

4 References

- Acharya, S., Hori, T., 2019. Revisiting Flood Management Process in Transboundary Koshi River in Nepal and India 10.
- Alcaraz, C., Zeadally, S., 2015. Critical infrastructure protection: Requirements and challenges for the 21st century. *International Journal of Critical Infrastructure Protection* 8, 53–66. <https://doi.org/10.1016/j.ijcip.2014.12.002>
- Aldunce, P., Beilin, R., Handmer, J., Howden, M., 2016. Stakeholder participation in building resilience to disasters in a changing climate. *Environmental Hazards* 15, 58–73. <https://doi.org/10.1080/17477891.2015.1134427>
- Alfarsi, H., 2018. Critical Infrastructure: Definition and Examples. Profolus. URL <https://www.profolus.com/topics/critical-infrastructure-definition-and-examples/> (accessed 6.26.19).
- American Association of State Highway and Transportation Officials, 2015. Fundamental capabilities of effective all-hazards infrastructure protection, resilience, and emergency management for state departments of transportation.
- Argyroudis, S.A., Mitoulis, S.A., Hofer, L., Zanini, M.A., Tubaldi, E., Frangopol, D.M., 2020. Resilience assessment framework for critical infrastructure in a multi-hazard environment: Case study on transport assets. *Science of The Total Environment* 714, 136854. <https://doi.org/10.1016/j.scitotenv.2020.136854>
- Asian Development Bank, 2018. Understanding Disaster Risk for Advancing Resilient Development.
- Australian Government, 2010. Critical Infrastructure Resilience Strategy. Australian Government, Canberra.

- Azevedo de Almeida, B., Mostafavi, A., 2016. Resilience of Infrastructure Systems to Sea-Level Rise in Coastal Areas: Impacts, Adaptation Measures, and Implementation Challenges. *Sustainability* 8, 1115. <https://doi.org/10.3390/su8111115>
- Bai, C., Zhang, R., Qian, L., Wu, Y., 2017. Comparisons of probabilistic linguistic term sets for multi-criteria decision making. *Knowledge-Based Systems* 119, 284–291. <https://doi.org/10.1016/j.knsys.2016.12.020>
- Banister, D., Berechman, Y., 2001. Transport investment and the promotion of economic growth. *Journal of Transport Geography, Mobility and Spatial Dynamics* 9, 209–218. [https://doi.org/10.1016/S0966-6923\(01\)00013-8](https://doi.org/10.1016/S0966-6923(01)00013-8)
- Berariu, R., Fikar, C., Gronalt, M., Hirsch, P., 2015. Understanding the impact of cascade effects of natural disasters on disaster relief operations. *International Journal of Disaster Risk Reduction* 12, 350–356. <https://doi.org/10.1016/j.ijdrr.2015.03.005>
- Birkmann, J., von Teichman, K., 2010. Integrating disaster risk reduction and climate change adaptation: key challenges—scales, knowledge, and norms. *Sustain Sci* 5, 171–184. <https://doi.org/10.1007/s11625-010-0108-y>
- Bocchini, P., Frangopol, D.M., Ummenhofer, T., Zinke, T., 2014. Resilience and Sustainability of Civil Infrastructure: Toward a Unified Approach. *Journal of Infrastructure Systems* 20, 04014004. [https://doi.org/10.1061/\(ASCE\)IS.1943-555X.0000177](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000177)
- Boston public works department, 2018. Climate resilient design standards and guidelines.
- Burby, R.J., 2006. Hurricane Katrina and the Paradoxes of Government Disaster Policy: Bringing About Wise Governmental Decisions for Hazardous Areas. *The ANNALS of the American Academy of Political and Social Science* 604, 171–191. <https://doi.org/10.1177/0002716205284676>
- Cantelmi, R., Di Gravio, G., Patriarca, R., 2021. Reviewing qualitative research approaches in the context of critical infrastructure resilience. *Environ Syst Decis*. <https://doi.org/10.1007/s10669-020-09795-8>
- Celik, E., Gul, M., Aydin, N., Gumus, A.T., Guneri, A.F., 2015. A comprehensive review of multi criteria decision making approaches based on interval type-2 fuzzy sets. *Knowledge-Based Systems* 85, 329–341. <https://doi.org/10.1016/j.knsys.2015.06.004>
- Chauvy, R., Lepore, R., Fortemps, P., De Weireld, G., 2020. Comparison of multi-criteria decision-analysis methods for selecting carbon dioxide utilization products. *Sustainable Production and Consumption* 24, 194–210. <https://doi.org/10.1016/j.spc.2020.07.002>
- Cheng, E.W.L., Li, H., 2001. Analytic hierarchy process: an approach to determine measures for business performance. *Measuring Business Excellence* 5, 30–37. <https://doi.org/10.1108/EUM0000000005864>
- Chopra, S.S., Dillon, T., Bilec, M.M., Khanna, V., 2016. A network-based framework for assessing infrastructure resilience: a case study of the London metro system. *Journal of The Royal Society Interface* 13, 20160113. <https://doi.org/10.1098/rsif.2016.0113>
- Cimellaro, G.P., Renschler, C., Reinhorn, A.M., Arendt, L., 2016. PEOPLES: A Framework for Evaluating Resilience. *Journal of Structural Engineering* 142, 04016063. [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0001514](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001514)
- Cottrell, W., Bryan, S., Chilukuri, B., Kalyani, V., Stevanovic, A., Wu, J., 2009. Transportation Infrastructure Maintenance Management: Case Study of a Small Urban City. *Journal of Infrastructure Systems - J INFRASTRUCT SYST* 15. [https://doi.org/10.1061/\(ASCE\)1076-0342\(2009\)15:2\(120\)](https://doi.org/10.1061/(ASCE)1076-0342(2009)15:2(120))
- Dark tourists, 2020. Visiting the Sri Lanka Tsunami Train Wreck. *Dark Tourists*. URL <https://darktourists.com/visiting-the-sri-lanka-tsunami-train-wreck/> (accessed 11.25.20).
- Dawson, D., Shaw, J., Roland Gehrels, W., 2016. Sea-level rise impacts on transport infrastructure: The notorious case of the coastal railway line at Dawlish, England. *Journal of Transport Geography* 51, 97–109. <https://doi.org/10.1016/j.jtrangeo.2015.11.009>
- Delatte, N., 2017. *Concrete Pavement Design, Construction, and Performance*. CRC Press, London. <https://doi.org/10.1201/9781482288483>
- Dhaka Tribune, 2019. Relief, as Cyclone Fani crosses Bangladesh with no major disaster [WWW Document]. *Dhaka Tribune*. URL <https://www.dhakatribune.com/bangladesh/nation/2019/05/05/relief-as-cyclone-fani-crosses-bangladesh-with-no-major-disaster> (accessed 5.13.20).
- Doll, B.A., Kurki-Fox, J.J., Line, D.E., 2020. A Framework for Planning and Evaluating the Role of Urban Stream Restoration for Improving Transportation Resilience to Extreme Rainfall Events. *Water* 12, 1620. <https://doi.org/10.3390/w12061620>
- Domino, M.E., Fried, B., Moon, Y., Olinick, J., Yoon, J., 2003. Disasters and the Public Health Safety Net: Hurricane Floyd Hits the North Carolina Medicaid Program. *Am J Public Health* 93, 1122–1127.

- Dow, K., Cutter, S.L., 2002. Emerging Hurricane Evacuation Issues: Hurricane Floyd and South Carolina. *Natural Hazards Review* 3, 12–18. [https://doi.org/10.1061/\(ASCE\)1527-6988\(2002\)3:1\(12\)](https://doi.org/10.1061/(ASCE)1527-6988(2002)3:1(12))
- Ede, A.N., Oshiga, K., 2014. MITIGATION STRATEGIES FOR THE EFFECTS OF CLIMATE CHANGE ON ROAD INFRASTRUTURE IN LAGOS STATE. *International journal of Science Commerce and Humanities* 2, 173–184.
- Esangbedo, M.O., Che, A., 2016. Grey Weighted Sum Model for Evaluating Business Environment in West Africa [WWW Document]. *Mathematical Problems in Engineering*. <https://doi.org/10.1155/2016/3824350>
- Espinete, X., Schweikert, A., van den Heever, N., Chinowsky, P., 2016. Planning resilient roads for the future environment and climate change: Quantifying the vulnerability of the primary transport infrastructure system in Mexico. *Transport Policy* 50, 78–86. <https://doi.org/10.1016/j.tranpol.2016.06.003>
- Fakhruddin, S.H.M., Babel, M.S., Kawasaki, A., 2015. Assessing the vulnerability of infrastructure to climate change on the Islands of Samoa. *Natural Hazards and Earth System Sciences* 15, 1343–1356. <https://doi.org/10.5194/nhess-15-1343-2015>
- Fang, Y., Pedroni, N., Zio, E., 2016. Resilience-Based Component Importance Measures for Critical Infrastructure Network Systems. *IEEE Transactions on Reliability* 65, 502–512. <https://doi.org/10.1109/TR.2016.2521761>
- FEMA, 2003. FEMA.gov [WWW Document]. URL <https://www.fema.gov/about/glossary> (accessed 11.2.20).
- Ferreira, A., Santos, J., Flintsch, G., 2014. A life cycle assessment model for pavement management: Methodology and computational framework. *International Journal of Pavement Engineering* 16. <https://doi.org/10.1080/10298436.2014.942861>
- Fisher, M.K., Gamper, C., 2017. Policy Evaluation Framework on the Governance of Critical Infrastructure Resilience in Latin America | Publications.
- Grenzeback, L., 2008. Case Study of the Transportation Sector’s Response to and Recovery from Hurricanes Katrina and Rita 44.
- Helff, F., Gruenwald, L., 2016. Weighted Sum Model for Multi-Objective Query Optimization for Mobile-Cloud Database Environments 6.
- Henning, T.F.P., World Bank, 2017. Integrating Climate Change into Road Asset Management. World Bank, Washington, DC. <https://doi.org/10.1596/26505>
- Ho Oh, E., Deshmukh, A., Hastak, M., 2010. Disaster impact analysis based on inter-relationship of critical infrastructure and associated industries: A winter flood disaster event. *International Journal of Disaster Resilience in the Built Environment* 1, 25–49. <https://doi.org/10.1108/17595901011026463>
- Hughes, J.F., Healy, K., NZ Transport Agency, 2014. Measuring the resilience of transport infrastructure. ITF, 2016. *Adapting Transport to Climate Change and Extreme Weather*.
- Jayasiri, G.P., Siriwardena, C.S.A., Hettiarachchi, S.S.L., Dissanayake, P.B.R., Bandara, C.S., 2018. Evaluation of Community Resilience Aspects of Sri Lankan Coastal Districts. *International Journal on Advanced Science, Engineering and Information Technology* 8, 2161. <https://doi.org/10.18517/ijaseit.8.5.7095>
- Johnson, S., Faiz, A., Visser, A., 2019. Concrete Pavements for Climate Resilient Low-Volume Roads in Pacific Island Countries, Other Infrastructure Study. World Bank. <https://doi.org/10.1596/32394>
- Katina, P., Hester, P., 2013. Systemic determination of infrastructure criticality. *International Journal of Critical Infrastructures* 9, 211–225. <https://doi.org/10.1504/IJCIS.2013.054980>
- Koc, E., Cetiner, B., Rose, A., Soibelman, L., Taciroglu, E., Wei, D., 2020. CRAFT: Comprehensive Resilience Assessment Framework for Transportation Systems in Urban Areas. *Advanced Engineering Informatics* 46, 101159. <https://doi.org/10.1016/j.aei.2020.101159>
- König, S., Rass, S., 2018. Investigating Stochastic Dependencies Between Critical Infrastructures.
- Kumar, G., Parimala, N., 2020. A weighted sum method MCDM approach for recommending product using sentiment analysis. *IJBIS* 35, 185. <https://doi.org/10.1504/IJBIS.2020.110172>
- Labaka, L., Hernantes, J., Sarriegi, J.M., 2016. A holistic framework for building critical infrastructure resilience. *Technological Forecasting and Social Change* 103, 21–33. <https://doi.org/10.1016/j.techfore.2015.11.005>
- Lee, G.K.L., Chan, E.H.W., 2008. The Analytic Hierarchy Process (AHP) Approach for Assessment of Urban Renewal Proposals. *Soc Indic Res* 89, 155–168. <https://doi.org/10.1007/s11205-007-9228-x>
- Lehmann, I., Weber, R., Zimmermann, H.-J., 1992. Fuzzy set theory. *Operations Research-Spektrum* 14, 1–9. <https://doi.org/10.1007/BF01783496>
- Liu, Y., McNeil, S., 2020. Using Resilience in Risk-Based Asset Management Plans. *Transportation Research Record* 2674, 178–192. <https://doi.org/10.1177/0361198120912239>

- Markolf, S.A., Hoehne, C., Fraser, A., Chester, M.V., Underwood, B.S., 2019. Transportation resilience to climate change and extreme weather events – Beyond risk and robustness. *Transport Policy* 74, 174–186. <https://doi.org/10.1016/j.tranpol.2018.11.003>
- McDaniels, T., Chang, S., Cole, D., Mikawoz, J., Longstaff, H., 2008. Fostering resilience to extreme events within infrastructure systems: Characterizing decision contexts for mitigation and adaptation. *Global Environmental Change* 18, 310–318. <https://doi.org/10.1016/j.gloenvcha.2008.03.001>
- Mimura, N., Yasuhara, K., Kawagoe, S., Yokoki, H., Kazama, S., 2011. Damage from the Great East Japan Earthquake and Tsunami - A quick report. *Mitig Adapt Strateg Glob Change* 16, 803–818. <https://doi.org/10.1007/s11027-011-9297-7>
- Ministry of National Policies and Economic Affairs, Ministry of Disaster Management, 2016. Sri Lanka Post-Disaster Needs Assessment.
- Mitoulis, S.A., Argyroudou, S.A., Loli, M., Imam, B., 2021. Restoration models for quantifying flood resilience of bridges. *Engineering Structures* 238, 112180. <https://doi.org/10.1016/j.engstruct.2021.112180>
- Morshed, S.A., Arafat, M., Ashraf Ahmed, M., Saha, R., 2020. Discovering the Commuters' Assessments on Disaster Resilience of Transportation Infrastructure 23–34. <https://doi.org/10.1061/9780784483169.003>
- Morshed, S.A., Arafat, M., Mokhtarimousavi, S., Khan, S.S., Amine, K., 2021. 8R Resilience Model: A stakeholder-centered approach of disaster resilience for transportation infrastructure and network. *Transportation Engineering* 4, 100058. <https://doi.org/10.1016/j.treng.2021.100058>
- Mostafavi, A., 2017. A System-of-Systems Approach for Integrated Resilience Assessment in Highway Transportation Infrastructure Investment. *Infrastructures* 2, 22. <https://doi.org/10.3390/infrastructures2040022>
- Mostafavi, A., Inman, A., 2016. Exploratory analysis of the pathway towards operationalizing resilience in transportation infrastructure management. *Built Environment Project and Asset Management* 6, 106–118. <https://doi.org/10.1108/BEPAM-03-2015-0011>
- Moteff, J., Copeland, C., Fischer, J., 2003. Critical Infrastructures: What Makes an Infrastructure Critical? 20.
- Murdock, H.J., De Bruijn, K.M., Gersonius, B., 2018. Assessment of Critical Infrastructure Resilience to Flooding Using a Response Curve Approach. *Sustainability* 10, 3470. <https://doi.org/10.3390/su10103470>
- Nipa, T.J., Kermanshachi, S., Ramaji, I., 2019. Comparative Analysis of Strengths and Limitations of Infrastructure Resilience Measurement Methods 10.
- OECD, 2018. Policy perspectives for climate resilient infrastructure.
- OECD, 2008. Handbook on constructing composite indicators: methodology and user guide [WWW Document]. <https://www.oecd.org/els/soc/handbookonconstructingcompositeindicatorsmethodologyanduserguide.htm> (accessed 6.15.20).
- Önüt, S., Soner Kara, S., Efendigil, T., 2008. A hybrid fuzzy MCDM approach to machine tool selection. *J Intell Manuf* 19, 443–453. <https://doi.org/10.1007/s10845-008-0095-3>
- Özkan, G., İnal, M., 2014. Comparison of neural network application for fuzzy and ANFIS approaches for multi-criteria decision making problems. *Applied Soft Computing* 24, 232–238. <https://doi.org/10.1016/j.asoc.2014.06.032>
- Parish, I.J., Robson, M., Nicholson, R., 2008. Importance of a Pavement Management System in Assessing Pavement Damage from Natural Disasters: A Case Study to Assess the Damage from Hurricanes Katrina and Rita.
- Patriarca, R., Di Gravio, G., Costantino, F., Falegnami, A., Bilotta, F., 2017. An Analytic Framework to Assess Organisational Resilience. *Safety and Health at Work* 9. <https://doi.org/10.1016/j.shaw.2017.10.005>
- Perera, C., Jayasooriya, D., Jayasiri, G., Randil, C., Bandara, C., Siriwardana, C., Dissanayake, R., Hippola, S., Sylva, K., Kamalrathne, T., Kulatunga, A., 2020. Evaluation of gaps in early warning mechanisms and evacuation procedures for coastal communities in Sri Lanka. *International Journal of Disaster Resilience in the Built Environment* 11, 415–433. <https://doi.org/10.1108/IJDRBE-07-2019-0048>
- Pitigala Liyana Arachchi, I.S., Siriwardana, C., Amaratunga, D., Haigh, R., 2021. Evaluation of societal trust on multi-hazard early warning (MHEW) mechanism: Sri Lankan context. *International Journal of Disaster Resilience in the Built Environment* ahead-of-print. <https://doi.org/10.1108/IJDRBE-01-2021-0010>
- Rathnayake, D.K., Kularatne, D., Abeysinghe, S., Shehara, I., Fonseka, T., Edirisinghe Mudiyansele, S.D.J., Kamalrathne, W.G.C.T., Siriwardana, C., Alagiyawanna Mohotti Appuhamilage, C.S.B.,

- Dissanayake, R., 2020. Barriers and enablers of coastal disaster resilience – lessons learned from tsunami in Sri Lanka. *International Journal of Disaster Resilience in the Built Environment* 11, 275–288. <https://doi.org/10.1108/IJDRBE-07-2019-0050>
- Rehak, D., Senovsky, P., Hromada, M., Lovecek, T., 2019. Complex approach to assessing resilience of critical infrastructure elements. *International Journal of Critical Infrastructure Protection* 25, 125–138. <https://doi.org/10.1016/j.ijcip.2019.03.003>
- Reigle, J.A., Zaniewski, J.P., 2002. Risk-Based Life-Cycle Cost Analysis for Project-Level Pavement Management. *Transportation Research Record* 1816, 34–42. <https://doi.org/10.3141/1816-05>
- Saja, A.M.A., Sahid, M.S.L., Sutharshanan, M., 2020. Implementing Sendai Framework priorities through risk-sensitive development planning – A case study from Sri Lanka. *Progress in Disaster Science* 5, 100051. <https://doi.org/10.1016/j.pdisas.2019.100051>
- Santos, J., Ferreira, A., 2013. Life-cycle cost analysis system for pavement management at project level. *International Journal of Pavement Engineering* 14, 71–84. <https://doi.org/10.1080/10298436.2011.618535>
- Santos, J., Ferreira, A., Flintsch, G., 2017. A multi-objective optimization-based pavement management decision-support system for enhancing pavement sustainability. *Journal of Cleaner Production* 164, 1380–1393. <https://doi.org/10.1016/j.jclepro.2017.07.027>
- Serre, D., Heinzlef, C., 2018. Assessing and mapping urban resilience to floods with respect to cascading effects through critical infrastructure networks. *International Journal of Disaster Risk Reduction, Understanding and mitigating cascading crises in the global interconnected system* 30, 235–243. <https://doi.org/10.1016/j.ijdr.2018.02.018>
- Shakou, L.M., Wybo, J.-L., Reniers, G., Boustras, G., 2019. Developing an innovative framework for enhancing the resilience of critical infrastructure to climate change. *Safety Science* 118, 364–378. <https://doi.org/10.1016/j.ssci.2019.05.019>
- Shaw, R., Krishnamurthy, R.R., 2009. *Disaster Management: Global Challenges and Local Solutions*. Universities Press.
- Shehara, I., Siriwardana, C., Amaratunga, D., Haigh, R., 2019. An Overview of Existing Digital Platforms in Disaster Emergency Response Stage. Presented at the SBE19 Malta International Conference, Malta.
- Shehara, P.L.A.I., Siriwardana, C.S.A., Amaratunga, D., Haigh, R., 2020. Examining the Community Perception Towards Communication Modes of Issuing Multi-Hazard Early Warning (MHEW) in Sri Lanka, in: 2020 Moratuwa Engineering Research Conference (MERCon). Presented at the 2020 Moratuwa Engineering Research Conference (MERCon), pp. 60–65. <https://doi.org/10.1109/MERCon50084.2020.9185325>
- Shehara, P.L.A.I., Siriwardana, C.S.A., Amaratunga, D., Haigh, R., 2019a. Application of Social Network Analysis (SNA) to Identify Communication Network Associated with Multi-Hazard Early Warning (MHEW) in Sri Lanka, in: 2019 Moratuwa Engineering Research Conference (MERCon). Presented at the 2019 Moratuwa Engineering Research Conference (MERCon), pp. 141–146. <https://doi.org/10.1109/MERCon.2019.8818902>
- Shehara, P.L.A.I., Siriwardana, C.S.A., Amaratunga, D., Haigh, R., Wijayarathne, T.M.N., 2019b. Investigation of the Systematic Behaviour of Critical Infrastructures over Floods on Economic Loss Determination. Presented at the SBE19 Malta International Conference.
- Shrestha, R.K., Ahlers, R., Bakker, M., Gupta, J., 2010. Institutional Dysfunction and Challenges in Flood Control: A Case Study of the Kosi Flood 2008 9.
- Smart Transportation Alliance, 2015. *Towards climate resilient transportation infrastructure*.
- Soltani-Sobh, A., Heaslip, K., Scarlatos, P., Kaisar, E., 2016. Reliability based pre-positioning of recovery centers for resilient transportation infrastructure. *International Journal of Disaster Risk Reduction* 19, 324–333. <https://doi.org/10.1016/j.ijdr.2016.09.004>
- Sun, W., Bocchini, P., Davison, B.D., 2020. Resilience metrics and measurement methods for transportation infrastructure: the state of the art. *Sustainable and Resilient Infrastructure* 5, 168–199. <https://doi.org/10.1080/23789689.2018.1448663>
- The Rockefeller foundation, 2015. *City resilience framework*.
- Tonn, G., Czajkowski, J., Kunreuther, H., Angotti, K., Gelman, K., 2020. Measuring Transportation Infrastructure Resilience: Case Study with Amtrak. *Journal of Infrastructure Systems* 26, 05020001. [https://doi.org/10.1061/\(ASCE\)IS.1943-555X.0000526](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000526)
- Tornyeviadzi, H.M., Neba, F.A., Mohammed, H., Seidu, R., 2021. Nodal vulnerability assessment of water distribution networks: An integrated Fuzzy AHP-TOPSIS approach. *International Journal of Critical Infrastructure Protection* 34, 100434. <https://doi.org/10.1016/j.ijcip.2021.100434>

- Twumasi-Boakye, R., Sobanjo, J., 2019. Civil infrastructure resilience: state-of-the-art on transportation network systems. *Transportmetrica A: Transport Science* 15, 455–484. <https://doi.org/10.1080/23249935.2018.1504832>
- Umm-e-Habiba, Asghar, S., 2009. A survey on multi-criteria decision making approaches, in: 2009 International Conference on Emerging Technologies. Presented at the 2009 International Conference on Emerging Technologies, pp. 321–325. <https://doi.org/10.1109/ICET.2009.5353151>
- UNDP, 2011. Paving the way for climate resilient infrastructure.
- UNDRR, 2017. Disaster resilience scorecard for cities.
- UNISDR, 2010. United Nations International Strategy for Disaster Reduction (UNISDR) Secretariat Evaluation.
- United Nations, 2020. CLIMATE CHANGE IMPACTS AND ADAPTATION FOR COASTAL TRANSPORT INFRASTRUCTURE: A compilation of... policies and practices. UNITED NATIONS, S.I.
- United States. Department Of Transportation, 2015. US DOT Public Access Plan website. <https://doi.org/10.21949/1503647>
- USAID, 2015a. Guide for climate resilient road construction.
- USAID, 2015b. A Methodology for Incorporating Climate Change Adaptation in Infrastructure Planning and Design: Bridges.
- Utne, I.B., Hokstad, P., Vatn, J., 2011. A method for risk modeling of interdependencies in critical infrastructures. *Reliability Engineering & System Safety*, ESREL 2009 Special Issue 96, 671–678. <https://doi.org/10.1016/j.ress.2010.12.006>
- Vugrin, E.D., Warren, D.E., Ehlen, M.A., 2011. A resilience assessment framework for infrastructure and economic systems: Quantitative and qualitative resilience analysis of petrochemical supply chains to a hurricane. *Process Safety Progress* 30, 280–290. <https://doi.org/10.1002/prs.10437>
- Wang, T., Ma, X., Li, H., Dong, Z., 2021. Analysis methodology and assessment indices of vulnerability for asphalt pavement in cold regions. *Journal of Infrastructure Preservation and Resilience* 2, 11. <https://doi.org/10.1186/s43065-021-00028-z>
- Wang, T., Qu, Z., Yang, Z., Nichol, T., Dimitriu, D., Clarke, G., Bowden, D., 2019. How can the UK road system be adapted to the impacts posed by climate change? By creating a climate adaptation framework. *Transportation Research Part D: Transport and Environment* 77, 403–424. <https://doi.org/10.1016/j.trd.2019.02.007>
- Wang, Y.-M., Liu, J., Elhag, T.M.S., 2008. An integrated AHP–DEA methodology for bridge risk assessment. *Computers & Industrial Engineering* 54, 513–525. <https://doi.org/10.1016/j.cie.2007.09.002>
- Weilant, S., Strong, A., Miller, B., 2019. Incorporating Resilience into Transportation Planning and Assessment. RAND Corporation. <https://doi.org/10.7249/RR3038>
- Windarto, A., Muhammad, A., 2017. Comparison of Weighted Sum Model and Multi Attribute Decision Making Weighted Product Methods in Selecting the Best Elementary School in Indonesia. *International Journal of Software Engineering and Its Applications* 11, 69–90. <https://doi.org/10.14257/ijseia.2017.11.4.06>
- World Bank, 2019. What states can learn from Odisha in disaster preparedness and mitigation [WWW Document]. URL <https://www.worldbank.org/en/news/speech/2019/06/14/odisha-fani-disaster-preparedness> (accessed 2.24.20).
- World Bank, 2017. Climate and Disaster Resilient Transport in Small Island Developing States.
- World Bank, 2015. Moving towards climate resilient transport.
- World Road Association (PIARC), 2019. Adaptation methodologies and strategies to increase the resilience of roads to climate change.
- Yamamura, H., Kaneda, K., Mizobata, Y., 2014. Communication Problems After the Great East Japan Earthquake of 2011. *Disaster Med Public Health Prep* 8, 293–296. <https://doi.org/10.1017/dmp.2014.49>
- Yun, C.-B., Lee, J.-J., Kim, S.-K., Kim, J.-W., 2003. Recent R&D activities on structural health monitoring for civil infra-structures in Korea. *KSCE J Civ Eng* 7, 637–651. <https://doi.org/10.1007/BF02829136>
- Zeng, D., Chawathe, S.S., Huang, H., Wang, F.-Y., 2007. Protecting Transportation Infrastructure. *IEEE Intelligent Systems* 22, 8–11. <https://doi.org/10.1109/MIS.2007.4338487>
- Zhao, T., Zhang, Y., 2020. Transportation infrastructure restoration optimization considering mobility and accessibility in resilience measures. *Transportation Research Part C: Emerging Technologies* 117, 102700. <https://doi.org/10.1016/j.trc.2020.102700>

Zimmerman, R., Faris, C., 2010. Infrastructure impacts and adaptation challenges. *Annals of the New York Academy of Sciences* 1196, 63–86. <https://doi.org/10.1111/j.1749-6632.2009.05318.x>