1. BAI, Y.B., WU, S., RETSCHER, G., KEALY, A., HOLDEN, L., TOMKO, M., BORRIAK, A., HU, B., WU, H.R. and ZHANG, K., 2014. A new method for improving Wi-Fi-based indoor positioning accuracy. Journal of Location Based Services, 8(3), pp. 135-147.
2. BIANCA BOBESCU & MARIAN ALEXANDRU, 2015. MOBILE INDOOR POSITIONING USING WI-FI LOCALIZATION. Review of the Air Force Academy. (1), pp. 119.
3. BOOSTANDCO, 2017, SIX WIFI TRENDS THAT SHOW WHY IT’S THE INTERNET’S GROWTH BUSINESS. Available from: <https://boostandco.com/news/wifi-trends-2017/> [viewed 11/10/18],.
4. CHAKRABORTY, A., 2000. A Distributed Architecture for Mobile,  
   Location-Dependent Applications, Massachusetts Institute of Technology.
5. CHANDLER,N., 2012. What's the difference between RFID and NFC? march, Available from: <https://electronics.howstuffworks.com/difference-between-rfid-and-nfc.htm>. [viewed April, 5, 2018].
6. CHOUDHARY, B. and RAKESH, S.K., 2016. An approach using agile method for software development, 2016, IEEE, pp. 155-158.
7. COOMBS, J., 2017. More Straight Goods on Location: Bluetooth and Location Permission Opt-in Rates. Jun 8, [viewed April 5, 2018]. Available from: <https://m.rover.io/more-straight-goods-on-location-bluetooth-and-location-permission-opt-in-rates-cd4361acf3bc>.
8. FARID, Z., NORDIN, R. & ISMAIL, M., 2013. Recent Advances in Wireless Indoor Localization Techniques and System. Journal of Computer Networks and Communications. 2013, pp. 1-12
9. FARNELL ELEMENT14, 1 November, 2017- last update, Wi-Fi Architecture, Implementation and Applications. Available: <https://uk.farnell.com/wi-fi-architecture-implementation-and-applications> [Viewed 29/10/18].
10. FEDORYCHAK, V., 2018. Top 9 Mobile App Development Trends for 2018. January, 4, [viewed April, 5, 2018]. Available from: <https://lvivity.com/app-development-trends-2018>.
11. FURLAN, A., September 4, 2018-last update, Android Development Tools List. Available: <http://www.businessofapps.com/guide/android-development-tools/> [Viewed 22/10/18].
12. FUTURE OF PRIVACY FORM and CENTER FOR DEMOCRACY & TECHNOLOGY, 2011. Best Practices for Mobile Application Developers. Future of Privacy Form. [Viewed 23/10/18].
13. G. DELNEVO, L. MONTI, F. VIGNOLA, P. SALOMONI&S. MIRRI. , 2018.2018 15th IEEE annual consumer communications & networking conference (CCNC) In: Anonymous 2018 15th IEEE Annual Consumer Communications & Networking Conference (CCNC) 1-6.
14. GARUDE, M. and HALDIKAR, N., 2014. Real Time Position Tracking System Using Google Maps API V3. International Journal of Scientific and Research Publications, 4(9).
15. GĄSIOREK, A., 2016. Beacons Are Vulnerable; It’s Time We Made Beacons Secure. April 11, Available from: <https://kontakt.io/blog/beacon-security/>. [Viewed April 5, 2018].
16. GOOGLE, august, 2018, App security best practices. Available: <https://developer.android.com/topic/security/best-practices> [Viewed 23/10/18].
17. GOYAL, V., BHATHEJA, A. and AHUJA, D., 2016. Survey Paper On Android Vs. IOS. International Journal of Latest Engineering Research and Applications, 1(3), pp. 1.
18. GRIMUS, M. & EBNER, M., 2015. Learning and teaching with mobile devices. International Journal of Mobile and Blended Learning. 7(2), pp. 17-32.
19. HE XU, YE DING, PENG LI, RUCHUAN WANG & YIZHU LI, 2017. An RFID Indoor Positioning Algorithm Based on Bayesian Probability and K-Nearest Neighbor. Sensors. 17(8), pp. 1806.
20. HERRERA VARGAS, M., 2016. Indoor navigation using Bluetooth Low Energy (BLE) beacons, Turku University of Applied Sciences.
21. HUH, J. and SEO, K., 2017. An Indoor Location-Based Control System Using Bluetooth Beacons for IoT Systems. Sensors, **17**(12),
22. HUI LIU, DARABI, H., BANERJEE, P. & JING LIU, 2007. Survey of Wireless Indoor Positioning Techniques and Systems. IEEE Transactions on Systems, Man, and Cybernetics, Part C (Applications and Reviews). 37(6), pp. 1067-1080.
23. Infsoft (2015). BLE beacon positioning system. [image] Available at: https://www.infsoft.com/blog-en/articleid/41/indoor-navigation-indoor-positioning-using-bluetooth# [viewed 5 Apr. 2018].
24. INUKOLLU, V.N., KESHAMONI, D.D., KANG, T. and INUKOLLU, M., 2014. Factors Influencing Quality of Mobile Apps:Role of Mobile App Development Life Cycle. International Journal of Software engineering & Applications, **5**.
25. Istqbexamcertification.com (2017). Incremental Life Cycle Model. [image] Available at: http://istqbexamcertification.com/what-is-incremental-model-advantages-disadvantages-and-when-to-use-it/ [Accessed 3 Apr. 2018].
26. KHARCHENKO, N., 2017. 5 Hot Android App Development Trends. February 8, Available from: <https://www.upwork.com/hiring/for-clients/5-hot-android-app-development-trends/>. [Viewed April 5, 2018].
27. L. RAKESTRAW, T., V. EUNNI, R. & R. KASUGANTI, R., 2012. The mobile apps industry: A case study. Journal of Business Cases and Applications. 9, pp. 11-21
28. LEMBERG. 2014. iBeacon: The Pros And Cons &amp; Where to Begin With Programming. Dec 09 2014, Available from: <https://blog.lemberg.co.uk/ibeacon-pros-and-cons-where-begin-programming>. [Viewed April 5, 2018].
29. LI, B., QUADER, I.J. and DEMPSTER, A.G., 2008. On outdoor positioning with Wi-Fi. Journal of Global Positioning Systems, **7**(1), pp. 18-26.
30. LIKHITHA, C., ANUSHA, N.K., ANNAPURNA, R. and PROF. SAVITA B PATIL .U G STUDENT, 2018. Just Walk Out Technology Using RFID, Computer Vision and Sensor Fusion. International Journal of Innovative Research in Science, Engineering and Technology, 7(6),.
31. MAUTZ, R., 2012. Indoor Positioning Technologies. ETH Zurich, Department of Civil, Environmental and Geomatic Engineering, Institute of Geodesy and Photogrammetry
32. MICHAEL, K., 2004. Location-Based Services: a vehicle for IT&T convergence. Location-Based Services: a vehicle for IT&T convergence.
33. MOHAMED, I. and PATEL, D., Apr 2015Android vs iOS Security: A Comparative Study, Apr 2015, IEEE, pp. 725-730.
34. MONTAG, C., KANNEN, C., LACHMANN, B., SARIYSKA, R., DUKE, É, REUTER, M. & MARKOWETZ, A., 2015. The importance of analogue zeitgebers to reduce digital addictive tendencies in the 21st century. Addictive Behaviours Reports. 2, pp. 23-27.
35. MONTENBRUCK, O. and RAMOS-BOSCH, P., 2008. Precision real-time navigation of LEO satellites using global positioning system measurements. GPS Solutions, 12(3), pp. 187-198.
36. NHLANHLA, M., ADEYEYE-OSHIN, M. and SAKPERE, W., 2017. A State-of-the-Art Survey of Indoor Positioning and Navigation Systems and Technologies. South African Computer Journal, 29(3).
37. NIANTIC (2018). Screenshot of location based game PokemonGo. [image] Available at: https://www.pokemongo.com [viewed 5 Apr. 2018].
38. PARK, H., NOH, J. and CHO, S., 2016. Three-dimensional positioning system using Bluetooth low-energy beacons. International Journal of Distributed Sensor Networks, **12**(10).
39. PERZYŃSKI, T., PIETRUSZCZAK, D. and ZIÓŁEK, G., 2018. Analysis of selected operating systems in mobile devices. AUTOBUSY – Technika, Eksploatacja, Systemy Transportowe, 19(6), pp. 649-654.
40. PRIYANTHA, N., CHAKRABORTY, A. and BALAKRISHNAN, H., 2000 The Cricket location-support system, Aug 1, 2000, ACM, pp. 32-43.
41. RAMASWAMY, S., 2016. Ads and analytics innovations for a mobile-first world. Available: <https://www.blog.google/products/ads/ads-and-analytics-innovations-for-a-mobile-first-world/> [viewed 09/10/18].
42. RONDÓN, R., GIDLUND, M. & LANDERNÄS, K., 2017. Evaluating Bluetooth Low Energy Suitability for Time-Critical Industrial IoT Applications. International Journal of Wireless Information Networks. 24(3), pp. 278-290.
43. RUIZ-GARCIA, L. and LUNADEI, L., 2011. The role of RFID in agriculture: Applications, limitations and challenges. Computers and Electronics in Agriculture, 79(1), pp. 42-50.
44. SCASSA, T. and SATTLER, A., 2011. Location-based services and privacy. Canadian Journal of Law & Technology, 9(1-2), pp. 99.
45. SMITH, A., BALAKRISHNAN, H., GORACZKO, M. and PRIYANTHA, N., 2004Tracking Moving Devices with the Cricket Location System, Proceedings of the 2Nd International Conference on Mobile Systems, Applications, and Services 2004, ACM, pp. 190-202.
46. STATISTA, August, 2018-last update, Global mobile OS market share in sales to end users from 1st quarter 2009 to 2nd quarter 2018. Available: <https://www.statista.com/statistics/266136/global-market-share-held-by-smartphone-operating-systems/> [viewed 22/10/18].
47. TAMBE, S., 2015. WIRELESS TECHNOLOGY IN NETWORKS. International Journal of Scientific and Research Publications, **5**(7).
48. THOMAS, J., 27 May, 2014 - last update, The History of WiFi. Available: <https://purple.ai/blogs/history-wifi/> [Viewed 29/10/18].
49. TIOBE, October, 2018 -last update, TIOBE Index. Available: <https://www.tiobe.com/tiobe-index/> [Viewed 25/10/18].
50. UNACAST, 2016. PROXIMITY MARKETING  
    IN AIRPORTS & TRANSPORTATION. The Proxbook Report: proximity.directory.
51. VIKRAM, N., HARISH, K.S., NIHAAL, M.S., UMESH, R. and KUMAR, S.A.A., Jan 2017A Low Cost Home Automation System Using Wi-Fi Based Wireless Sensor Network Incorporating Internet of Things (IoT), Jan 2017, IEEE, pp. 174-178.
52. WAKE, J., 2013. Mobile, location-based games for learning. Developing, deploying and evaluating mobile game technology in education, University of Bergen.
53. WELLS, G., 2015. The Future of iOS Development: Evaluating the Swift Programming Language. Technical Services Quarterly, 32(2), pp. 230-232.
54. WIEGAND, N., n.d., the Effects of Metal on Wireless Routers. Available: <https://smallbusiness.chron.com/effects-metal-wireless-routers-73559.html> [Viewed 29/10/2018].
55. WUKKADADA, B., NAMBIAR, R. and NAIR, A., 2015. Mobile Operating System: Analysis and Comparison of Android and iOS. International Journal of Computing and Technology, **2**(7), pp. 77.
56. XIA, S., LIU, Y., YUAN, G., ZHU, M. and WANG, Z., 2017. Indoor Fingerprint Positioning Based on Wi-Fi: An Overview. ISPRS International Journal of Geo-Information, **6**(5), pp. 135.
57. Y ORTAKCI, E DEMIRAL, U ATILA & I R KARAS, 2015. INDOOR NAVIGATION DESIGN INTEGRATED WITH SMART PHONES AND RFID DEVICES. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences. II(2), pp. 223-226.
58. Zandbergen, A. (2012). Comparison of WiFi positioning on two mobile devices. Journal of Location Based Services, 6(1), pp.35-50.
59. ZHANG, A., YUAN, Y., WU, Q., ZHU, S. and DENG, J., 2015. Wireless Localization Based on RSSI Fingerprint Feature Vector. International Journal of Distributed Sensor Networks, **11**(11).
60. [2.1. Examine the accuracy of other forms of indoor positioning 9](#_Toc528862785)

Examine the accuracy of other forms of indoor positioning

Investigate Wi-Fi and Signal Technology

Investigate Android application development