DAFTAR PUSTAKA

[1] M. Giordani, M. Polese, M. Mezzavilla, S. Rangan, and M. Zorzi, "Toward 6g networks: Use cases and technologies," *IEEE Communications Magazine*, vol. 58, no. 3, pp. 55–61, 2020.

[2] Radiocommunication Study Groups, "[working document towards a] preliminary draft new report itu-r m.[imt.future technology trends of terrestrial imt systems towards 2030 and beyond]," International Telecommunication Union, Working Document 5D/TEMP/585-E Revision 1, February 2022.

[3] D. Killinger, "Free space optics for laser communication through the air," *Opt. Photon. News*, vol. 13, no. 10, pp. 36–42, Oct 2002. [Online]. Available: http://www.optica-opn.org/abstract.cfm?URI=opn-13-10-36

[4] J. Hecht, "Short history of laser development," *Optical Engineering*, vol. 49, no. 9, pp. 091 002–, September 2010. [Online]. Available: https://www.spiedigitallibrary.org/journals/optical-engineering/volume-49/issue-9/091002/Short-history-of-laser-development/10.1117/1.3483597.full?SSO=1

[5] T. Jono, Y. Takayama, K. Ohinata, N. Kura, Y. Koyama, K. Arai, K. Shiratama, Z. Sodnik, A. Bird, and B. Demelenne, "Demonstrations of artemis-oicets inter-satellite laser communications," 06 2006.

[6] K. Pang, C. Liu, G. Xie, Y. Ren, Z. Zhao, R. Zhang, Y. Cao, J. Zhao, H. Song, H. Song, L. Li, A. N. Willner, M. Tur, R. W. Boyd, and A. E. Willner, "Demonstration of a 10 mbit/s quantum communication link by encoding data on two laguerre-gaussian modes with different radial indices," *Opt. Lett.*, vol. 43, no. 22, pp. 5639–5642, Nov 2018. [Online]. Available: http://opg.optica.org/ol/abstract.cfm?URI=ol-43-22-5639

[7] H. Takenaka, A. Carrasco-Casado, M. Fujiwara, M. Kitamura, M. Sasaki, and M. Toyoshima, "Satellite-to-ground quantum-limited communication using a 50-kg-class microsatellite." *Nature Photonics*, vol. 11, p. 502–508, July 2017. [Online]. Available: https://doi.org/10.1038/nphoton.2017.107

[8] S.-K. Liao, W.-Q. Cai, W.-Y. Liu, L. Zhang, Y. Li, J.-G. Ren, J. Yin, Q. Shen, Y. Cao, Z.-P. Li, F.-Z. Li, X.-W. Chen, L.-H. Sun, J.-J. Jia, J.-C. Wu, X.-J.

Jiang, J.-F. Wang, Y.-M. Huang, Q. Wang, Y.-L. Zhou, L. Deng, T. Xi, L. Ma, T. Hu, Q. Zhang, Y.-A. Chen, N.-L. Liu, X.-B. Wang, Z.-C. Zhu, C.-Y. Lu, R. Shu, C.-Z. Peng, J.-Y. Wang, and J.-W. Pan, "Satellite-to-ground quantum key distribution," *Nature*, vol. 549, pp. 1476–4687, Aug 2017. [Online]. Available: https://doi.org/10.1038/nature23655

[9] Z. Xu, G. Xu, and Z. Zheng, "Ber and channel capacity performance of an fso communication system over atmospheric turbulence with different types of noise," *Sensors*, vol. 21, no. 10, 2021. [Online]. Available: https://www.mdpi.com/1424-8220/21/10/3454

[10] H. Willebrand and B. Ghuman, "Fiber optics without fiber," *IEEE Spectrum*, vol. 38, no. 8, pp. 40–45, 2001.

[11] G. Cariolaro, *Quantum Communications*. Springer Publishing Company, Incorporated, 2015.

[12] R. Alsemmeari, S. Bakhsh, and H. Alsemmeari, "Free space optics vs radio frequency wireless communication," *International Journal of Information Technology and Computer Science*, vol. 8, pp. 1–8, 09 2016.

[13] K. David and H. Berndt, "6g vision and requirements: Is there any need for beyond 5g?" *IEEE Vehicular Technology Magazine*, vol. 13, no. 3, pp. 72–80, 2018.

[14] S. Dang, O. Amin, B. Shihada, and M.-S. Alouini, "What should 6g be?" 11 2019.

[15] W. Popoola and S. Rajbhandari, *Optical Wireless Communications: System and Channel Modelling with MATLAB®, Second Edition*, 05 2019.

[16] S. Bloom, E. Korevaar, J. Schuster, and H. Willebrand, "Understanding the performance of free-space optics," *J. Opt. Netw.*, vol. 2, no. 6, pp. 178–200, Jun 2003. [Online]. Available: http://opg.optica.org/jon/abstract.cfm?URI=jon-2-6-178

[17] A. A. Farid and S. Hranilovic, "Outage capacity optimization for free-space optical links with pointing errors," *Journal of Lightwave Technology*, vol. 25, no. 7, pp. 1702–1710, 2007.

[18] L. Andrews and R. Phillips, *Laser Beam Propagation Through Random Media*, 01 2005.

[19] K. Anbarasi, C. Hemanth, and R. Sangeetha, "A review on channel models in free space optical communication systems," *Optics & Laser Technology*, vol. 97, pp. 161–171, 2017. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S0030399216315006

[20] A. K. Majumdar, *Advanced Free Space Optics (FSO): A Systems Approach*. Springer Publishing Company, Incorporated, 2014.

[21] I. S. Gradshteyn and I. M. Ryzhik, *Table of integrals, series, and products*, 7th ed. Elsevier/Academic Press, Amsterdam, 2007, translated from the Russian, Translation edited and with a preface by Alan Jeffrey and Daniel Zwillinger, With one CD-ROM (Windows, Macintosh and UNIX).

[22] A. Garcia-Zambrana, "Error rate performance for stbc in free-space optical communications through strong atmospheric turbulence," *IEEE Communications Letters*, vol. 11, no. 5, pp. 390–392, 2007.

[23] T. M. Cover and J. A. Thomas, *Elements of Information Theory 2nd Edition (Wiley Series in Telecommunications and Signal Processing)*. Wiley-Interscience, July 2006.

[24] M. A. Nielsen and I. L. Chuang, *Quantum Computation and Quantum Information: 10th Anniversary Edition*. Cambridge University Press, 2010.

[25] Wolfram Research, Wolfram Function site, 2001, Accessed February 14, 2023. [Online]. Available: http://functions.wolfram.com/07.34.21.0013.01