



* Centre For Emerging Technologies in Computing

Leader:

Dr. Deshinta Arrova Dewi

Email: deshinta.ad@newinti.edu.my

Description of projects:

Projects in CETC concentrate on computing and its emerging technologies such as software engineering, cloud computing, data analytics, artificial intelligence, blockchain technology, cyber and information security, the Internet of Things (IoT), and others that lead to new inventions and innovations.

The main objectives of CETC are:

1. To promote and conduct research in the areas of computing and emerging technologies.
2. To develop knowledge and research capability by promoting research funding and publication.
3. To develop multi-disciplinary research collaboration between the university and external stakeholders.
4. To strengthen research facilities in the area of computing and emerging technologies.
5. To promote the development and commercialization of research products.

The main activities of CETC are:

1. Research (goal: publication and/or local and/or international grant)
2. Innovation (goal: intellectual property (patent) and commercialization)
3. Consultancy (goal: national/international collaboration)



Research Members:

1. AP. Ts. Dr. Choo Wou Onn (Information System)
2. AP. Dr. Malathy Batulamay (Optical Fiber)
3. Dr. Maryam Khanian (Data Analytics)
4. Ms. Mohana Muniandy (UX Design)
5. Ms. Norain Rosly (Image Processing)
6. Ms. Amirul Azuani (Image Processing)
7. Ms. Harprith Kaur (Data Analytics)
8. Mr. P. Kannan (Network and Security)
9. Mr. Zul Hilmy (Cloud Computing)
10. Mr. Danial Kafi (Software Engineering)
11. Mr. Mohd. Hafiz (Information Security)

Patent:

Patent Number:
PI 2018003069

Researchers:

Deshinta A. Dewi / Edward Salim

Patent's Title:

Development of Multimedia e-Module Nusantara Civilization History Map for High Schoolers to Enhance Learning

Patent Number:
PI 2018003071

Researchers:

Sarasvathi Nagalingam /Chelsea

Patent's Title: Study and Implementation of Internet of Things (IoT) Based Forest Fire Automation System to Detect and Prevent Wildfire.

Selected Publications:

[1] Object Detection Without Color Feature: Case Study on Autonomous Robot (June 2019)
Deshinta Arrova Dewi, Elankovan Sundararajan, Anton Satria Prabuwo, Lau Meng Cheng.
International Journal of Mechanical Engineering and Robotics Research. [SCOPUS]
DOI: 10.18178/ijmerr.8.4.646-650.

[2] InstantSL: A Sign Language Model to Support Two-Way Communication between Aurally Impaired Communities with Others. (June 2019)



Deshinta Arrova Dewi, Harprith Kaur, Mohammad Abbas Husaini. International Journal of Innovative Technology and Exploring Engineering (IJITEE) [SCOPUS]

[3] The State of the Art and Taxonomy of Big Data Analytics: View from New Big Data Framework Artificial Intelligence Review (February 2019) Maryam Khanian Najafabadi, Azlinah Mohamed, Choo Wou Onn. . [SCOPUS]
<https://doi.org/10.1007/s10462-019-09685-9>

[4] An Impact of Time and Item Influencer in Collaborative Filtering Recommendations Using Graph-Based Model. (May 2019) Azlinah Mohamed, Maryam Khanian Najafabadi, Bee Wah Yap, Ezzatul Akmal Kamaru Zaman, Ruhaila Maskat. Information Processing & Management [SCOPUS]
DOI: 10.1016/j.ipm.2018.12.007

[5] Content-Aware Resource Allocation Model for IPTV Delivery Networks. Suliman M. Fati, Putra Sumari and Choo Wou Onn. (February 2019). International Journal of Electrical and Computer Engineering (IJECE) [SCOPUS].
DOI: 10.11591/ijece.v9i1.pp369-385

[6] Automatic Folder Allocation System for Electronic Text Document Repositories Using Enhanced Bayesian Classification Approach. Wou Onn Choo, Yen Pei Tay, Lam Hong Lee, Khang Wen Goh and Dino Isa (April 2019). International Journal of Intelligent Information Technologies. 15(2) [SCOPUS]
DOI: 10.4018/IJIT.2019040101