























[27] A. Ali, G. A. Shah, M. O. Farooq, and U. Ghani, "Technologies and challenges in developing Machine-to-Machine applications: a survey," *Journal of Network and Computer Applications*, vol. 83, no. 4, pp. 124-139, 2017.

[28] Tony Q. S. Quek, Guillaume de la Roche, Ismail Guvenc, and Marios Kountouris. *Small cell networks: Deployment, PHY techniques, and resource management*. Cambridge University Press, 2013.

[29] R. Irmer, H. Droste, P. Marsch, M. Grieger, G. Fettweis, S. Brueck, H. P. Mayer, L. Thiele, and V. Jungnickel. *Coordinated multipoint: Concepts, performance, and field trial results*. *IEEE Commun. Mag.*, 49(2):102–111, February 2011.

[30] Harpreet S Dhillon, Marios Kountouris, and Jeffrey G Andrews. *Downlink coverage probability in MIMO hetnets*. In *Signals, Systems and Computers (ASILOMAR), 2012 Conference Record of the Forty Sixth Asilomar Conference on*, pages 683–687. IEEE, 2012.

[31] A. Q. Lawey, T. E. El-Gorashi, and J. M. Elmirghani, "Distributed Energy Efficient Clouds Over Core Networks," *Journal of Lightwave Technology*, vol. 32, pp. 1261-1281, 2014.

[32] Z. T. Al-Azez, A. Q. Lawey, T. E. H. El-Gorashi, and J. M. H. Elmirghani, "Virtualization framework for energy efficient IoT networks," presented at the 2015 IEEE 4th International Conference on Cloud Networking (CloudNet), 2015.

[33] C.-L. I, C. Rowell, S. Han, Z. Xu, G. Li, and Z. Pan, "Toward green and soft: a 5G perspective," *IEEE Communications Magazine*, vol. 52, pp. 66-73, 2014.

[34] S. Chen and J. Zhao, "The requirements, challenges, and technologies for 5G of terrestrial mobile telecommunication," *Communications Magazine, IEEE*, vol. 52, pp. 36-43, 2014.