References

- P. Dissanayake, S. Hettiarachchi, and C. Siriwardana, 'Increase in Disaster Risk due to inefficient Environmental Management, Land use policies and Relocation Policies. Case studies from Sri Lanka', *Procedia Eng.*, vol. 212, pp. 1326–1333, 2018, doi: 10.1016/j.proeng.2018.01.171.
- [2] C. W. Callaghan, 'Disaster management, crowdsourced R&D and probabilistic innovation theory: Toward real time disaster response capability', *Int. J. Disaster Risk Reduct.*, vol. 17, pp. 238–250, Aug. 2016, doi: 10.1016/j.ijdrr.2016.05.004.
- [3] D. Horesh and A. D. Brown, 'Traumatic stress in the age of COVID-19: A call to close critical gaps and adapt to new realities.', *Psychol. Trauma Theory Res. Pract. Policy*, vol. 12, no. 4, p. 331, Apr. 2020, doi: 10.1037/tra0000592.
- [4] CDC, 'Coronavirus Disease 2019 (COVID-19) Transmission', *Centers for Disease Control and Prevention*, Apr. 13, 2020. https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html (accessed May 05, 2020).
- [5] Universite catholique de Louvaln, Centre for Research on the Epidemiology of Disasters, and United States Agency for International Development, 'Natural Disasters 2017'. 2018, [Online]. Available: https://cred.be/sites/default/files/adsr_2017.pdf.
- [6] N. N. Brushlinsky, S. V. Sokolov, P. Wagner, and J. R. Hall, 'World Fire Statistics', 2006.
- [7] World Health Organization (WHO), Ed., Changing History. Geneva, 2004.

- [8] P. Blomqvist, 'Emissions from Fires, Consequences for Human Safety and the Environment', Doctoral Thesis, Lund University, 2005.
- [9] UNDRR, 'Sri Lanka Fire', *DesInventar Sendai*, 2020. https://www.desinventar.net/DesInventar/profiletab.jsp (accessed May 10, 2020).
- [10] D. Kularatne, C. Siriwardana, and H. Hasalanka, 'Investigation of emergency and disaster management of hospitals in Sri Lanka; a pilot study', presented at the International Conference on Sustainable Built Environment, Kandy, Sri Lanka, Dec. 2018.
- [11]D. Kularatne, H. Hasalanka, and C. Siriwardana, 'Conceptual Compilation of Activity Criteria During the Post-Disaster Stage of a Fire Hazard in Hospitals', presented at the International Conference on Structural Engineering and Construction Management, Kandy, Sri Lanka, Dec. 2019.
- [12] D. Kularatne, C. Siriwardana, and H. Hasalanka, 'Evaluating the Applicability of the "Hospital Safety Index Guide" for the Sri Lankan Context', in 2019 Moratuwa Engineering Research Conference (MERCon), Moratuwa, Sri Lanka, Jul. 2019, pp. 406– 411, doi: 10.1109/MERCon.2019.8818932.
- [13] World Health Organization (WHO), 'Health Financing Profile 2017 Sri Lanka'. 2017.
- [14]G. F. White, 'Natural hazards research', in *Directions in Geography*, London, UK: Methuen and Co., 1973, pp. 193–216.
- [15] United Nations International Strategy for Disaster Risk Reduction, *Terminology on Disaster Risk Reduction*. Geneva, 2009.
- [16] O. D. Cardona et al., 'Determinants of risk: exposure and vulnerability', in Managing the Risksof Extreme Events and Disasters to Advance Climate Change Adaptation, Cambridge, UK and New York, NT, USA: Cambridge University Press, 2012, pp. 65– 108.
- [17] W. Kron, 'Flood Risk = Hazard * Exposure * Vulnerability', in *Flood defence 2002: proceedings of the Second International Symposium on Flood Defence, Beijing, China*, B. Wu, Ed. Beijing: Science Press, 2002.
- [18]Department of Homeland Security, 'Plan and Prepare for Disasters', Jun. 19, 2012. https://www.dhs.gov/plan-and-prepare-disasters (accessed Apr. 02, 2020).
- [19] United Nations New York and Geneva, 'Disaster Preparedness for Effective Response Guidance and Indicator Package for Implementing Priority Five of the Hyogo Framework Hyogo', 2008.
- [20] S. Kaplan and B. J. Garrick, 'On The Quantitative Definition of Risk', *Risk Anal.*, vol. 1, no. 1, pp. 11–27, Mar. 1981, doi: 10.1111/j.1539-6924.1981.tb01350.x.
- [21] UNISDR (United Nations International Strategy for Disaster Reduction), *Living with risk*. Geneva, 2002.
- [22]S. B. Manyena, 'The concept of resilience revisited', *Disasters*, vol. 30, no. 4, pp. 434–450, 2006.
- [23] World Health Organization and Pan American Health Organization, *Hospital Safety Index Guide for Evaluators*, 2nd ed. World Health Organization, 2015.
- [24]UNDRR, 'Sri Lanka', *DesInventar Sendai*, 2020. https://www.desinventar.net/DesInventar/profiletab.jsp?countrycode=lka&continue=y (accessed May 17, 2020).
- [25]National Fire Protection Association (NFPA), 'Reporter's Guide: All about fire'. https://www.nfpa.org/News-and-Research/Publications-and-media/Press-
- Room/Reporters-Guide-to-Fire-and-NFPA/All-about-fire (accessed Mar. 25, 2020).
- [26] Classification of fires. BSI, 1992.
- [27] ISO, Fire Resistance Tests. Geneva: International Organization for Standardization, 1975.
- [28] R. Feasey, 'Post-flashover design fires', School of Engineering, University of Canterbury, Christchurch, New Zealand, Fire engineering research report 99/6, Mar. 1999. [Online]. Available: https://core.ac.uk/download/pdf/35470056.pdf.

- [29] A. A. Alarifi, H. N. Phylaktou, and G. E. Andrews, 'What Kills People in a Fire? Heat or Smoke?', presented at the 9th Saudi Students Conference, Birmingham, UK, Feb. 2016.
- [30]G. Ramachandran, *The Economics of Fire Protection*. 2002.
- [31]N. Charmaine, 'More fires, but fewer occur in residential areas', *The Straits Times*, Singapore, Feb. 23, 2019.
- [32]Y. Sam Jo, 'Number of fires here down to 20-year low', *The Straits Times*, Singapore, Feb. 16, 2014.
- [33]K. Haikonen, P. M. Lillsunde, P. Lunetta, and E. Kokki, 'Economic burden of fire-related deaths in Finland, 2000–2010: Indirect costs using a human capital approach', *Burns*, vol. 42, no. 1, pp. 56–62, Feb. 2016, doi: 10.1016/j.burns.2015.10.015.
- [34] A. Pajunen, 'Official Statistics of Finland (OSF): Causes of Death', 2017. https://www.stat.fi/til/ksyyt/2016/ksyyt_2016_2017-12-29_kat_005_en.html (accessed May 17, 2020).
- [35] The Geneva Association (GA), 'World Fire Statistics'. The Geneva Association, Apr. 2014.
- [36] Fire Service Academy, 'Fatal residential fires in Europe: A preliminary assessment of risk profiles in nine European countries', Institute for Safety, Arnhem, 2018.
- [37]D. Winberg, *International Fire Death Rate Trends*. Sweden: SP Technical Research Institute of Sweden, 2016.
- [38]B. N. Leistikow, D. C. Martin, and C. E. Milano, 'Fire Injuries, Disasters, and Costs from Cigarettes and Cigarette Lights: A Global Overview', *Prev. Med.*, vol. 31, no. 2, pp. 91– 99, Aug. 2000, doi: 10.1006/pmed.2000.0680.
- [39]C. J. L. Murray, Ed., The global burden of disease: a comprehensive assessment of mortality and disability from diseases, injuries, and risk factors in 1990 and projected to 2020; summary. Cambridge: Harvard School of Public Health [u.a.], 1996.
- [40] IRIN News, 'Developing countries hardest hit by wildfires', *The New Humanitarian*, Jun. 28, 2011. https://www.thenewhumanitarian.org/report/93072/global-developing-countries-hardest-hit-wildfires (accessed May 18, 2020).
- [41]Pinkerton Consulting and Investigations, 'Fire Risk in Developing Nations', *Pinkerton*, May 22, 2019. /our-insights/blog/2220/fire-risk-in-developing-nations/ (accessed May 18, 2020).
- [42] 'Fire-related fatalities at historic low in 2019', *Yle Uutiset*, 2020. https://yle.fi/uutiset/osasto/news/fire-

related_fatalities_at_historic_low_in_2019/11143849 (accessed May 17, 2020).

- [43]NDTV, 'Dhaka High-Rise Hit By Deadly Blaze Lacked Proper Fire Exits', NDTV.com, Mar. 29, 2019. https://www.ndtv.com/world-news/bangladesh-dhaka-high-rise-hit-bydeadly-blaze-lacked-proper-fire-exits-says-official-2014751 (accessed May 18, 2020).
- [44] BBC News, 'Dozens dead in Delhi bag factory fire', BBC News, Dec. 09, 2019.
- [45]K. Thomas, 'Fighting Flames: Is Sri Lanka Doing Enough To Prevent Wildfires?', Sep. 30, 2019. https://roar.media/english/life/in-the-know/fighting-flames-is-sri-lanka-doing-enough-to-prevent-wildfires/ (accessed May 18, 2020).
- [46] The Morning, 'Fire reported at a construction site in Bambalapitiya', *The Morning Sri Lanka News*, Feb. 28, 2020. http://www.themorning.lk/fire-reported-at-a-construction-site-in-bambalapitiya/ (accessed May 18, 2020).
- [47] Hiru News, 'Fire at the Kurunegala hospital caused by a chemical staff evacuated safely', *Hiru News*, Apr. 05, 2020. http://www.hirunews.lk/237996/fire-at-the-kurunegalahospital-caused-by-a-chemical-staff-evacuated-safely (accessed Apr. 30, 2020).
- [48] Y.-S. Lin, C.-H. Lin, and P.-C. Huang, 'Construction of explanatory fire-loss model for buildings', *Fire Saf. J.*, vol. 44, no. 8, pp. 1046–1052, Nov. 2009, doi: 10.1016/j.firesaf.2009.07.005.

- [49] Association of British Insurers, 'Tackling Fire: A Call For Action', Association of British Insurers, Technical Report, Dec. 2009.
- [50]C. Salter, 'Economics of fire: exploring fire incident data for a design tool methodology', thesis, Loughborough University, 2013.
- [51]S. Harisuthan, H. Hasalanka, D. Kularatne, and C. Siriwardana, 'Applicability of the PTVA-4 model to evaluate the structural vulnerability of hospitals in Sri Lanka against tsunami', *Int. J. Disaster Resil. Built Environ.*, vol. ahead-of-print, no. ahead-of-print, Apr. 2020, doi: 10.1108/IJDRBE-01-2020-0001.
- [52]National Disaster Management Authority, Government of India, *National Disaster Management Guidelines: Hospital Safety*. National Disaster Management Authority, Government of India, 2016.
- [53] A. Janati, H. Sadeghi-bazargani, E. Hasanpoor, M. Sokhanvar, E. HaghGoshyie, and A. Salehi, 'Emergency Response of Iranian Hospitals Against Disasters: A Practical Framework for Improvement', *Disaster Med. Public Health Prep.*, vol. 12, no. 02, pp. 166–171, Apr. 2018, doi: 10.1017/dmp.2017.56.
- [54] Caliper corporation, 'Caliper Mapping and Transportation Glossary, Definition, What is a Catchment Area?', *Caliper Mapping and Transportation Software Solutions*. https://www.caliper.com/glossary/what-is-a-catchment-area.htm.
- [55] A. H. Mokdad *et al.*, 'When chronic conditions become acute: prevention and control of chronic diseases and adverse health outcomes during natural disasters', *Prev. Chronic. Dis.*, vol. 2 Spec no, p. A04, Nov. 2005.
- [56] P. S. Nimlyat, A. U. Audu, E. O. Ola-Adisa, and D. Gwatau, 'An evaluation of fire safety measures in high-rise buildings in Nigeria', *Sustain. Cities Soc.*, vol. 35, pp. 774–785, Nov. 2017, doi: 10.1016/j.scs.2017.08.035.
- [57]G. Ramachandran, 'Statistical methods in risk evaluation', *Fire Saf. J.*, vol. 2, no. 2, pp. 125–145, Feb. 1980, doi: 10.1016/0379-7112(79)90039-0.
- [58]G. Loria, N. Choudhry, and K. Sharma, 'Fire management in hospitals', *Apollo Med.*, vol. 9, no. 1, pp. 74–76, Mar. 2012, doi: 10.1016/S0976-0016(12)60125-2.
- [59] T. Wei-Wen, P. Kuo-Hsiung, and H. Che-Ming, 'Performance-based Fire Safety Design for Existing Small-scale Hospitals', *Procedia Eng.*, vol. 11, pp. 514–521, 2011, doi: 10.1016/j.proeng.2011.04.690.
- [60] I. Pal and T. Ghosh, 'Fire Incident At AMRI Hospital, Kolkata (India): A Real Time Assessment For Urban Fire', *J. Bus. Manag.*, vol. 3, no. 2319, p. 6, 2014.
- [61]NDTV, 'Kolkata: 89 killed in AMRI hospital fire; six board members arrested', *NDTV.com*, Dec. 10, 2011.
- [62] The Guardian, 'Moscow psychiatric hospital fire kills 38', The Guardian, Apr. 26, 2013.
- [63] A. Wapling, C. Heggle, V. Murray, J. Bagaria, and C. Philpott, *Review of five London hospital fires and their management*. London, UK: National Health Service (NHS), 2009.
- [64] Daily Mirror Online, 'Fire at Anuradhapura Teaching Hospital', *Daily Mirror*, Nov. 20, 2014.
- [65]NFPA, 'U.S. Structure Fires in Health Care Properties'. National Fire Protection Association, 2017.
- [66] P. P. N. Hoondert, 'State of the art fire safety concept for evacuation of different types of vulnerable patients in Dutch hospitals', Delft University of Technology, Faculty of Architecture and the Built Environment and Building Technology, 2017.
- [67]K. Chowdhury, 'Fires in Indian hospitals: root cause analysis and recommendations for their prevention', J. Clin. Anesth., vol. 26, no. 5, pp. 414–424, Aug. 2014, doi: 10.1016/j.jclinane.2013.12.014.
- [68] China Daily, 'Fire at Beijing Children's Hospital', Jul. 03, 2003.
- [69] Peoples Daily, 'Hospital Fire in Beijing Kills Three People', 2000.
- [70] China Daily, 'Death toll rises to 30 in Shanxi hospital blast', 2006.

- [71]CBS News, '39 Dead In China Hospital Fire', Dec. 16, 2005.
- [72] Asia Times, 'Hospital fire in India kills 22, as many as 100 injured', 2016.
- [73] The New York Times, 'Scores Killed in Kolkata, India, Hospital Fire The New York Times', Dec. 09, 2011.
- [74] The Jakarta Post, '156 patients evacuated from Tangerang hospital as building catches fire', Feb. 26, 2019.
- [75] BBC News, 'Japan hospital fire kills 10 patients and staff', Oct. 11, 2013.
- [76] ABC News, 'Japanese hospital fire caused by patient's operating room flatulence, report finds ABC News (Australian Broadcasting Corporation)', Nov. 02, 2016.
- [77] The Star Online, 'Worker killed in hospital fire', Feb. 16, 2014.
- [78] AP Archive, 'PHILIPPINES: MANILA: 8 PATIENTS DIE IN HOSPITAL FIRE | AP Archive', May 16, 1998.
- [79] AP Archive, 'Fire Burns Philippines Hospital', May 16, 1998.
- [80] BBC News, 'Dozens die in South Korea hospital fire', BBC News, Jan. 26, 2018.
- [81]J. McCurry, 'South Korea hospital fire: dozens dead and many injured', *The Guardian*, Jan. 26, 2018.
- [82]News 1st, 'Rs. 6.3 million robbed from hospital safe during fire', *Newsfirst*, Sri Lanka, Mar. 03, 2019.
- [83]M. Silva, 'Fire breaks out in Lady Ridgeway Hospital for Children', *adaderana.lk*, Sri Lanka, Apr. 21, 2018.
- [84] Daily News, 'Fire erupts at Kalmunai base hospital', Daily News, May 23, 2018.
- [85]Sri Lanka Army, 'Air Force Puts Out Fire at Leprosy Hospital in Manthivu | Sri Lanka Army', 2009. http://www.army.lk/news/air-force-puts-out-fire-leprosy-hospitalmanthivu (accessed Mar. 04, 2020).
- [86] Sri Lanka Mirror, 'Fire engulfs Walasmulla Hospital's medicine stores', Sri Lanka Mirror, Jan. 02, 2018.
- [87]CGTN, 'Nine killed after fire engulfs hospital in Taiwan CGTN', Aug. 13, 2018.
- [88] The New York Times, 'Hospital Blaze in Taiwan Kills 9 and Injures Dozens The New York Times', Aug. 13, 2018.
- [89]NBC News, '30 die in Belarus mental hospital fire', Oct. 12, 2003.
- [90] iklim, '30 dead in Belarus hospital fire'. http://www.iklimnet.com/hotelfires/hs_case4.html (accessed Mar. 04, 2020).
- [91]BBC News, 'Neglect cited over patient's fire death', BBC News, Nov. 09, 2017.
- [92] BBC News, 'Hospital fire victim "failed by NHS"', BBC News, Nov. 30, 2017.
- [93]N. Allen, L. Cockroft, and S. Borland, '£500m Royal Marsden blaze cripples services', Jan. 02, 2008.
- [94] A. O'Leary, 'Fire services called out to blaze at Royal Liverpool Hospital', *liverpoolecho*, Jul. 07, 2015. http://www.liverpoolecho.co.uk/news/liverpool-news/fire-services-calledout-blaze-9601776 (accessed Mar. 07, 2020).
- [95] Liverpool Echo, 'Safety cuts at Broadgreen hospital after blaze', *liverpoolecho*, Jan. 04, 2008. http://www.liverpoolecho.co.uk/news/liverpool-news/safety-cuts-broadgreen-hospital-after-3494234 (accessed Mar. 07, 2020).
- [96]BBC News, 'Woman dies after hospital blaze', Jan. 02, 2008.
- [97] R. Smith and U. Khan, 'Great Ormond Street Hospital fire: Dozens of children evacuated', *The Telegraph*, Sep. 29, 2008.
- [98] A. Davis, 'Patients flee as fire ravages mental hospital', Evening Standard, Oct. 16, 2008.
- [99] J. Rogers, 'How did the Chase Farm Hospital fire start, how many people were evacuated and was anyone injured?', *The Sun*, Jun. 11, 2018.
- [100] iklim, 'FIRE AT EAST HAM MEMORIAL HOSPITAL'. http://www.iklimnet.com/hotelfires/hs_case11.html (accessed Mar. 07, 2020).
- [101] Manchester Evening News, 'Fire causes hospital blackout', men, Jun. 30, 2005.

- [102] E. Barry and A. E. Kramer, 'Fire in Russian Psychiatric Hospital That Killed 38 Stirs Anger Over State's Neglect', *The New York Times*, Apr. 26, 2013.
- [103] The Guardian, 'Fire in Russian psychiatric hospital kills 37', *The Guardian*, Sep. 13, 2013.
- [104] iklim, 'Hospital Fire Claims 21 In the Leningrad Oblast'. http://www.iklimnet.com/hotelfires/hs_case5.html (accessed Mar. 07, 2020).
- [105] iklim, '42 killed in Moscow hospital fire'. http://www.iklimnet.com/hotelfires/hs_case18.html (accessed Mar. 07, 2020).
- [106] BBC News, 'Fire kills 12 premature babies in Iraq', *BBC News*, Aug. 10, 2016.
- [107] NDTV, '5 Dead In Saudi Hospital Fire: Civil Defence', *NDTV.com*, Dec. 24, 2015.
- [108] BBC News, 'Saudi hospital fire kills at least 25', *BBC News*, Dec. 24, 2015.
- [109] iklim, 'Costa Rica hospital fire kills 18'. http://www.iklimnet.com/hotelfires/hs_case1.html (accessed Mar. 07, 2020).
- [110] iklim, 'Southside Regional Medical Center, Fire'. http://www.iklimnet.com/hotelfires/hs_case6.html (accessed Mar. 07, 2020).
- [111] iklim, 'Fire At St. Andrews Hospital on Halloween Extinguished Quickly and Safely'. http://www.iklimnet.com/hotelfires/hs_case9.html.
- [112] iklim, 'Batteries possible cause of hospital fire, El Camino Hospital'. http://www.iklimnet.com/hotelfires/hs_case15.html (accessed Mar. 07, 2020).
- [113] iklim, 'Fire Erupts In Hospital'. http://www.iklimnet.com/hotelfires/hs_case17.html (accessed Mar. 07, 2020).
- [114] iklim, 'Fatal Fire Ignites in a VA Hospital Room'. http://www.iklimnet.com/hotelfires/hs_case10.html (accessed Mar. 07, 2020).
- [115] iklim, 'Sheppard Pratt Hospital Building'. http://www.iklimnet.com/hotelfires/hs_case13.html (accessed Mar. 07, 2020).
- [116] ABC News, 'St John of God Hospital Fire: Patients transferred as blaze forces Perth hospital evacuation', *ABC News*, Nov. 02, 2016. https://www.abc.net.au/news/2016-11-02/fire-forces-mount-lawley-hospital-evacuation-patients-moved/7987340 (accessed Mar. 07, 2020).
- [117] M. D. P. K. Gunathilaka, 'Evaluation of Overall Fire Performance of Hospitals in Sri Lanka', University of Moratuwa, Moratuwa, Sri Lanka, 2018.
- [118] D. Kularatne, 'Evaluation of World Health Organization's Hospital Safety Index Guide for Sri Lanka', University of Moratuwa, 2018.
- [119] D. Kularatne, C. Siriwardana, and H. Hasalanka, 'Investigating the Resilience of Critical Systems of Tertiary Hospitals in Sri Lanka', presented at the International Conference on Capacity Building for Research and Innovation in Disaster Resilience 2019, Jan. 2019.
- [120] N. L. Munasinghe and K. Matsui, 'Examining disaster preparedness at Matara District General Hospital in Sri Lanka', *Int. J. Disaster Risk Reduct.*, p. 101154, Apr. 2019, doi: 10.1016/j.ijdrr.2019.101154.
- [121] M. L. Carreño, O. D. Cardona, and A. H. Barbat, 'A disaster risk management performance index', *Nat. Hazards*, vol. 41, no. 1, pp. 1–20, Apr. 2007, doi: 10.1007/s11069-006-9008-y.
- [122] N. W. Chan, 'Impacts of Disasters and Disaster Risk Management in Malaysia: The Case of Floods', in *Resilience and Recovery in Asian Disasters*, D. P. Aldrich, S. Oum, and Y. Sawada, Eds. Tokyo: Springer Japan, 2015, pp. 239–265.
- [123] A. Maskrey, 'Revisiting community-based disaster risk management', *Environ. Hazards*, vol. 10, no. 1, pp. 42–52, Mar. 2011, doi: 10.3763/ehaz.2011.0005.
- [124] Project Management Institute, Ed., A guide to the project management body of knowledge (PMBOK guide), Fifth edition. Newtown Square, Pennsylvania: Project Management Institute, Inc, 2013.

- [125] M. Williams, *The principles of project management*. Collingwood; Farnham: SitePoint, 2008.
- [126] Great Britain and Health and Safety Executive, *Fire safety: an employer's guide*. London: Stationery Office, 1999.
- [127] B. Singh, 'Risk Management in Hospitals', *Int. J. Innov. Manag. Technol.*, vol. 3, no. 4, 2012, doi: 10.7763/IJIMT.2012.V3.266.
- [128] A. Aitsi-Selmi, S. Egawa, H. Sasaki, C. Wannous, and V. Murray, 'The Sendai Framework for Disaster Risk Reduction: Renewing the Global Commitment to People's Resilience, Health, and Well-being', *Int. J. Disaster Risk Sci.*, vol. 6, no. 2, pp. 164–176, Jun. 2015, doi: 10.1007/s13753-015-0050-9.
- [129] D. Bennett, B. Phillips, and E. Davis, 'The Future of Accessibility in Disaster Conditions: How Wireless Technologies Will Transform The Life Cycle Of Emergency Management', 2016.
- [130] H. Hasalanka, C. Siriwardana, N. Wijesekara, and L. Kodituwakku, 'Development of a tool to assess structural safety of Sri Lankan hospitals under disaster conditions', presented at the International Conference on Sustainable Built Environment, 2018.
- [131] A. Arenas *et al.*, *National post-disaster recovery planning and coordination*. New York: United Nations Development Programme (UNDP), 2016.
- [132] H. Hasalanka, D. Kularatne, C. Siriwardana, N. Wijesekara, and L. Kodituwakku, 'A Framework to Develop Multi-Hazard Maps to Identify the Natural Hazards which Affect the Safety of Sri Lankan Hospitals', in 2019 Moratuwa Engineering Research Conference (MERCon), Moratuwa, Sri Lanka, Jul. 2019, pp. 418–423, doi: 10.1109/MERCon.2019.8818863.
- [133] H. Hasalanka, C. Siriwardana, and D. Kularatne, 'Development of a Hospital Safety Assessment for Tsunami in the Sri Lankan Context', presented at the International Conference on Structural Engineering and Construction Management, Kandy, Sri Lanka, Dec. 2019.
- [134] H. Hasalanka, C. S. A. Siriwardana, D. Kularatne, and W. P. S. Dias, 'Development of a Structural Robustness Index against tsunamis for hospitals', *Civ. Eng. Environ. Syst.*, pp. 1–17, Feb. 2021, doi: 10.1080/10286608.2021.1890045.
- [135] M. H. Curtis and S. F. Sawyer, Eds., *NFPA 1 Fire Code Handbook*, 5th ed. Quincy, Massachusetts: National Fire Protection Association, 2009.
- [136] M. Green, J. Joinson, and British Standards Institution, *The BS 9999 handbook: effective fire safety in the design, management and use of buildings.* London: BSI, 2010.
- [137] Bureau of Indian Standards, 'Fire and Life Safety', in National Building Code of India, 2016.
- [138] International Finance Corporation, 'Good Practice Note IFC Life and Fire Safety: Hospitals'. 2017.
- [139] Department of Health, Great Britain, *Firecode fire safety in the NHS*. London: Stationery Office, 2008.
- [140] Construction Industry Development Authority, *Fire Regulations*, 3rd ed. Sri Lanka: Construction Industry Development Authority, 2018.
- [141] Construction Industry Development Authority, *Specifications for fire detection*, *protection and suppression systems*, 1st ed. Ministry of Housing and Construction, 2015.
- [142] C. Salter, G. Ramachandran, S. Emmitt, and N. Bouchlaghem, 'Economic cost of fire: Exploring UK fire incident data to develop a design tool', *Fire Saf. J.*, vol. 62, pp. 256–263, Nov. 2013, doi: 10.1016/j.firesaf.2013.09.018.
- [143] GFDRR, *Guide to developing disaster recovery frameworks*. Global Facility for Disaster Reduction and Recovery (GFDRR), 2015.
- [144] UNDP, *Methodological guide for post-disaster recovery planning processes*. Ecuador: United Nations Development Programme (UNDP), 2011.

- [145] Ministry of National Policies and Economic Affairs and Ministry of Disaster Management, Post-disaster recovery plan for the floods and landslides of May 2017. 2017.
- [146] Partnership for disaster resilience, *Post-disaster recovery planning forum: how-to guide*. Oregon: University of Oregon's Community Service Centre, 2007.
- [147] S. S. Spieler, M. P. Singer, and L. Cummings, 'Emergency Preparedness in Public Hospitals': National Association of Public Hospitals and Health Systems, May 2008.
- [148] United Nations Development Programme, 'Guidelines for Hospital Emergency Preparedness Planning'. Government of India, 2008.
- [149] Occupational Safety and Health Administration, 'Hospitals and Community Emergency Response: What you need to know'. U.S. Department of Labor, 2008.
- [150] E. Belmont, B. M. Fried, J. S. Gonen, A. M. Murphy, J. M. Sconyers, and S. F. Zinder, 'Emergency Preparedness, Response & Recovery Checklist Beyond the Emergency Management Plan', in *Hospital Preparation for Bioterror*, Elsevier, 2006, pp. 295–331.
- [151] B. Sund, C. Bonander, N. Jakobsson, and H. Jaldell, 'Do home fire and safety checks by on-duty firefighters decrease the number of fires? Quasi-experimental evidence from Southern Sweden', J. Safety Res., vol. 70, pp. 39–47, Sep. 2019, doi: 10.1016/j.jsr.2019.04.006.
- [152] British Standards Institution, BS 5839-1:2017 -Fire detection and fire alarm systems for buildings. Code of practice for design, installation, commissioning and maintenance of systems in non-domestic premises. 2017.
- [153] British Standards Institution, BS 5839-6:2019 Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises. 2019.
- [154] National Fire Protection Association and American National Standards Institute, NFPA 72 National fire alarm and signaling code. 2018.
- [155] R. Rustein and R. Cooke, 'The Value of Fire Protection in Buildings', Home Office: Scientific Research and Development Branch, Technical Report Publication 70/83, 1983.
- [156] British Standards Institution, BS EN 12845:2015+A1:2019 Fixed firefighting systems. Automatic sprinkler systems. Design, installation and maintenance. 2015.
- [157] National Fire Protection Association, *NFPA 13 Standard for the installation of sprinkler systems*. National Fire Protection Association, 2016.
- [158] British Standards Institution, 'Portable fire extinguishers', BSI British Standards. doi: 10.3403/BSEN3.
- [159] National Fire Protection Association, NFPA 10 Standard for portable fire extinguishers. 2018.
- [160] KMI Fire Protection Services, 'Hose Reels System in Sri Lanka'. http://www.kmifireprotection.com/hose-reels-system.html (accessed Apr. 06, 2020).
- [161] British Standards Institution, BS EN 671-1:2012 Fixed firefighting systems. Hose systems. Hose reels with semi-rigid hose. 2012.
- [162] National Fire Protection Association, NFPA 14 Standard for the installation of standpipe and hose systems. 2015.
- [163] Alberta Group, 'What is a fire blanket and how does it work?', *Alberta*. https://www.alberta.com.mt/faqs/what-is-a-fire-blanket-and-how-does-it-work/ (accessed Apr. 06, 2020).
- [164] British Standards Institution, BS EN 14384:2005 Pillar fire hydrants. 2006.
- [165] British Standards Institution, BS 476-22:1987 Fire tests on building materials and structures —Methods for determination of the fire resistance of non-loadbearing elements of construction. 2014.

- [166] British Standards Institution, BS 5588, Fire precautions in the design, construction and use of buildings, Part 11: Code of practice for shops, offices, industrial, storage and other similar buildings. London, UK, 1997.
- [167] Pan American Health Organization and World Health Organization Regional Office for the Americas, *Hospitals Don't Burn! Hospital Fire Prevention and Evacuation Guide*. Washington, D.C., 2018.
- [168] Singapore Civil Defence Force, 'Clause 2.3 Means of Escape Requirements', SCDF, 2020. https://www.scdf.gov.sg/firecode/table-of-content/chapter-2-means-ofescape/clause-2.3 (accessed Apr. 07, 2020).
- [169] H. Hai-yun, 'Research on Standardization Method of Risk Assessment for Fire Public Liability Insurance in Assembly Occupancies and Underwriting Auditing', *Procedia Eng.*, vol. 11, pp. 120–126, 2011, doi: 10.1016/j.proeng.2011.04.636.
- [170] N. M. Samsuddin, R. Takim, A. H. Nawawi, and S. N. A. Syed Alwee, 'Disaster Preparedness Attributes and Hospital's Resilience in Malaysia', *Procedia Eng.*, vol. 212, pp. 371–378, 2018, doi: 10.1016/j.proeng.2018.01.048.
- [171] J. Marion, 'ECRI identifies top 10 health technology hazards for 2010', *Healthcare IT News*, Dec. 02, 2009. https://www.healthcareitnews.com/news/ecri-identifies-top-10-health-technology-hazards-2010 (accessed Apr. 30, 2020).
- [172] S. S. Harrington and B. L. Walker, 'Is computer-based instruction an effective way to present fire safety training to long-term care staff?', vol. 9, no. 3, pp. 147–154, 2003.
- [173] J. E. Driskell and E. Salas, Eds., *Stress and human performance*. Mahwah, N.J: Lawrence Erlbaum Associates, 1996.
- [174] R. Phillips, 'Fire prevention: Improving staff readiness', Nurs. Homes, vol. 43, no. 6, pp. 31–33, 1994.
- [175] G. Proulx, 'Occupant behavior and evacuation', in *Proceedings of the 9th International Fire Protection Symposium*, 1993, vol. 3, pp. 21–41.
- [176] D. Cassidy, 'Involving the staff in fire safety', Nurs. Homes Sr. Citiz. Care, vol. 40, no. 5, pp. 15–18, 1991.
- [177] J. Leach, 'Cognitive paralysis in an emergency: the role of the supervisory attentional system', *Aviat. Space Environ. Med.*, vol. 76, no. 2, pp. 134–136, 2005.
- [178] J. Leach, 'Why people "freeze" in an emergency: temporal and cognitive constraints on survival Responses', *Aviat. Space Environ. Med.*, vol. 75, no. 6, pp. 539–542, 2004.
- [179] C. DiGuiseppi *et al.*, 'Incidence of fires and related injuries after giving out free smoke alarms: Cluster randomised controlled trial', *Br. Med. J.*, vol. 325, no. 7371, p. 995, 2002.
- [180] I. Huseyin and L. Satyen, 'Fire safety training: Its importance in enhancing fire safety knowledge and response to fire', *Aust. J. Emerg. Manag.*, vol. 21, no. 4, pp. 48–53, Nov. 2006.
- [181] National Fire Protection Association (NFPA), 'Reducing the number of deaths and injuries from residential fires', *Am. Acad. Pediatr.*, vol. 105, no. 6, pp. 1355–1357, 2000.
- [182] S. R. Hart, A. Yaknik, J. Ashford, R. Springer, and S. Harvey, 'Operating Room Fire Safety', Ochsner J., vol. 11, no. 1, pp. 37–42, 2011.
- [183] G. Proulx, 'Playing With Fire: Understanding Human Behavior in burning Buildings', Am. Soc. Heat. Refrig. Air-Cond. Eng. ASHRAE J., vol. 45, no. 7, pp. 33–35, Sep. 2003.
- [184] G. Robotham, 'Safety training that works', *Prof. Saf.*, vol. 46, no. 5, p. 33, 2001.
- [185] A. H. Kaji and R. J. Lewis, 'Hospital Disaster Preparedness in Los Angeles County', *Acad. Emerg. Med.*, vol. 13, no. 11, pp. 1198–1203, Nov. 2006, doi: 10.1197/j.aem.2006.05.007.
- [186] P. Brennan, 'Victims and survivors in fatal residential building fires', *Fire Mater.*, vol. 23, pp. 305–310, 1999.

- [187] S. Mallonee *et al.*, 'Surveillance and prevention of residential fire injuries', *N. Engl. J. Med.*, vol. 335, no. 1, pp. 27–31, 1996.
- [188] W. K. Chow, 'Review on fire safety management and application to Hong Kong', *Int. J. Eng. Perform.-Based Fire Codes*, vol. 3, no. 1, pp. 52–58, 2001.
- [189] G. Proulx and I. M. A. Reid, 'Occupant Behavior and Evacuation during the Chicago Cook County Administration Building Fire', J. Fire Prot. Eng., vol. 16, no. 4, pp. 283– 309, Nov. 2006, doi: 10.1177/1042391506065951.
- [190] C. Subramaniam, 'Human factors influencing fire safety measures', *Disaster Prev. Manag. Int. J.*, vol. 13, no. 2, pp. 110–116, Apr. 2004, doi: 10.1108/09653560410534243.
- [191] British Standards Institution, BS ISO 3864-1:2011 Graphical symbols. Safety colours and safety signs. Design principles for safety signs and safety markings. 2011.
- [192] C. DiGuiseppi, C. W. Goss, and J. P. T. Higgins, 'Interventions for promoting smoke alarm ownership and function', *Cochrane Database Syst. Rev.*, no. 2, 2001.
- [193] V. M. Ta, S. Frattaroli, G. Bergen, and A. C. Gielen, 'Evaluated community fire safety interventions in the United States: A review of current literature', *J. Community Health*, vol. 31, pp. 176–197, 2006.
- [194] K. W. Tannous *et al.*, 'Home Fire Safety Checks in New South Wales: an economic evaluation of the pilot program', *J. Risk Res.*, vol. 21, no. 8, pp. 1052–1067, Aug. 2018, doi: 10.1080/13669877.2017.1281336.
- [195] K. W. Tannous *et al.*, 'Using a cluster randomized controlled trial to determine the effects of intervention of battery and hardwired smoke alarms in New South Wales, Australia: Home fire safety checks pilot program', *J. Safety Res.*, vol. 56, pp. 23–27, 2016.
- [196] N. Williams, R. Evans, A. Rogers, and M. Wright, 'Final Evaluation of the Home Fire Risk Check Grant and Fire Prevention Grant Programmes', Department for Communities and Local Government, Fire Research 2/2009, 2009.
- [197] J. Clare, L. Garis, D. Plecas, and C. Jennings, 'Reduced frequency and severity of residential fires following delivery of fire prevention education by onduty fire fighters: Cluster randomized controlled study', J. Safety Res., vol. 43, pp. 123–128, 2012.
- [198] P. N. R. Fernando, 'Applicable fire regulations and role of CMC fire service department in mitigating fire risk', 2019, [Online]. Available: https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=5&cad=rja&uac t=8&ved=2ahUKEwiaqs_brqHpAhUuyDgGHVOXBQYQFjAEegQIBRAB&url=http% 3A%2F%2Fwww.ccisrilanka.org%2Fwpcontent%2Fuploads%2F2019%2F02%2FApplicable-Fire-Regulations-Role-of-CMC-

Fire.pdf&usg=AOvVaw2deo7zB9ugMFV4oNXTvr74.

- [199] ESRI, 'GIS for Fire Station Locations and Response Protocol', p. 31, 2007.
- [200] NFPA, 'NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments'. 2004, [Online]. Available: http://www.niordc.ir/uploads/nfpa_1710_-_2004.pdf.
- [201] Google, 'CMC Fire Service Department to National Hospital of Sri Lanka'. https://goo.gl/maps/7ivYiqrhRzCZQycg8.
- [202] Google, 'Gampaha Fire Brigade to District General Hospital Gampaha'. https://goo.gl/maps/CGqqGWsiDJzKALKC8.
- [203] Google, 'Fire Brigade and Department to Colombo South Teaching Hospital Kalubowila'. https://goo.gl/maps/hWgYXD65vjRgMTF66.
- [204] Google, 'Mawanella Municipal Council Fire Service Department to Teaching Hospital Kegalle'. https://www.google.com/maps/dir/Mawanella+Pradeshiya+Sabha,+Mawanella/Kegalle+ Hospital,+Bandaranayaka+Avenue,+Kegalle/@7.251166,80.3631561,13z/data=!4m14!4 m13!1m5!1m1!1s0x3ae31355663fe5a3:0x89e289832d2ffc13!2m2!1d80.4527392!2d7.2

504391!1m5!1m1!1s0x3ae3114ac2f36391:0xcd845af9e0141b2e!2m2!1d80.3452533!2d 7.2477674!3e0.

- [205] 'Sample Size Calculator: Understanding Sample Sizes', *SurveyMonkey*. https://www.surveymonkey.com/mp/sample-size-calculator/ (accessed May 15, 2020).
- [206] FEMA, 'After the Fire'. U.S. Fire Administration, Jan. 2019.
- [207] C. Corbitt-Dipierro, 'Fatalities at the fire scene: simple steps for strong results', *inter fire online*. http://www.interfire.org/features/fatalities.asp (accessed Nov. 08, 2019).
- [208] C. S. A. Siriwardana, G. P. Jayasiri, and S. S. L. Hettiarachchi, 'Investigation of efficiency and effectiveness of the existing disaster management frameworks in Sri Lanka', *Procedia Eng.*, vol. 212, pp. 1091–1098, 2018, doi: 10.1016/j.proeng.2018.01.141.
- [209] WHO and PAHO, *Hospital Safety Index Guide for Evaluators*, 2nd ed. World Health Organization, 2015.
- [210] H. H. H. Hasalanka, C. S. A. Siriwardana, N. W. A. N. Y. Wijesekara, and K. A. L. C. Kodituwakku, 'Development of a tool to assess structural safety of Sri Lankan hospitals under disaster conditions', presented at the International Conference on Sustainable Built Environment, 2018.
- [211] W. D. M. Kularatne, C. S. A. Siriwardana, and H. H. H. Hasalanka, 'Investigation of emergency and disaster management of hospitals in Sri Lanka; a pilot study', presented at the International Conference on Sustainable Built Environment, Kandy, Sri Lanka, Dec. 2018.
- [212] D. Guha-Sapir, P. Hoyois, P. Wallemacq, and R. Below, 'Annual Disaster Statistical Review 2016: The numbers and trends', Centre for Research on the Epidemiology of Disasters (CRED), Institute of Health and Society (IRSS), Université catholique de Louvain – Brussels, Belgium, 2016.
- [213] G. P. Jayasiri, C. S. A. Siriwardena, S. S. L. Hettiarachchi, P. B. R. Dissanayake, and C. S. Bandara, 'Evaluation of Community Resilience Aspects of Sri Lankan Coastal Districts', *Int. J. Adv. Sci. Eng. Inf. Technol.*, vol. 8, no. 5, pp. 2161–2167, Oct. 2018, doi: 10.18517/ijaseit.8.5.7095.
- [214] *National Disaster Management Guidelines: Hospital Safety (India)*. National Disaster Management Authority, Government of India, 2016.
- [215] A. Janati, H. Sadeghi-bazargani, E. Hasanpoor, M. Sokhanvar, E. HaghGoshyie, and A. Salehi, 'Emergency Response of Iranian Hospitals Against Disasters: A Practical Framework for Improvement', *Disaster Med. Public Health Prep.*, vol. 12, no. 02, pp. 166–171, Apr. 2018, doi: 10.1017/dmp.2017.56.
- [216] Disaster Preparedness and Response Division, 'Floods and Landslides May 2017 Sri Lanka, Post Disaster Needs, Assessment, Health Sector', Sri Lanka: Ministry of Health, Nutrition & Indigenous Medicine, 2017.
- [217] Disaster Preparedness and Response Division, 'Journey of Resilience, 2016', Sri Lanka: Ministry of Health, Nutrition & Indigenous Medicine, 2016.
- [218] T. Kanakarathna, '6% increase in New Year accidents: CNH', *Daily Mirror*, Jan. 01, 2018.
- [219] C. Pradeep and W. Chandrapala, '3 dies, 205 hospitalized from food poisoning in Ampara', *Daily Mirror*, Jul. 04, 2017.
- [220] WHO, 'World Health Organization: Countries: Sri Lanka', 2018. http://www.who.int/countries/lka/en/.
- [221] Z. Lapčević, S. Mandić-Rajčević, M. Lepić, and M. Jovanović, 'Evaluating a primary healthcare centre's preparedness for disasters using the hospital safety index: Lessons learned from the 2014 floods in Obrenovac, Serbia', *Int. J. Disaster Risk Reduct.*, vol. 34, pp. 436–442, Mar. 2019, doi: 10.1016/j.ijdtr.2018.12.014.

- [222] N. L. Munasinghe and K. Matsui, 'Examining disaster preparedness at Matara District General Hospital in Sri Lanka', *Int. J. Disaster Risk Reduct.*, p. 101154, Apr. 2019, doi: 10.1016/j.ijdrr.2019.101154.
- [223] K. Jayawardhane, 'One killed in elevator mishap at Gampaha Hospital', *Daily Mirror*, Aug. 03, 2018.
- [224] British Broadcasting Corporation, 'Dozens die in South Korea hospital fire', *BBC News*, Jan. 26, 2018.
- [225] J. S. March, L. Amaya-Jackson, R. Terry, and P. Costanzo, 'Posttraumatic symptomatology in children and adolescents after an industrial fire', J. Am. Acad. Child Adolesc. Psychiatry, vol. 36, no. 8, p. 1080, 1997.
- [226] Ada Derana, 'Cause of Kurunegala Hospital drug storage fire uncovered', Apr. 05, 2020. http://www.adaderana.lk/news/62296/cause-of-kurunegala-hospital-drug-storage-fire-uncovered (accessed Apr. 30, 2020).
- [227] Ministry of Health and Indigenous Medical Services Sri Lanka, 'Summary of Government Hospitals', *Ministry of Health and Indigenous Medical Services Sri Lanka*, Dec. 01, 2019. http://www.health.gov.lk/moh_final/english/others.php?pid=92 (accessed Jun. 10, 2020).