Brief CV

Name	Nurul Akmar Binti Emran	中文名		
Gender	FEMALE	**Title** (Pro./Dr.)	ASSOCIATE PROFESSOR DR.	
Position （President…）	NONE	**Country/ Region**	MALAYSIA	

University/ Department	Universiti Teknikal Malaysia Melaka
Personal Website	https://sites.google.com/view/nurulemran/home
Research Area	a. Advanced database applications and query optimization b. Data quality (Completeness/Privacy and Accessibility) c. Database storage space optimization for green data management d. Multimedia databases e. Open Data/Big Data management

Brief introduction of your research experience:

My research interests are in data/information quality, big data management, bioinformatics, databases, data security, database storage optimization and in-database analytics.

In terms of research grants, I was the principal researcher of two national grants, and two university's grants which all have been completed. The details of these grants are as follow:

1. FRGS (RACE)/2012/FTMK/SG05/02/1 F00155], "Novel functional Dependency Approach for Storage Optimisation in Green Microbial Data Centers", RM50, 000. 1/12/2012 – 30/11/2014. (NATIONAL GRANT)

2. FRGS/1/2015/ICT04/FTMK/02/F00289, "Enhanced Big Data Analytical Reporting Using Hybrid Materialized Views Storage For Manufacturing Execution System (MES)", RM69,000, 1/11/2015-31/10/2018. (NATIONAL GRANT)

3. PJP/2012/FTMK(1D)/S001002 ,"Characterisation of Data Set Features for Space Optimisation Using Functional Dependency", RM11,700, 1/06/2012 - 30/11/2013. (UNIVERISTY GRANT)

4. PJP/2014/FTMK(9D)/S01366 ,"Measuring Accuracy of Query Results for Smart City Data Centers

Space Optimisation", RM7,000, 1/08/2014 - 31/01/2016. (UNIVERISTY GRANT)

I also contribute as co researcher for the following research grants (from 2006-2019) at national, university and industry levels as follow:

Fundamental Research Grant Scheme (FRGS) (Member):

1. FRGS/1/2015/ICT04/FTMK/02/F00286, "Enhancing Tchbichef Moments to improve query processing performance for multimedia information indexing and retrieval", RM78,200.00, 1/11/2015-31/10/2017.

2. FRGS/1/2016/SS06/PBPI-CTED/F00330, "A New Model Based On actor-Network Theory to Enhance the Usage of Online Halal Certification", RM55,000.00, 8/1/2016-31/7/2018.

3. FRGS/1/2016/ICT04/UPM/01/2, "Threshold-based Probabilistic Interval Sjyline Queries for Efficient Skyline Comutation on Big Data", RM 57528.00, 1/8/2016-31/7/2018.

4. FRGS/1/2017/ICT02/UTEM/02/6, "A New Block Formation Featutres for Subword Recognition in Arabic Big Data Images", RM69,200.00, 15/8/2017-18/8/2019.

5. FRGS/1/2018/ICT02/UTEM/02/2, "A New Two-level Cooperative Coevolutionary Algorithm for Multitier Materialized Views Selection Problem in Cybermanufacturing Datawarehouses", RM56528.30, 1/1/2019-31/12/2020.

Research Acculturation Grant Scheme (RAGS) (Member) :

6. RAGS/2012/FTMK/SG05/1 B00016 , "A Novel Swarm Optimized Rough Apriori Model for Mining Significant Resistant Single Nucleotide Polymorphism Subset in Obesity Gene Variants Diagnosis",RM52,270, 15/12/2012 - 14/11/2014.

University's Research Grant   (Member) :

1. PJP/2005/FTMK(7)/S00159 ,"Information Retrieval for Biometric   Databases", 11/01/2005 - 31/10/2006.

2. PJP/2006/FTMK(1)/S00195 ,"Integration Of Intelligence Data Mining With A Geographic Information System Using Neural Network To Support Spatial Patern Recognition", 1/06/2006 - 30/11/2007.

3. PJP/2012/C-ACT/Y0003, "Ubiquitous Personalised Health Record System", RM 150,000, 2/11/2012-31/11/2013

4. PJP/2013/FTMK(7D)/S01159, "A hybrid collaborative filtering and content-based approach for personalized hotel recommender system", RM18,000.00, 1/6/2013-30/11/2014.

5. PJP/2013/FTMK(22D)/S01253 ,"Data Sharing Model for Virtual Cooperative Medical Tourism System using On-Demand Data Integration Approach", RM12,900.00, 1/10/2013-30/4/2015.

6. PJP/2016/FTMK/HI3/S01475, "The development of NC Dashboard For UTeM Performance Diagnostics Data Visualization", RM183,800.00, 1/3/2016-31/8/2017.

7. PJP/2016/FTMK/HI2/S01469, "The development of Short Message system (SMS) Gateway for PRIM", RM66,000.00, 1/3/2016-31/8/2017.

8. PJP/2016/FTMK/HI2/S01470 ,"The development of Test and Examination Module for PRIM", RM66,000.00, 1/3/2016-31/8/2017.

9. PJP/2016/SILTERRA/FTMK-CACT/S01509 ,"Big Data Storage Allocation Optimization for Manufacturing Execution System (MES) Using Evolutionary Algorithm ",RM15,000.00, 1/11/2016-31/8/2017.

10. PJP/2017/FTMK-CACT/S01573, "Improving the Quality of Software Requirements Specification (SRS) Through a Boilerplate Technique", RM25,000.000, 1/6/2017-30/11/2018.

11. PJP/2017/IPTK/S01521, "UTeM Integrated Personality Profiling System (UTeM i-Pro), RM88,900.00, Duration 1/1/2017-31/1/2018.

Industrial Grant (Member)
12. Gluar/TUXURI/2017/FTMK-CACT/I00031, "Location Intelligence Based Vehicle Tracking and Fleet Management System", RM25,000.00, 1/10/2017-30/9/2019.

13. GLUAR/MUSTREAD/2017/FPTT-CTED/I00029, "Development Of Online Integrated Sales System: A New Smart Platform Of Dropshipping Supply", 2017-2018.

Knowledge Transfer Program Grant (**Member)**
14. GLuar/KTP/1/2014/FTMK/FK/G00021, "Parental Relationship Information Mangement (PRIM)" – Transfer of Knowledge to Community, RM78,000, 1/1/2014 – 31/12/2014.
15. GLuar/KTP/1/2016/FTMK-CACT/LLS/G00046, "Sistem Pengurusan Maklumat Kesihatan Warga Emas"– Transfer of Knowledge to Community, RM52,275. 15/1/2017-14/1/2018.

Public-Private Research Network (PPRN) Grants (Member)
16. GLuar/PPRN/2015/FTMK/G00033, "Voice Navigation Sdk For Android Based Application", RM30,000, 15/3/2015-15/9/2015.

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