IEEE

IEEE Malaysia Section Newsletter
IEEE Sarawak Subsection

Reported by Ong Chin Ann
ongca@ieee.org
http://sarawak.ieeemy.org/

Co-creation and Design Thinking in Programming

The IEEE Workshop on Co-Creation and Design Thinking in Programming was conducted on 13 Nov 2019. This workshop was funded from the Region 10 Educational Activities 2019 (University Category). The facilitator of the workshop includes Assoc. Prof. Dr. Fitri Suraya Mohammad from CreativeCulture as well as both Dr. Jacey-Lynn Minoi and Ir. Dr. David Bong from University Sarawak Malaysia (UNIMAS) who is also the EXCO Member of IEEE Sarawak Subsection.

The workshop presents the basic concept on Design Thinking and cocreation though playful approach in developing gamified content for teaching and learning programming. Participants are to develop prototype with programming knowledge and two awareness educational games on cyber-bullying were designed and developed.

The workshop received positive reaction from participants i.e. satisfaction, fulfilment, increase interest of educational experience, motivated and positive psychological effects.

Robotic Competition 2019

On 23 Nov 2019, the IEEE Sarawak Subsection in collaboration with Swinburne University of Technology Sarawak hosted the second edition of IEEE Sarawak Robotics Competition here in Kuching. The competition aims to nurture and stimulate students' interest in the area of STEM (Science, Technology, Engineering and Mathematics).

This competition also serves as a platform for students to demonstrate their creativity and innovativeness in solving engineering and technology problem. Furthermore, the participants were also expected to develop their ability to work in a team and cultivate their spirit of sportsmanship.

A total of 40 secondary school students competing in Junior (Forms 1-3 and equivalent) and Senior (Forms 4-6 and equivalent) categories. In both categories, the participants were not only tested for the lap time but also on the robot performance and the technical robustness of the algorithm that they designed.

Gamification Seminar 2019

The 2nd Gamification Seminar held on the 5th December 2019 at the myCapsule Space, Universiti Malaysia Sarawak (UNIMAS). Inspired by the concept of frugal innovation, this year's theme "Playful Frugal Innovation' signifies the continuous quest to address the resonating need for ideas in teaching with minimal cost. This year's seminar celebrated the co-creation of ideas, which was constructed through limited means and materials. About 100 participants joined the seminar.

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IEEE Sarawak SIGHT Founded

The idea of establishing a SIGHT group for Sarawak community was discussed among IEEE Sarawak Subsection executive members and the chair for Humanitarian Technology Activities, Dr. Then Yi Lung. An official petition campaign was submitted to IEEE SIGHT in Jun 2019. The idea was accepted and IEEE Sarawak SIGHT was founded since then. The group is proud to receive an amount of USD4000 after submitting a project proposal to IEEE SIGHT.

The fund will be utilized for community project in Kg. Salak, a fishing village located 15km north from downtown Kuching. It was known as Alternative Lighting Project since 2018, and this year, the volunteers built a system using cycling mechanism to charge battery and then supply to the lighting system around the school compound.

A total of 4 bicycles was donated to the school and it was hoped that students will learn the process of energy conversion in a fun and engaging way. The group is aiming to implement the system at all primary schools in Sarawak which is in line with the Sarawak government's initiative to promote STEM activities in school. The group hope to receive more funding support and volunteers to bring success for this meaningful project.

8th IEEE R10 Humanitarian Technology Conference 2020 (R10HTC2020) – Call for Papers

IEEE R10 Humanitarian Technology Conference
1st – 3rd December 2020
Kuching, Sarawak, Malaysia

Moving forward, the **IEEE R10 HTC 2020** will be held in Kuching, Malaysia **from 1 – 3 Dec 2020**. The conference is hosted by IEEE Sarawak Subsection with the theme "*Digital Ecosystem for Humanity*". This is the premier annual cross disciplinary conference that provides a common platform for engineers, technologists, scientists, investors, representatives from NGOs, governments, academia and the industry to discuss recent advances in Humanitarian Technologies.

The conference promotes discussions and presentations from the fields of Electrical & Electronic Engineering, Artificial Intelligence, Computing & IT, Security, Disaster Management, Smart Cities & Villages, Industrial Revolution 4.0, Digital Commerce, Education, Healthcare and relevant areas of research.

The committee invites all interested participants to submit original papers and join the conference in Kuching, a city on the island of Borneo.

IMPORTANT DATES:

- Submission Opens – Dec 1, 2019
- Special Session & Workshop Proposal – Jan 1, 2020
- Full Paper Submission – Apr 30, 2020
- Notification of Acceptance – Jun 30, 2020
- Final Camera-ready Paper Submission – Jul 31, 2020
- Author's Registration – Sep 30, 2020

For more info, please visit https://r10htc2020.org/