REFERENCES

1. International Civil Aviation Organization. (2019). *Annual Report 2019*. https://www.icao.int/annual-report-2019/Pages/the-world-of-air-transport-in-2019.aspx

2. Gelhausen, M. C., Berster, P., & Wilken, D. (2021). Post-COVID-19 Scenarios of Global Airline Traffic until 2040 That Reflect Airport Capacity Constraints and Mitigation Strategies. *Aerospace, 8*(10), 300. https://doi.org/10.3390/aerospace8100300

3. International Civil Aviation Organization. (2015). *Impact of Air Cargo Services on Economic Development*. https://www.icao.int/Security/aircargo/Documents/AirCargo_EconomicDevelopment.pdf

4. Yin, K., Tian, C., Wang B. X. & Quadrifoglio, L. (2012). Analysis of Taxiway Aircraft Traffic at George Bush Intercontinental Airport, Houston, Texas. *Transportation Research Record: Journal of the Transportation Research Board*, 2266(1), 85-94. https://doi.org/10.3141/2266-10

5. International Air Transport Association. (2015). *Airlines – Airport Expansion*. https://airlines.iata.org/analysis/airport-expansion-bright-thinking

6. Airports Commission. (2015). Final Report. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/440316/airports-commission-final-report.pdf

7. Dray, L. (2012). An empirical analysis of airport capacity expansion. *Journal of Air Transport Management*. https://doi.org/10.3141/2266-10 https://doi.org/10.1016/j.jairtraman.2020.101850

8. ICAO Aerodrome Design Manual, 2005, Taxiways, Aprons and Holding Bays. https://www.academia.edu/41316519/Doc_9157_Aerodome_design_manual_part_2_taxiway_up_date.

9. Clemmer, C. B. (2018). Determining the Location of Runway Exits Using Airport Surface Detection Equipment [Master's thesis, The Embry-Riddle Aeronautical University]. https://commons.erau.edu/cgi/viewcontent.cgi?article=1420&context=edt

10. www.airservicesaustralia.com/wp-content/uploads/Melbourne-Runway-Occupancy-Time.pdf.

11. Shukla, A. (2021). Riga International Airport completes rapid-exit taxiway construction project. Airport Technology. https://www.airport-technology.com/news/riga-taxiway-construction-project/

12. International Civil Aviation Organization. (2020). *Safety Report 2020*. https://www.icao.int/safety/Documents/ICAO_SR_2020_final_web.pdf

13. Hall, J., Ayres, M., Wong, D., Appleyard, A., Eddowes, M., & Shirazi, H. (2008). *Analysis of Aircraft Overruns and Undershoots for Runway Safety Areas*. Airport Cooperative Research Program Report 3. Transportation Research Board, Washington, D.C. https://www.icao.int/SAM/Documents/2011/AGAASEROSTUDIES/ACRP_rpt_003.pdf .

14. International Civil Aviation Organization. (2018). *Runway and Ground Safety Working Group - Fifth meeting (RGS WG/5)*. https://www.icao.int/MID/Documents/2018/RGS%20WG5/RGS%20WG5-WP7-%20Runway%20Safety%20Priorities%20and%20Analysis%20in%20the%20MID%20Region.pdf

15. Federal Aviation Administration. (2020). *Draft Advisory Circular, Airport Design* (FAA AC 150/5300-13B). Unpublished document. https://www.faa.gov/documentLibrary/media/Advisory_Circular/draft-150-5300-13B-industry.pdf

16. Hall, J., Ayres, M., Shirazi, H., Speir, R., Carvalho, R., & David, R. (2011). *Risk Assessment Method to Support Modification of Airfield Separation Standards*. Airport Cooperative Research Program Report 51. Transportation Research Board, Washington, D.C.

17. Scholz, F., (2003). *Statistical Extreme Value Analysis of ANC Taxiway Centerline Deviations for 747 Aircraft*. The Boeing Company, Chicago.

18. ICAO Aerodrome Design Manual, 2005, Aerodrome manual taxiway design.

19. Trani, A. A., Hobeika, A. G., Sherali, H. D., Kim, B. J., & Sadam, C. K. (1990). *Runway Exit Designs for Capacity Improvement Demonstrations.* Algorithm Development Phase I. Virginia Polytechnic Institute and State University, Center for Transportation Research, Blacksburg, Virginia.

20. Trani, A. A., Hobeika, A. G., Kim, B. J., Nunna, V., & Zhong, C. (1992). *Runway Exit Designs for Capacity Improvement Demonstrations.* Computer Model Development Phase II. Virginia Polytechnic Institute and State University, Center for Transportation Research, Blacksburg, Virginia.

21. Boeing. (2021). Statistical Summary of Commercial Jet Airplane Accidents – Worldwide Operations 1959-2000. https://skybrary.aero/articles/boeing-annual-summary-commercial-jet-airplane-accidents

22. International Air Transport Association. (2017). *Safety Report 2016*. https://skybrary.aero/sites/default/files/bookshelf/3875.pdf

23. Guerra, L., Murino, T., & Romano, E. (2008) Airport system analysis: a probabilistic risk assessment model. *International Journal of Systems Applications, Engineering & Development*, 2(2): 52–65.

24. SKYbrary. (2020). Accidents and Incidents. https://www.skybrary.aero/index.php/Category:Accidents_and_Incidents.

25. Federal Aviation Administration. (2007). *Incorporation of Runway Incursion Prevention into Taxiway and Apron Design – Memorandum* (Engineering Brief No. 75). https://www.faa.gov/airports/engineering/engineering_briefs/media/eb-75.pdf.

26. Grabowski, J. G., Baker, S.P., & Li, G. (2005). Ground crew injuries and fatalities in U.S. Commercial aviation, 1983-2004. *Aviation, Space, and Environmental Medicine*, 76(11), 1007-1011

27. Van Es, G. W. H. (2008). *Running of runway - Analysis of 35 years of landing overrun accidents*. NLR Report-TP-2005-498. National Aerospace Laboratory, Netherlands. http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.967.9604&rep=rep1&type=pdf

28. Ayres, M., Carvalho, R., Shirazi, H., & David, R. (2014). *Development of a Runway Veer-Off Location Distribution Risk Assessment and Reporting Template*. Airport Cooperative Research Program Report 107. Transportation Research Board, Washington, D.C. https://www.nap.edu/download/22411.

29. Johnson, M. E, Zhao, X., Faulkner, B., Young, J. (2016). Statistical Models of Runway Incursions Based on Runway Intersections and Taxiways. *Journal of Aviation Technology and Engineering*, 5 (2), 15-16. doi: 10.7771/2159-6670.112

30. Transportation Safety Board (TSB) of Canada. (2019). *Air Transportation Safety Issue Investigation Report A17O0038*. https://www.bst-tsb.gc.ca/eng/rapports-reports/aviation/2017/a17o0038/a17o0038.html?wbdisable =true

31. Charles, D., & Elbert, A. (2017). *Preventing Runway Collisions*. In Flight Safety Foundation (Ed), Proceedings of the 5th Annual Safety Forum (pp 42-45). Brussels. https://skybrary.aero/bookshelf/books/3677.pdf.

32. Prinzel, L. L., & Jones, D. R., (2007). *Cockpit Technology for the Prevention of General Aviation Runway Incursions*. In Proceedings of the International Symposium on Aviation Psychology (pp 546-551). https://corescholar.libraries.wright.edu/cgi/viewcontent.cgi?article=1094&context=isap_2007

33. Federal Aviation Administration. (2014). *Critical Aircraft and Regular Use Determination* (150/5000-17). https://www.faa.gov/documentLibrary/media/Advisory_Circular/150-5000-17-Critical-Aircraft.pdf

34. Feng, C., & Chung, C. (2013). Assessing the Risks of Airport Airside through the Fuzzy Logic-Based Failure Modes, Effect, and Criticality Analysis. *Mathematical Problems in Engineering*. http://dx.doi.org/10.1155/2013/239523

35. Silva, A. & de Barros, A.G.(2015) Quantitative Risk Evaluation of Obstacle Limitation Surfaces for Final Approaches at Airports. Journal of Aviation Technology and Engineering Vol. 5 Issue 2, Article 5. https://doi.org/10.7771/2159-6670.1110

36. ICAO Design Manual, 2012, Safety Management Manual.

37. Kirkland, I. D. (2001). *The Risk Assessment of Aircraft Runway Overrun Accidents and Incidents*. [Doctoral thesis, The Loughborough University] https://repository.lboro.ac.uk/articles/The_risk_assessment_of_aircraft_runway_overrun_accidents_and_incidents/9456605.

38. Wong K.Y. (2007). *The Modelling of Accident Frequency Using Risk Exposure Data for the Assessment of Airport Safety Areas*, [Doctoral thesis, The Loughborough University]. The Loughborough University. https://core.ac.uk/download/pdf/288389973.pdf.

39. Ayres, M., Shirazi, H., Carvalho, R., Hall, J., Speir. R. & Arambula. E. (2011). Improved Models for Risk Assessment of Runway Safety Areas. Airport Cooperative Research Program Report 50. Transportation Research Board, Washington D.C.

40. Jeon, J., Song, J., Kim, H., & Song B. (2016). Research on the Advanced Risk Assessment of Runway Safety Areas with Enhanced Algorithm. *International Journal of Scientific Engineering and Technology*, 5(1), 67-70. doi: 10.17950/ijset/v5s1/114.

41. Shirazi, H., Hall, J., Williams, B., Moser, S., Boswel, D., & Hardy, M. (2016). *Runway Protection Zones(RPZ) Risk Assessment Tool Users' Guide*. Airport Cooperative Research Program Report 168. Transportation Research Board, Washington D.C. https://www.nap.edu/download/24662.

42. Moretti, L., Cantisani, G., & Caro, S. (2017). Airport Veer-off Risk Assessment: An Italian Case Study. *Asian Research Publishing Network (APRN) Journal of Engineering and Applied Sciences,* 12(3), 900–912.

43. Moretti, L., Mascio, P., Nichele. S., & Cokorilo, O. (2018). Runway veer-off accidents: Quantitative risk assessment and risk reduction measures. *Safety Science*, 104, 157-163. https://doi.org/10.1016/j.ssci.2018.01.010

44. Mascio, P., Cosciotti, M., Fusco, R., & Moretti, L. (2020). Runway Veer-Off Risk Analysis: An International Airport Case Study. *Sustainability*, 12(22), 9360. https://doi.org/10.3390/su12229360

45. Trucco, P., Ambrogg, M., & Leva, M.C. (2015). Topological risk mapping of runway overruns: A probabilistic approach. *Reliability Engineering and System Safety*, 142, 433-443. https://doi.org/10.1016/j.ress.2015.06.006

46. Salih, A. A. A., & Zhahir, A. (2013). Design of a high accurate aircraft ground-based landing system, International Journal of Engineering Trends and Technology, 4(3), 415-429. http://www.ijettjournal.org/archive/ijett-v4i3p237

47. Engineering Sciences Data Unit. (2008). *Example of risk analysis applied to aircraft landing distance* (ESDU 08005). The Royal Aeronautical Society.

48. Aeroports De Paris. *Aeronautical Study from Aeroports De Paris on Runway and Shoulder Width*.

49. Romano, E., *Airport Risk Assessment. A Probabilistic Approach*. Department of Transportation Engineering "L. Tocchetti" – Naples

50. Eddowes, M., (2001). *Final Report on the Risk Analysis in Support of Aerodrome Design Rules.* The Norwegian Civil Aviation Authority.

51. Flight Safety Foundation. (2016). *Approach and landing Accident Reduction Tool Kit*. https://flightsafety.org/files/alar_bn8-3-distances.pdf

52. Zhou, H., & Jiang, X. (2015). Research on Taxiway Path Optimization Based on Conflict Detection. *PLoS One,* 10(7). Doi; 10.1371/journal.pone.0134522.

53. Young, S., (2015). *Centerline Deviations. Center for Aviation Studies*. The OHIO State University, Columbus.

54. Green, L. L., (2013). Analysis of Runway Incursion Data. NASA Langley Research Center, Hampton, Virginia. https://ntrs.nasa.gov/api/citations/20150018913/downloads/20150018913.pdf

55. Schonefeld, J., (2012). Moller, D. Runway incursion prevention systems: A review of runway incursion avoidance and alerting system approaches. Progress in Aerospace Sciences, 51, 31 -49. doi: 10.1016/j.paerosci.2012.02.002

56. Federal Aviation Administration. (2008). *FAA needs to improve ASDE-X Management Controls to Address Cost Growth, Schedule Delays, and Safety Risks - Report AV-2008-*

004. https://www.oig.dot.gov/sites/default/files/WEB_ASDE-X_10-31-07.pdf

57. Federal Aviation Administration. (2017 - 2021). *Runway Incursion Totals by quarter*. Available from: https://www.faa.gov/airports/runway_safety/statistics/

58. ICAO Aerodrome Design Manual, 2006, Aerodrome manual runway design.

59. Aerodromes – Volume 1 (Aerodromes Design and Operations), Annex 14 of International Civil Aviation Organization. https://www.pilot18.com/wp-content/uploads/2017/10/Pilot18.com-ICAO-Annex-14-Volume-1-Aerodrome-Design-and-Operations.pdf

60. Schoen, M. L., Preston, O. W., Summers, L. G., Nelson, B. A., VanderLinden, L., & Reynolds, M. C. (1985). *Probabilistic Computer Model of Optimal Runway Turnoffs*. NASA Contractor Report: 172549. Langley Research Center, Hampton, Virginia.

61. Rammohan, K. S., & Mahesh, K. M. (2017). Determining the Location of Rapid Exit Taxiways Using Three Segment Method. *International Journal of Innovative Research in Science, Engineering and Technology*, 6(2): 1715-1718. doi; 10.15680/IJIRSET.2017.0602041

62. Rahim, J., (2015). An Analysis of Runway Capacity at International Airport Sultan Aji Sulaiman Balikpapan in East Kalimantan-Indonesia. *International Refereed Journal of Engineering and Science*, 4(5): 05-11. http://www.irjes.com/Papers/vol4-issue5/B450511.pdf.

63. Meijers, N. P., & Hansman, R. J. (2019). *Data-driven Predictive Analytics of Runway Occupancy Time for Improved Capacity at Airports*. Report No. ICAT-2019-14. MIT International Center for Air Transportation, Massachusetts Institute of Technology, Cambridge.

64. Galagedera, S. D. B., Adikariwattage, V., Pasindu, H. R. (2021). Evaluation of Rapid Exit Locations Based on Veer-off Risk for Landing Aircraft. Sustainability, 13(9): 5134. https://doi.org/10.3390/su13095134

65. Blom, H. A. P., Bakker, G. J., Blanker, P. J. G., Daams, J., Everdij, M. H. C., & Klompstra, M. B. (2001). Accident Risk Assessment for Advanced Air Traffic Management. NLR-TP-2001-642. National Aerospace Laboratory NLR, Netherlands. https://reports.nlr.nl/bitstream/handle/10921/807/TP-2001-642.pdf?sequence=1

66. Trani, A. A., Hinze, N., Mirmohammadsadeghi, N., Duffy, K., & Vitagliano, L. (2020). *Runway Exit Design Interactive Model*. Air Transportation Systems Laboratory, Virginia

Tech, 2020.

67. Bae, I., Moon, J., & Jeongseok, S. (2019). Toward a Comfortable Driving Experience for a Self-Driving Shuttle Bus. *Electronics,* 8(9), 943. https://doi.org/10.3390/electronics8090943

68. 747-400 Airplane Characteristics for Airport Planning. (2002). Boeing Commercial Airplanes. https://www.boeing.com/resources/boeingdotcom/commercial/airports/acaps/747_4.pdf.

69. Air Transportation Systems Laboratory (ATSL). (2020). *Landing Events Database: Runway Exit Design Interactive Model (REDIM).* https://www.atsl.cee.vt.edu/index.html.

70. 747-400 Flight Crew Training Manual. (2006). Boeing Commercial Airplanes. https://www.volarenargentina.com/descargas/_747-400_FCTM.pdf.

71. Galagedera, S., Pasindu, H. R., & Adikariwattage, V.V. (2019). Analysis of Aircraft Veer-off Probability at High Speed Exits. *In Proceedings of the 2019 Moratuwa Engineering Research Conference (MERCon)* (pp 527-532). IEEE. doi: 10.1109/MERCon.2019.8818897