Characteristics of the COnstruction Industry in Developing Countries . *International Journal of Environmental Reasrch and Public Health*, 20.
- Weddikkara, C., & Devapriya, K. (n.d.). Demand and Supply Trends and Construction Industry Development. A Case Study in the Sri Lankan Construction Industry, 15.
- Weddikkara, C., & Devapriya, K. (2001). Demand and Supply Trends and Construction Industry Development: A Case Study in the Sri Lankan

Construction Industry. *Australasian Journal of Construction Economics and Building*.

- Wijekoon, S., & Attanayake, A. C. (2012). *Study on the Cost Overruns in RoadConstruction Projects in Sri Lanka*. Retrieved from http://dl.lib.mrt.ac.lk
- Wijenayake, T. (2014). *Delays and escalating cost in road construction*. Retrieved from www.ftlk
- Yogeswaran, K., Kumaraswamy, M. M., & Miller, D. R. (1998). Claims for extensions of time in civil engineering projects. *Construction Management and Economics*, 16, 283-293.
- Yusuwan, N. M., & Adnan, H. (2013). Assessing Extension of Time Application in Malaysian Construction Industry: Views from Professionals. *Procedia - Social* and Behavioral Sciences, 105, 54-63.
- Zech, W., Crowley, L., & Bailey, C. (2008). Development of a procedure for updating liquidated damage rates used in Aldot's construction contracts. Montgomery, AL: Highway Research Center and Department of Civil Engineering at Auburn University.
- Zhao, H., & Wu, D. (2017). Definition, Function, and Framework of Road Construction. *Road and Airport Engineering*, 3.