RESEARCHER PROFILE

Scopus 57190186276

ORCID 0000-0001-9294-2465

Google NUR BAINI ISMAIL

EDUCATION

- PhD in Applied Mathematics, University of Bradford, UK
- MsC in Applied Mathematics, USM
- B. Sc in Applied Mathematics (Computer Modelling), USM

AREAS OF EXPERTISE

- Computer Aided Geometric Design
- Facial Action Unit Modelling

SUPERVISION

DR. NUR BAINI BINTI ISMAIL
SENIOR LECTURER

With a focus on Computer-Aided Geometric Design (CAGD) and Facial Action Unit Modelling, Dr. Baini explores the intersection of computational geometry and human-centric applications. Her work in CAGD delves into advanced geometric algorithms for designing and analyzing complex shapes, enabling innovations in industries ranging from automotive to animation. Complementing this, her research in facial action unit modeling applies machine learning and statistical techniques to decode subtle facial expressions, paving the way for advancements in human-computer interaction, emotion recognition, and healthcare diagnostics.

CONTACT
- +6019-2633845
- baini@umt.edu.my
- fskm.umt.edu.my

SELECTED RESEARCH PROJECTS

- KTAGS from UMT. Matematik di Hati: Rekreasi Matematik Melalui Alam, KTAGS 2022. Leader. RM 7,000.00

SELECTED PUBLICATIONS

- Norhayati Ahmat, Jiyar Jafar Ahmed, Azhar Ahmad, Norazman Arbin, **Nur Baini Ismail** & Syafinaz And. Rashad. (2021). Red Blood Cell Shapes Parameterization Using Partial Differential Equations. Review of International Geographical Education (RIGEO), 11(4), 842-849.

- Ugail H and **Ismail NB** (2016) Method of modelling facial action units using partial differential equations. In: Kawulok M, Celebi E M and Smolka B (Eds.) Advances in face detection and facial image analysis. Springer. 129-143.

"Revolutionizing design and emotion-aware technology through computational innovation.