# MOHAMAD HAIDER B. ABU YAZID

B.Sc. Computer Science (UTM)
M.Sc. Computer Science (UTM)
Ph.D. Computer Science (UTM)

## PERSONAL DETAILS

**DATE OF BIRTH**
04-12-1988

**NATIONALITY**
Malaysia

**MARITAL STATUS**
Married

**PHONE**
+60-17-9480838

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mohamadhaider@utm.my
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**ADDRESS**
No 72, Jalan Batai 5,
Taman Sri Pulai,
81300 Skudai, Johor Bahru,
Johor Darul Takzim,
Malaysia

## AREAS OF EXPERTISE

Machine Learning Application for Healthcare

Machine Learning Application for Non-Intrusive Inspection System

Quality Management for Non - Intrusive Inspection System

## OTHER SKILLS

Project Management

Research Management

Quality Management System

Tender/Proposal Writing

Academic Writing

## ABOUT ME

Inspired to be an educator, developer, and innovator in the data analytics field. Experienced in conducting research regarding the data analytics and application of machine learning in several fields including computer networks, healthcare, and non-intrusive inspection. Envision to create an entity that applied theoretical research into real-world applications. Believe that attitude, efforts and vision are the keys to a successful venture.

## EDUCATION

**UNIVERSITI TEKNOLOGI MALAYSIA**
2021 | *Doctor of Philosophy (Computer Science)* |

Thesis :
Acute Decompensated Heart Failure Mortality Prediction Based on Fuzzy Flower Pollination Trained Neural Network

**UNIVERSITI TEKNOLOGI MALAYSIA**
2013 | *Master of Science (Computer Science)* |
CGPA- 3.57

Dissertation :
Scheduling of Routing Table Calculation Schemes in Open Shortest Path First Using Artificial Neural Network

**UNIVERSITI TEKNOLOGI MALAYSIA**
2009 | Bachelor of Science (Computer Science) |
CGPA - 3.00

**SEKOLAH MENENGAH SAINS SULTAN HAJI AHMAD SHAH (SEMSAS), KUANTAN.**
2004 | Science Stream
SPM - 9A1B
Malay - A2
English - A2

## SUMMARY OF WORKING EXPERIENCE

| | |
|---|---|
| RESEARCH | 3 YEARS |
| INDUSTRY | 5 YEARS |
| TOTAL EXPERIENCE | 8 YEARS |

### UNIVERSITI TEKNOLOGI MALAYSIA
MAY 2023 - NOW | Senior Lecturer |
- Tasked to conduct classes and research.

### VISI TEKNOLOGI UTAMA
FEB 2023 - APRIL 2023 | Manager |
- Tasked to manage company projects.

### BILLION PRIMA SDN BHD
MAC 2020 - JAN 2023 | Data Analyst |
- Tasked to initiate company product certification with the certification body.
- Tasked to create and implement Quality Management System for Non-Intrusive Inspection Equipment (ISO 9001-2015).
- Tasked with implementation of Good Distribution Practice for Medical Devices (GDPMD) system.
- Plan for potential systems and services for future development.
- Liaising with a research institutions for potential research collaboration.
- Plan for marketing strategy
- Prepare tender and project proposal to the potential client.
- Prepare MoU for collaboration.

### PAN ASIATIC TECHNOLOGIES SDN BHD
JAN 2020 - JAN 2023 | Data Analyst |
- Prepare technical documentation for tender.
- Prepare technical documentation for product handover.
- Conduct user training for Cargo Inspection System
- Liaising with clients regarding product and services.
- Monitor government and private procurement for related products.

### SENSENET SDN BHD
MAY 2018 - DEC 2019 | Data Analyst |
- Tasked to conduct research on the application of machine learning techniques to detect contraband inside cargo based on x-ray scanned images.

# WORKING EXPERIENCE

## SCHOOL OF BIOMEDICAL ENGINEERING AND HEALTH SCIENCES, UTM JB
AUG 2017 - APR 2018 | Research Assistant |

- Tasked to collect user requirement for Computerized Service and Maintenance System (CSMS) of Malaysian Armed Forces Hospitals.
- Conduct system testing for CSMS.
- Conduct user training for CSMS.
- Conduct research management and administration.

## HOSPITAGE SDN BHD
JAN 2017 - JUL 2017 | System Analyst |

- Tasked to collect user requirement for Medical Device Technical Competency Online System (MeDTCOMP).
- Conduct system testing
- Conduct user training.

## E-LIFE SOLUTIONS
OCT 2016 - DEC 2016 | Project Engineer |

- Tasked to conduct testing for Radiation Portal Monitoring prototype.

## SCHOOL OF COMPUTING, UTM JB
JAN 2013 - SEP 2013 | Assistant Research Officer |

- Tasked to conduct research on the application of machine learning techniques for healthcare particularly for optimization of cardiovascular clinical pathway.
- Artificial Neural Network is proposed to predict variance prediction in cardiovascular clinical pathway.

## SCHOOL OF COMPUTING, UTM JB
DEC 2010 - JUNE 2012 | Research Assistant |

- Tasked to conduct research on the application of machine learning techniques to solve routing table calculation scheduling issues for OSPF routing protocol
- Generalized Regression Neural Network scheduling scheme is proposed to optimized the scheduling of OSPF routing table calculations.

# PROJECT INVOLVEMENT

## 2022

- INSTALLATION AND COMMISSIONING OF ONE UNIT CARGO SCANNER AT KUANTAN PORT SUPPLIED BY PAN ASIATIC TECHNOLOGIES

## 2021

- BILLION PRIMA GOOD DISTRIBUTION PRACTICE FOR MEDICAL DEVICES CERTIFICATION
- IMAGE REFERENCES SYSTEM FOR RMCD CARGO SCANNER
- INSTITUT JANTUNG NEGARA CLINICAL RESEARCH DATABASE
- BILLION PRIMA APPLICATION TO NATIONAL TECHNOLOGY AND INNOVATION SANDBOX (NTIS)

## 2020

- INSTALLATION AND COMMISSIONING OF ONE UNIT CARGO SCANNER AT TANJUNG KUPANG IMPORT SUPPLIED BY PAN ASIATIC TECHNOLOGIES
- INSTALLATION AND COMMISSIONING OF TWO UNIT CARGO SCANNERS AT WESTPORT CT1 SUPPLIED BY PAN ASIATIC TECHNOLOGIES
- BILLION PRIMA PRODUCT INTERNATIONAL CERTIFICATION

## 2018

- HYDRODYNAMIC SYSTEM SHIP SIMULATOR FOR ROYAL MALAYSIAN NAVY
- MDA MEDICAL DEVICE TECHNICAL COMPETENCY ONLINE SYSTEM (MEDTCOMP)
- RMCD SCANNER MANAGEMENT SYSTEM
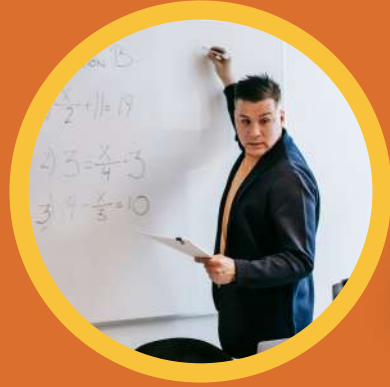- MYATR (AUTOMATIC THREAT RECOGNITION) FOR CARGO SCANNER

## 2017

- OPTIMUM PLACEMENT OF PIEZO-POLYMER POWER HARVESTER FOR EPICARDIAL PACEMAKER
- MYRPM (RADIATION PORTAL MONITOR
- MAINTENANCE SYSTEM (CSMS) FOR MALAYSIAN ARMED FORCES HOSPITALS

## 2013

- DATA MINING FOR CARDIOVASCULAR CLINICAL PATHWAYS

## 2010

- SCHEDULING OF ROUTING TABLE CALCULATION FOR OSPF ROUTING PROTOCOL USING COMPUTATIONAL INTELLIGENCE

# OTHER DETAILS

## INTELECTUAL PROPERTY

### PATENT

2021

**A SYSTEM AND METHOD FOR CARGO INSPECTION**
- APPLICANT: BILLION PRIMA SDN BHD
- ROLES: CO-INVENTOR

**A SYSTEM AND METHOD OF THREAT ANALYSIS IN CARGO INSPECTION**
- APPLICANT: BILLION PRIMA SDN BHD
- ROLES: CO-INVENTOR

## OTHER ENGAGEMENT

**INDUSTRIAL ADVISORY PANEL**
2021 | Faculty of Engineering UTM

**KRT JALAN BATAI, TAMAN SRI PULAI**
2022 - 2023 | Deputy Chairman

# PUBLICATION

## PUBLICATION IN NUMBERS:

**BOOK CHAPTER** 1

**JOURNAL** 5

**14 TOTAL PUBLICATIONS**

**PROCEEDING** 8

**NON INDEXED** 1

**INDEX** 4

**5 JOURNAL PUBLISHED**

**NON INDEXED** 1

**INDEX** 7

**8 PROCEEDINGS PUBLISHED**

## JOURNAL

### 2021

**MORTALITY PREDICTION FOR ACUTE DECOMPENSATED HEART FAILURE PATIENT USING FUZZY NEURAL NETWORK**

- MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES
- ISI AND SCOPUS INDEXED
- MAIN AUTHOR

### 2019

**HEART DISEASE CLASSIFICATION FRAMEWORK USING FUZZY AND FLOWER POLLINATION NEURAL NETWORK**

- JOURNAL OF ADVANCED TRENDS IN COMPUTER SCIENCE AND ENGINEERING
- SCOPUS INDEXED
- MAIN AUTHOR

### 2018

**CLINICAL PATHWAY VARIANCE PREDICTION USING ARTIFICIAL NEURAL NETWORK FOR ADHF CLINICAL PATHWAY**

- MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES
- ISI AND SCOPUS INDEXED
- MAIN AUTHOR

### 2017

**ANALYSIS OF INSURANCE NOMINATION PRACTICES IN SINGAPORE ACCORDING TO THE OBJECTIVES OF SHARI'AH IN ISLAMIC LAW**

- ISLAMIC QUARTERLY
- SCOPUS INDEXED
- CO-AUTHOR

# PUBLICATION

## 2016

### THE PROMISE IN THE CONTRACT OF ISLAMIC LAW: A SPECIAL FOCUS ON PROMISE CONTRACT

- MEDITERRANEAN JOURNAL OF SOCIAL SCIENCES
- NON INDEXED
- CO-AUTHOR

## PROCEEDING

## 2021

### HEART FAILURE MORTALITY PREDICTION USING MACHINE LEARNING

- INTERNATIONAL CONFERENCE ON APPLIED COMPUTING, VIRTUAL CONFERENCE
- NON INDEXED
- MAIN AUTHOR

## 2019

### FLOWER POLLINATION NEURAL NETWORK FOR HEART DISEASE CLASSIFICATION

- IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING, BANGKOK THAILAND
- SCOPUS INDEXED
- MAIN AUTHOR

### LEFT VENTRICLE HEART THREE DIMENSION MECHANICAL SIMULATION FOR KINETIC ENERGY

- 6TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTER SCIENCE AND INFORMATICS (EECSI), BANDUNG INDONESIA
- SCOPUS INDEXED
- CO-AUTHOR

# PUBLICATION

**2018**

**ARTIFICIAL NEURAL NETWORK PARAMETER TUNING FRAMEWORK FOR HEART DISEASE CLASSIFICATION**

- 5TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTER SCIENCE AND INFORMATICS (EECSI), MALANG INDONESIA
- SCOPUS INDEXED
- MAIN AUTHOR

**2017**

**NEURAL NETWORK ON MORTALITY PREDICTION FOR THE PATIENT ADMITTED WITH ADHF (ACUTE DECOMPENSATED HEART FAILURE**

- 4TH INTERNATIONAL CONFERENCE ON ELECTRICAL ENGINEERING, COMPUTER SCIENCE AND INFORMATICS (EECSI), YOGYAKARTA INDONESIA
- SCOPUS INDEXED
- MAIN AUTHOR

**ARTIFICIAL NEURAL NETWORK IN CLINICAL PATHWAY PREDICTION: GENERAL FRAMEWORK**

- INTERNATIONAL MEDICAL DEVICE AND TECHNOLOGY CONFERENCE, SKUDAI MALAYSIA
- NON-INDEXED
- MAIN AUTHOR

**2011**

**SCHEDULING OF OSPF ROUTING TABLE CALCULATION USING GENERALIZED REGRESSION NEURAL NETWORK**

- 17TH IEEE INTERNATIONAL CONFERENCE ON NETWORKS, SINGAPORE
- SCOPUS INDEXED
- CO-AUTHOR

# PUBLICATION

## COMPARISON OF INTELLIGENT SCHEMES FOR SCHEDULING OSPF ROUTING TABLE CALCULATION

- 11TH INTERNATIONAL CONFERENCE ON HYBRID INTELLIGENT SYSTEM, MALACCA MALAYSIA
- SCOPUS INDEXED
- MAIN AUTHOR

## BOOK CHAPTER

2021

## INTEGRATED FUZZY AND NEURAL NETWORK IN MORTALITY

- INTELLIGENT DATA ANALYSIS: TECHNOLOGIES AND FUTURE TRENDS
- PENERBIT UTM
- MAIN AUTHOR

# TEACHING EXPERIENCE



## TUTOR/TEACHING ASSISTANCE

2017 - 2018 -SEMESTER 1
- **LABORATORY 3 (SMBE 4083)**

2017 - 2018 -SEMESTER 2
- **ARTIFICIAL INTELLIGENCE (SMBE 4083)**
- **LABORATORY 3 (SMBE 4083)**

2018 - 2019 -SEMESTER 1
- **ARTIFICIAL INTELLIGENCE (SMBE 4083)**
- **LABORATORY 3 (SMBE 4083)**

2018 - 2019 -SEMESTER 2
- **ARTIFICIAL INTELLIGENCE (SMBE 4083)**

## SENIOR LECTURER

2023 - 2024 -SEMESTER 1
- **IT IN BUSINESS (SFMD 1063)**
- **ENTERPRISE INFORMATION SYSTEMS (MBSC 2623)**
- **PRODUCT CREATIVITY AND INNOVATION (MBSM 1323)**
- **INFORMATION SYSTEM RESEARCH METHODOLOGY PRACTICE (PBSM 1533)**

# REFERENCS

**DR. MUHAMMAD HAIKAL SATRIA**
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**DR. MOHAMAD SHUKOR TALIB**
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