



## FARRAH MASYITAH BINTI MOHD SHUIB

PENSYARAH UNIVERSITI DS11

### CONTACT

**Phone:** 8730

**E-mail:** farrah@usim.edu.my

**Address:** Fakulti  
Kejuruteraan Dan Alam Bina

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 1, Ongoing: 0

### AREAS OF EXPERTISE

Image Processing And Computer Vision

Ic Design

Information, Computer And Communication Technologies

### BIOGRAPHY

A lecturer from Fakulti Kejuruteraan Dan Alam Bina. Holds a Master in Electronic.

### ACADEMIC QUALIFICATION

Master in Electronic (2010)

Bachelor in Elektrik (intrumentasi) (2007)

Diploma in Elektrik (intrumentasi) (2003)

### RESEARCH

1. NEW POLYNOMIAL FOR LINEAR FEEDBACK SHIFT REGISTERS  
(LFSRS)-BASED A5/1 STREAM CIPHERS FOR GSM COMMUNICATIONS

2013

COMPLETED

MAIN RESEARCHER

## PUBLICATION

---

1. INSULATED PIERCING CONNECTOR (IPC) TORQUE PREDICTION USING RANDOM FOREST (RF) MODEL AND CLUSTERING USING K-MEANS MODEL FOR LOW VOLATGE OVERHEAD DISTRIBUTION NETWORKS

2025 PROCEEDING

2. INSULATED PIERCING CONNECTOR (IPC) TORQUE PREDICTION USING RANDOM FOREST (RF) MODEL AND ANAMOLY DETECTION USING ISOLATION FOREST FOR LOW VOLTAGE OVERHEAD NETWORK

2025 PROCEEDING

3. SURFACE PLASMON RESONANCE BASED PCF SENSOR FOR DOM DETECTION

2024 PROCEEDING

4. SINGLE MODE FIBER BASED SPR SENSOR FOR THE DETECTION OF AIR CONTAMINANTS

2024 PROCEEDING

5. A5/1 STREAM CIPHER IN GSM (EMPIRICAL PERSPECTIVES)

2024 CHAPTER IN BOOK

6. CRYPTOGRAPHY (STREAM CIPHER) IN HARDWARE IMPLEMENTATION

2023 CHAPTER IN BOOK

7. ANALYSIS OF MOTION DETECTION OF BREAST TUMOR BASED ON TISSUE ELASTICITY FROM B MODE ULTRASOUND IMAGES USING GRADIENT METHOD OPTICAL FLOW ALGORITHM

2013 PROCEEDING

8. ANALYSIS OF MOTION DETECTION OF BREAST TUMOR BASED ON TISSUE ELASTICITY FROM B MODE ULTRASOUND IMAGES USING GRADIENT METHOD OPTICAL FLOW ALGORITHM

2013 PROCEEDING

9. ANALYSIS OF MOTION DETECTION OF BREAST TUMOR BASED ON TISSUE ELASTICITY FROM B MODE ULTRASOUND IMAGES USING GRADIENT METHOD OPTICAL FLOW ALGORITHM

2013 PROCEEDING

## CONSULTATION/ADULATION

---

1. PANEL PENILAI THESIS

2017 UNIVERSITY USIM

2. PROPOSAL DEFEND FYP EE

2017 UNIVERSITY USIM

3. DESIGN AND HARDWARE IMPLEMENTATION OF MIDIFIED A5/1 STREAM CIPHER

2017 UNIVERSITY USIM

4. PANEL PENILAI LATIHAN INDUSTRI EE

2017 UNIVERSITY USIM

5. JURI YOUNG INNOVATION 2016

2016 UNIVERSITY PIJIM USIM & PERMATA

# AWARDS/RECOGNITION

---

## 1. PHD POST FOR IOT SYSTEM FOR DIALYSIS MACHINE IMEN UKM

2017

NATIONAL

## 2. SILVER MEDAL BOLA TAMPAR SUFAST 2016

2016

UNIVERSITY

## 3. ANUGERAH INOVASI IINOVA 2013, ANALYSIS OF MOTION DETECTION OF BREAST TUMOR USING OPTICAL FLOW ALGORITHM USING B MODE ULTRASOUND IMAGES (SILVER MEDAL)

2013

INTERNATIONAL

## 4. SILVER MEDAL BOLA TAMPAR SUFAST 2013

2013

UNIVERSITY

## 5. MOTION DETECTION OF BREAST TUMORS BASED ON TISSUE ELASTICITY FROM B MODE ULTRASOUND IMAGES USING GRA

2013

Kebangsaan

Bronze