

Senior Lecturer
Dr. Rosmina Jaafar
Ph.D, M.IEEE, M.IEM

EXPERTISE

- Photoplethysmography
- Medical Electronics & Instrumentation

RESEARCH

- Biomedical Engineering
- Biomedical Signal Processing

PROFESIONAL AFFILIATIONS

- *IEM Biomedical (74557)*
- IEEE Member (90834410)
- IEEE Member EMBS
- Certified Good Clinical Practise (2009)

CONTACT

office | +603-8921 7150 mobile | +6016-322 8432 e-mail | rosmina@ukm.edu.my

RID | M-1501-2016 ORCID ID| 0000-0001-8019-0446 Scopus Author ID| 35746096300

BRIEF RESEARCH/COMMUNITY/CONSULTATION SNAPSHOT

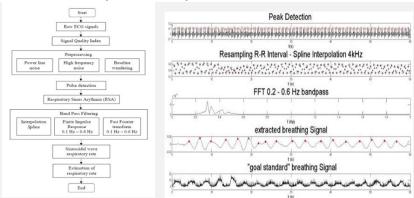


Fig. 1. Respiratory rate estimation with single-lead ECG and PPG acquisition module

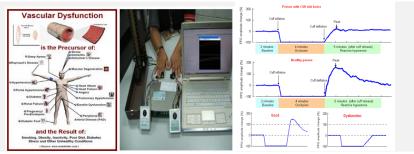


Fig. 2. Endothelial dysfunction assessment by photoplethysmography

SELECTED PUBLICATIONS

- 1. "A portable respiratory rate estimation system with a passive single-lead electrocardiogram acquisition module" (2016) Technology and Health Care, 24, pp.591-597.
- "Breathing Rate Estimation from a Single-lead Electrocardiogram" (2015) International Journal of Applied Engineering Research, 10(17), pp. 38154-38158.
- 3. "The Significance Change of PPG Reflection Index in Left Ventricular Hypertrophy Risk Individual" (2014) International Journal of Scientific & Engineering Research, 5(1), pp.712-717.
- "Estimation of Brachial Artery (BA) Diameter in Response to Flow Mediated Dilation (FMD) Through Image Analysis Technique," (2012) Asia-Pacific Symposium on Applied Electromagnetics & Mechanics, 25-27th July 2012, pp.418-422.
- "Noninvasive Blood Pressure (NIBP) Measurement by Oscillometric Principle," (2011) Int. Conf. on Instrumentation, Communication, Information Technology & Biomedical Engineering (ICICI-BME 2011), 8-9th Nov 2011, pp.265-269.
- "Non-invasive techniques for assessing the endothelial dysfunction: ultrasound versus photoplethysmography," (2008) 13th Int. Conf. on Biomedical Engineering, 3-6th Dec 2008, IFBME Proceeding 23, pp.65-68.
- 7. "A Statistical Model to Estimate Flow Mediated Dilation Using Recorded Finger Photoplethysmogram," (2008) 13th International Conference on Biomedical Engineering, 3-6th Dec 2008, IFBME Proceeding 23, pp.18-21.
- "Finger photoplethysmogram pulse amplitude changes induced by flow mediated dilation" (2008) Physiological Measurement, 29(5), pp.625-637.