Senior Lecturer
Dr. W Mimi Diyana W Zaki
Ph.D, IEEE, BEM

E**XPERTISE**

- *Medical image analysis and retrieval.*
- *Digital image and video processing.*

RE**SEARCH**

- *Intelligent software tools for medical image processing, analysis and diagnosis.*
- *A study of retinal vascular in digital fundus image using image processing approach.*
- *Ocular diseases in ASPI screening system.*

PR**OFESIONAL AFFILIATIONS**

- *BEM- Electronic (47224R)*
- *IEEE (91116045)*
- *IAENG – from 2008*

C**ONTACT**

office | +603-8911 6327
mobile | +6013-2040045
e-mail |
wmdiyana@ukm.edu.my

RID | G-8420-2011
ORCID ID| 0000-0002-9060-0346
Scopus Author ID| 14621632200
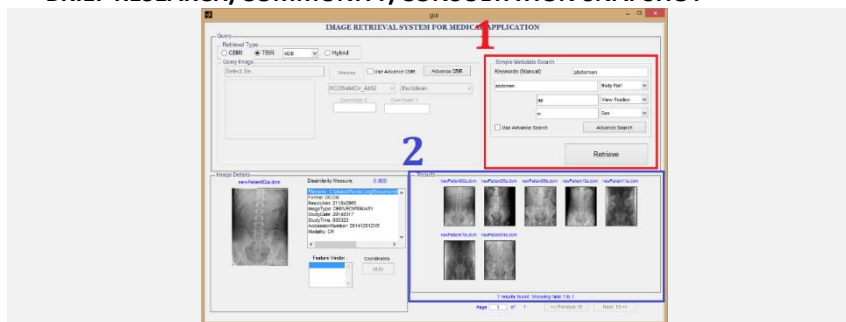
BRIEF RESEARCH/COMMUNITY/CONSULTATION SNAPSHOT

Fig. 1. Medical image retrieval system.

Fig. 3 Tele- consultation for ocular diseases screening system.
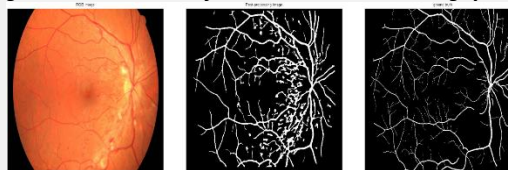

Fig. 3. Image processing techniques applied on the high resolution digital fundus image.

SELECTED PUBLICATIONS

1. *"Diabetic retinopathy assessment: Towards an automated system,"* (2016) J Biomedical Sig Proc and Control. 24(1), pp.72-82.
2. *"Lung segmentation on standard and mobile chest radiographs using oriented Gaussian derivatives filter,"* (2015) Biomedical Eng Online. 14(20), pp.1-26.
3. *"Camera-based toddler fall detection system by using kalman filter,"* (2015) JTAIT. 81(2), pp.383-388.
4. *"Design and development of a content-based medical image retrieval system for spine vertebrae irregularity,"* (2015) Biomedical Eng Online. 14(6), pp.1-24.
5. *"A review on the diabetic retinopathy assessment based on retinal vascular tortuosity,"* (2015) The 11th CSPA, pp.119-122.
6. *"Enhancement techniques for MRI human spine images,"* (2015) J Teknologi. 77(6), pp.19-24.
7. *"Content-based medical image retrieval system for infections and fluids in chest radiographs,"* (2014) LNCS in AI and Bioinformatics. 8870, pp.14-23.
8. *"Enhancement of Background Subtraction Techniques Using a Second Derivative in Gradient Direction Filter,"* (2013) J Elec and Comp Eng., pp.1-23.
9. *"Performances of Invariant Feature Detectors in Real-Time Video Applications,"* (2013) Adv in Visual Informatics, pp.193-205.