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## ACADEMIC APPOINTMENTS

Date	Position	Job Description	Employer
August 2020 - Present	Assistant Professor	Supervising Undergraduate, Postgraduate, and Internship students. Prepare and deliver lectures to undergraduate and graduate students.	Sharjah of University (UOS)
2019 - 2020 2018 - 2020	Co- Director Lecturer	Centre for Data Science and Analytics Supervising Undergraduate, Postgraduate, and Internship students. Prepare and deliver lectures to undergraduate and graduate students on topics such as Big Data analytics, Machine Learning, Data Mining, and Networking	Taylor's University (TU) Taylor's University (TU)
2017 - 2018	Visiting Lecturer	Supervised Undergraduate, Postgraduate, and Internship students. Prepared and delivered lectures to undergraduate and graduate students on topics such as Big Data analytics, Machine Learning, Data Mining, and Networking.	Asia Pacific University (APU)
2018 - 2019	Part-time Lecturer	Teaching Data Analytics	University of Malaya (UM)
2016 - 2017	Visiting Lecturer	Prepared and delivered lectures to undergraduate on topics such as Networking, C++, and data communication.	Olympia College, Malaysia
2014 - 2016	Research Assistant	Worked in Big Data Scheduling research to find an optimal scheduler for Big Data Processing.	University Malaya (UM)

## EDUCATIONAL SUMMARY

28/02/2013 – 27/04/2017	Ph.D. - Computer Science - University of Malaya Thesis " <i>Optimisation Model For Scheduling MapReduce Jobs In Big Data Processing</i> " Supervisor. Associate Prof. Dr. Nor Badrul Anuar Bin Juma'at
01/06/2009 – 6/09/2012	Msc. – Computing - University of Wales, Newport
20/02/2003 – 17/04/2007	Bsc. (Hons) Computer Science - International University of Africa-Khartoum

## RESEARCH INTERESTS

- Big Data (Analytics, Storage, Scheduling)
- Social Media Analysis
- Internet of Things (Data Management)
- Blockchain (Analytics)
- Cloud Computing

## ISI JOURNAL PUBLICATIONS

1. Bilal, M., Marjani, M., Lali, M. I., Malik, N., Gani, A., & Ibrahim Abaker Targio Hashem. (2020). Profiling Users' Behavior, and Identifying Important Features of Review "Helpfulness". *IEEE Access*.

2. Usmani, R. S. A., Saeed, A., Abdullahi, A. M., Pillai, T. R., Jhanjhi, N. Z., & **Ibrahim Abaker Targio Hashem**. (2020). Air pollution and its health impacts in Malaysia: a review. *Air Quality, Atmosphere & Health*, 13(9), 1093-1118.
3. Muhammad, A. N., Aseere, A. M., Chiroma, H., Shah, H., Gital, A. Y., & **Ibrahim Abaker Targio Hashem**. (2020). Deep learning application in smart cities: recent development, taxonomy, challenges and research prospects. *Neural Computing and Applications*, 1-37.
4. Bilal, M., Marjani, M., **Ibrahim Abaker Targio Hashem**, Gani, A., Liaqat, M., & Ko, K. (2019). Profiling and Predicting the Cumulative Helpfulness (Quality) of Crowd-Sourced Reviews. *Information*, 10(10), 295.
5. Zakari, A., Lee, S. P., & **Ibrahim Abaker Targio Hashem**. (2019). A single fault localization technique based on failed test input. *Array*, 3, 100008.
6. Zakari, A., Lee, S. P., & **Ibrahim Abaker Targio Hashem**. (2019). A Community-Based Fault Isolation Approach for Effective Simultaneous Localization of Faults. *IEEE Access*, 7, 50012-50030. (SCIE (Q1), IF 4.09).
7. Habeeb, R. A. A., Nasaruddin, F., Gani, A., **Ibrahim Abaker Targio Hashem**., Ahmed, E., & Imran, M. (2019). Real-time big data processing for anomaly detection: A Survey. *International Journal of Information Management*, 45, 289-307. (SSCI (Q1), IF 5.06).
8. Yaqoob, I., **Ibrahim Abaker Targio Hashem**., Ahmed, A., Kazmi, S. A., & Hong, C. S. (2019). Internet of things forensics: Recent advances, taxonomy, requirements, and open challenges. *Future Generation Computer Systems*, 92, 265-275. (SCIE (Q1), IF 5.76).
9. Firdaus, A., Ab Razak, M. F., Feizollah, A., **Ibrahim Abaker Targio Hashem**., Hazim, M., & Anuar, N. B. (2019). The rise of "blockchain": bibliometric analysis of blockchain study. *Scientometrics*, 120(3), 1289-1331. (SCIE (Q2), IF 2.77).
10. Amalina, F., **Ibrahim Abaker Targio Hashem**., Azizul, Z. H., Fong, A. T., Firdaus, A., Imran, M., & Anuar, N. B. (2019). Blending Big Data Analytics: Review on Challenges and a Recent Study. *IEEE Access*. (SCIE (Q1), IF 4.09).
11. Ariyaluran Habeeb, R. A., Nasaruddin, F., Gani, A., Amanullah, M. A., **Ibrahim Abaker Targio Hashem**, I., Ahmed, E., & Imran, M. Clustering-based real-time anomaly detection—A breakthrough in big data technologies. *Transactions on Emerging Telecommunications Technologies*, e3647. (ISI (Q2), IF 1.26).
12. Chiroma, H., Abdullahi, U. A., AlArood, A. A., Gabralla, L. A., Rana, N., Shuib, L., **Ibrahim Abaker Targio Hashem** ... & Herawan, T. (2018). Progress on Artificial Neural Networks for Big Data Analytics: A Survey. *IEEE Access*. (SCIE (Q1), IF 4.09).
13. Fadele, A. A., Othman, M., **Ibrahim Abaker Targio Hashem**., Yaqoob, I., Imran, M., & Shoaib, M. (2018). A novel countermeasure technique for reactive jamming attack in internet of things. *Multimedia Tools and Applications*, 1-22. (SCIE (Q2), IF 1.54).
14. Ghani, N. A., Hamid, S., **Ibrahim Abaker Targio Hashem**., & Ahmed, E. (2018). Social media big data analytics: A survey. *Computers in Human Behavior*. ( SCIE (Q1), IF 3.44).
15. Firdaus, A., Anuar, N. B., Ab Razak, M. F., **Ibrahim Abaker Targio Hashem**., Bachok, S., & Sangaiah, A. K. (2018). Root exploit detection and features optimization: mobile device and blockchain based medical data management. *Journal of medical systems*, 42(6), 112. (SCI (Q1), IF: 2.42).
16. Elzein, N. M., Majid, M. A., **Ibrahim Abaker Targio Hashem**., Yaqoob, I., Alaba, F. A., & Imran, M. (2018). Managing big RDF data in clouds: Challenges, opportunities, and solutions. *Sustainable Cities and Society*, 39, 375-386. (SCIE (Q2), IF 3.07).
17. Zerdoumi, S., Sabri, A. Q. M., Kamsin, A., **Ibrahim Abaker Targio Hashem**., Gani, A., Hakak, S., ... & Chang, V. (2018). Image pattern recognition in big data: taxonomy and open challenges: survey. *Multimedia Tools and Applications*, 77(8), 10091-10121. (SCIE (Q2), IF 1.54).
18. **Ibrahim Abaker Targio Hashem**., Anuar, N. B., Marjani, M., Gani, A., Sangaiah, A. K., & Sakariyah, A. K. (2018). Multi-objective scheduling of MapReduce jobs in big data processing. *Multimedia Tools and Applications*, 77(8), 9979-9994. (SCIE (Q2), IF 1.54).
19. Ahmed, E., Yaqoob, I., **Ibrahim Abaker Targio Hashem**., Shuja, J., Imran, M., Guizani, N., & Bakhsh, S. T. (2018). Recent advances and challenges in mobile big data. *IEEE Communications Magazine*, 56(2), 102-108. (SCI (Q1), IF 10.35).
20. ur Rehman, M. H., Ahmed, E., Yaqoob, I., **Ibrahim Abaker Targio Hashem**., Imran, M., & Ahmad, S. (2018). Big data analytics in industrial IoT using a concentric computing model. *IEEE Communications Magazine*, 56(2), 37-43. (SCI (Q1), IF 10.35).
21. **Ibrahim Abaker Targio Hashem**., Anuar, N. B., Marjani, M., Ahmed, E., Chiroma, H., Firdaus, A., ... & Gani, A. (2018). MapReduce scheduling algorithms: a review. *The Journal of Supercomputing*, 1-31. (SCI (Q2), IF: 1.52).
22. Ahmed, E., Yaqoob, I., **Ibrahim Abaker Targio Hashem**., Khan, I., Ahmed, A. I. A., Imran, M., & Vasilakos, A. V. (2017). The role of big data analytics in Internet of Things. *Computer Networks*, 129, 459-471. (SCIE (Q1), IF 3.03).

23. Ahmed, E., Yaqoob, I., **Ibrahim Abaker Targio Hashem.**, Shuja, J., Imran, M., Guizani, N., & Bakhsh, S. T. (2018). Recent advances and challenges in mobile big data. *IEEE Communications Magazine*, 56(2), 102-108. (SCI (Q1), IF 10.35).
24. Alotaibi, F., Abdullah, M. T., Abdullah, R. B. H., Rahmat, R. W. B. O., **Ibrahim Abaker Targio Hashem.**, & Sangaiah, A. K. (2017). Optical character recognition for quranic image similarity matching. *IEEE Access*, 6, 554-562. (SCIE (Q1), IF 4.09).
25. Marjani, M., Nasaruddin, F., Gani, A., Karim, A., **Ibrahim Abaker Targio Hashem.**, Siddiqa, A., & Yaqoob, I. (2017). Big IoT data analytics: architecture, opportunities, and open research challenges. *IEEE Access*, 5, 5247-5261. (SCIE (Q1), IF 4.09).
26. Yaqoob, I., **Ibrahim Abaker Targio Hashem.**, Mehmood, Y., Gani, A., Mokhtar, S., & Guizani, S. (2017). Enabling communication technologies for smart cities. *IEEE Communications Magazine*, 55(1), 112-120. (SCI (Q1), IF 10.35).
27. Alaba, F. A., Othman, M., **Ibrahim Abaker Targio Hashem.**, & Alotaibi, F. (2017). Internet of Things security: A survey. *Journal of Network and Computer Applications*, 88, 10-28. ( SCIE (Q1), IF 3.99).
28. Yaqoob, I., Ahmed, E., **Ibrahim Abaker Targio Hashem.**, Ahmed, A. I. A., Gani, A., Imran, M., & Guizani, M. (2017). Internet of things architecture: Recent advances, taxonomy, requirements, and open challenges. *IEEE wireless communications*, 24(3), 10-16. (SCI (Q1), IF 11).
29. Yaqoob, I., **Ibrahim Abaker Targio Hashem.**, Gani, A., Mokhtar, S., Ahmed, E., Anuar, N. B., & Vasilakos, A. V. (2016). Big data: From beginning to future. *International Journal of Information Management*, 36(6), 1231-1247. (SSCI (Q1), IF 5.06).
30. **Ibrahim Abaker Targio Hashem.**, Anuar, N. B., Gani, A., Yaqoob, I., Xia, F., & Khan, S. U. (2016). MapReduce: Review and open challenges. *Scientometrics*, 109(1), 389-422. (SCIE (Q2), IF 2.77)
31. Siddiqa, A., **Ibrahim Abaker Targio Hashem.**, Yaqoob, I., Marjani, M., Shamshirband, S., Gani, A., & Nasaruddin, F. (2016). A survey of big data management: Taxonomy and state-of-the-art. *Journal of Network and Computer Applications*, 71, 151-166. ( SCIE (Q1), IF 3.99).
32. **Ibrahim Abaker Targio Hashem.**, Chang, V., Anuar, N. B., Adewole, K., Yaqoob, I., Gani, A., ... & Chiroma, H. (2016). The role of big data in smart city. *International Journal of Information Management*, 36(5), 748-758. (SSCI (Q1), IF 5.06).
33. **Ibrahim Abaker Targio Hashem.**, Yaqoob, I., Anuar, N. B., Mokhtar, S., Gani, A., & Khan, S. U. (2015). The rise of "big data" on cloud computing: Review and open research issues. *Information systems*, 47, 98-115. (SCI (Q1), IF: 2.07).
34. Khan, N., Yaqoob, I., **Ibrahim Abaker Targio Hashem.**, Inayat, Z., Ali, M., Kamaleldin, W., ... & Gani, A. (2014). Big data: survey, technologies, opportunities, and challenges. *The Scientific World Journal*, 2014. (SCIE (Q1), IF 1.73 (JCR 2013)).

## RESEARCH PROJECTS/CONFERENCES

- Modeling and Analysis of State-of-the-Art-Deep Learning Models for Big Data Analytics , **Project Leader**, 2018 to 2019 (Taylor's University)
- Modelling and Visualization of air pollution and its impact on health , TUF/2017/004/04, RM211,200.00, **Co-Researcher**, 2017 to 2020 (Taylor's University)
- UMRG Grant - RP044D-17HNE - **Co-Researcher**, 2017 to 2020 (University of Malaya)
- Part of research group carries out a project entitled "Mobile Cloud Computing: Devices and Connectivity" and "Big Data", which is funded by the Malaysian Ministry of Higher Education under the University of Malaya High Impact Research Grant - UM.C/HIR/MOHE/FCSIT/03 for five years starting from 2011.
- Raach, O., Pillai, T. R., & Ibrahim Abaker Targio Hashem. (2018, October). A comparison of Estimation Techniques for electrocardiogram classification. In 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA) (pp. 1-5). IEEE.
- Elzein, N. M., Majid, M. A., Fakhherdin, M., & Ibrahim Abaker Targio Hashem. (2018). Distributed Join Query Processing for Big RDF Data. *Advanced Science Letters*, 24(10), 7758-7761.
- Pillai, T. R., Ibrahim Abaker Targio Hashem., Brohi, S. N., Kaur, S., & Marjani, M. (2018, October). Credit Card Fraud Detection Using Deep Learning Technique. In 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA) (pp. 1-6). IEEE.
- Ibrahim Abaker Targio Hashem., Anuar, N. B., & Gani, A. (2015). Schedule optimization for big data processing on cloud. In Proc. 2nd Int. Conf. Big Data Anal. Data Mining.

## EXPOSITION AND SEMINARS ATTENDED

- Understanding Big Data Evolution with Doug Cutting - 'Father of Hadoop' - Sunway University – 5 Dec 2018
- Broadcast Asia Exposition 2012- Singapore June 2012
- Broadcast Asia Exposition 2014 – Singapore June 18

- Leveraging IT for Maximum Profit – The SME Way (Cisco) - Malaysia July 2010
- Live Webcast: Securing Your Application Data Against Attack or Abuse (Oracle) - Malaysia June 2010
- Cisco SMB Virtual Seminar – Converting Foot and Web Traffic into Revenue - Malaysia Apr 2010
- IBM Backup and Recovery & Storage Virtualization (IBM) - Malaysia June 2009
- Postgraduate Research Excellence Symposium – Presenter
- Practical Big data processing with MapReduce and Hadoop – Instructor
- Learn & Discover with Microsoft Azure Workshop – 19 Dec 2015

## PROFESSIONAL COURSES AND CERTIFICATES

CCNP (Cisco Certified Network Professional)	Certified
CCNA (Cisco Certified Network Associate)	Certified
CCNA Security(Cisco Certified Network Associate Security)	Certified
HCNA (Huawei Certified Network Associate )	Certified - <b>Instructor</b>
Cloudera Hadoop Admin	Certification
Pig, Hive, Impala with Hadoop	Certification
Talend Big Data Integration	Certification
Apache Flume, Kafka, and Sqoop data ingestion	Certification
RapidMiner Studio and RapidMinor Radoop for Mining in Hadoop	Certification
Cloudera Developer for Apache	Training Course
OBAISH® (Ownership, Business Processes, Applications, System, Hardware, and Infrastructure )	APMG - Foundation Level Certification
ITIL V3 Foundation Level	APMG Certification
PRINCE2 Foundation Level	APMG Certification
SciWrite Writing in the Sciences – Stanford University	Certification
TOGAF9 Foundation Level	InfoSpec Bhd - Training Course
Business and System Analysis	InfoSpec Sdn Bhd- Training Course
MCSE 2003	Aptech – Certification
Learn & Discover with Microsoft Azure Workshop	Training Certificate

## SUBJECTS TAUGHT

- Big Data Analytics & Technologies
- Data Analytics
- Applied Machine Learning
- Network Security
- Computer Application
- Network Essential
- Intro to Web page Design
- CISCO CCNA
- Huawei – HCNA
- Data Mining
- Computing Networking

## TECHNICAL SKILLS

- Hadoop Framework, Sparks, Hive, Cloudera
- Data Science and Machine Learning
- Networking
- Statistical analysis software: R, Python, Weka
- Programming: Java , C++ , JSP , HTML , Servlet

## SUPERVISION - POST GRADUATE STUDENT

- FAIRUZ AMALINA BINTI NARUDIN, PhD/ Doctoral (Co-supervisor (External))
- RAJA SHER AFGUN USMANI (Main Supervisor)
- ABDULLAHI AKIBU MAHMOUD (Main Supervisor)
- REDHWAN MOHAMMED ABDULLAH AL-AMRI (Co-supervisor (Internal))
- KAMYA ERIA - MSc in Data Science and Business Analytics (Main Supervisor)
- SAYJADAH YASHNA - MSc in Data Science and Business Analytics (Main Supervisor)

## CONFERENCE TPC MEMBER

- 
- The 13th International Wireless Communications and Mobile Computing Conference (IWCMC 2017 M2M&IoT Symposium).

- 2nd IEEE International Conference on Fog and Mobile Edge Computing (FMEC 2017)
- 1st IEEE International Conference on Fog and Mobile Edge Computing (FMEC 2016)
- International Conference on Energy Engineering and Smart Grids (ESG 2018)
- International Workshop on Emerging Technologies for Pervasive Healthcare and Applications (ETPHA 2017)

### JOURNAL REFEREES

- Future Generation Computer Systems (IF - 5.77)
- KSII Transactions on Internet and Information Systems (IF - 0.365)
- Information Systems (IF - 2.066)
- Journal of Network and Computer Applications (IF- 3.991)
- IEEE Wireless Communications (IF - 11)
- IEEE ACCESS (IF – 4.097)
- IEEE Communications Magazine (IF - 10.35)
- International Journal of Environmental Science and Technology (IF - 2.037)
- ACM Computing Surveys

### AWARDS

- Certificate of achievement – excellent tutor - Huawei ICT competition Malaysia 2019 – 2020
- Certificate of achievement – excellent tutor - Huawei ICT competition Malaysia 2018 - 2019
- Multi-objective Scheduling of MapReduce Jobs in Big Data Processing Postgraduate Research symposium (PGRoS), University of Malaya, 1 June 2016
- The rise of Big Data on Cloud Computing, PGRoS, University of Malaya, 9 June 2015
- Certificate of Reviewing - Journal of Network and Computer Applications , Services, Elsevier, 2018 (Journal Reviewer Award)
- Certificate of Reviewing - Sustainable Cities and Society, Education, Elsevier, 2017 (Journal Reviewer Award)
- Certificate of Reviewing - Computer Networks, Education, Elsevier, 2017 (Journal Reviewer Award)
- Information Systems Journal - Most cited, Education, Elsevier, 2016 (Top Cited Researcher)

### OPEN TALKS

- Practical big data processing with MapReduce and Hadoop 17-18 August 2015, University Malaya.
- Art of research – University Malaya, Department Of Computer System & Technology, Faculty Of Computer Science & Information Technology, 10 March 2017.
- Big Data Analytics Challenges & Opportunities -

TYPE OF THE ACTIVITY	RESPONSIBILITY
Big Data Lab (Taylor's University)	Undertaking data collection, preprocessing and analysis; Building models
FYP projects	Examiner
Evaluator for postgraduate research student's	Examiner
Salesforce project	Team Member
MSOI for Master of Applied Computing and Analytics	Developing syllabus for 2 modules

Reference:

Available on request.