



## **CONFERENCE PROCEEDINGS**

**4th ICSTR Bangkok – International Conference on Science & Technology  
Research, 17-18 October 2019**

**17-18 October 2019**

## **CONFERENCE VENUE**

**KU Home, Kasetsart University, Chatuchak, Bangkok, Thailand**

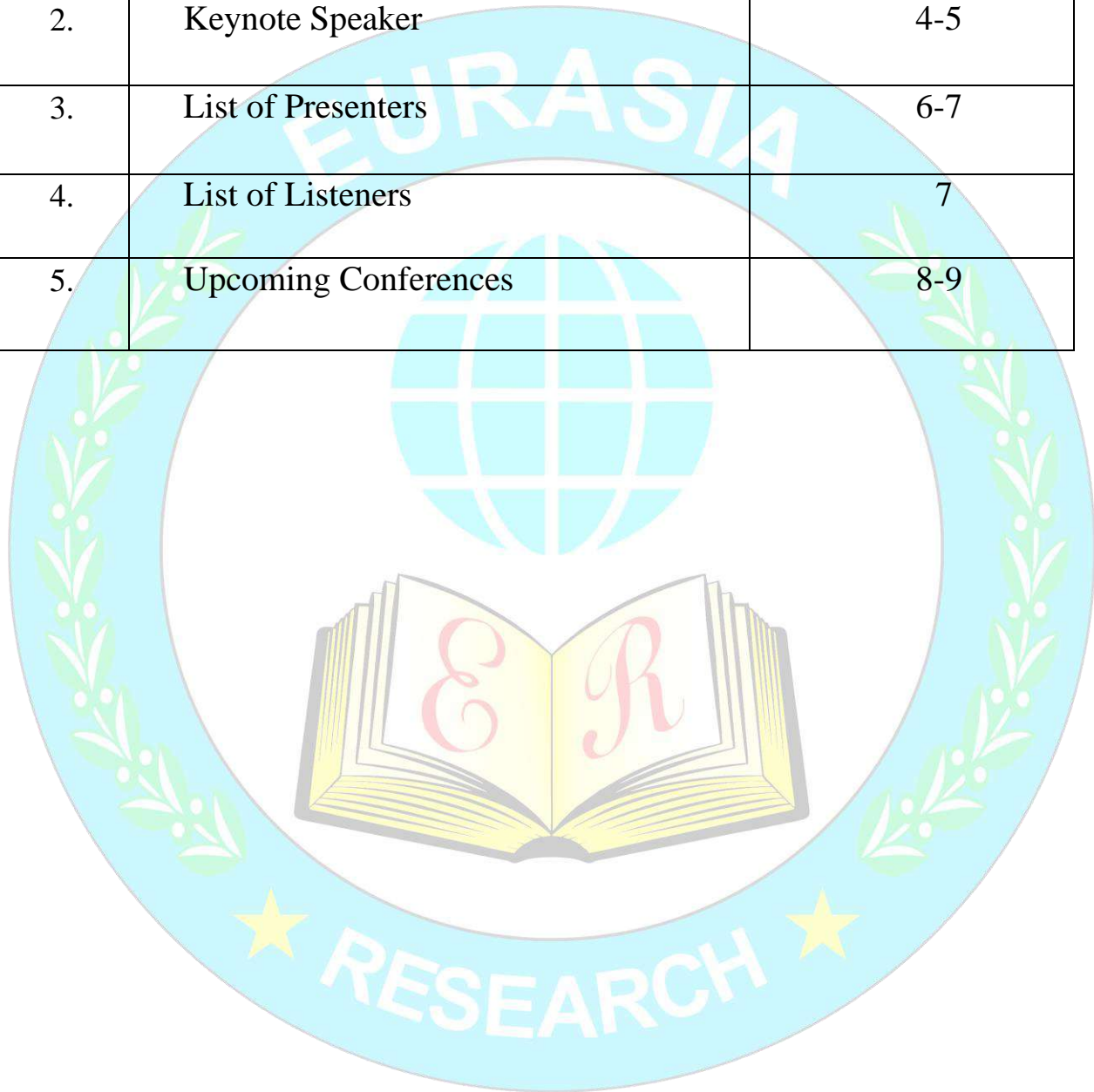
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**Preface:**

Scientific & Technical Research Association (STRA) is a conglomeration of academia and professionals for promotion of research and innovation, creating a global footprint. STRA aims to bring together worldwide researchers and professionals, encourage intellectual development and providing opportunities for networking and collaboration. These objectives are achieved through academic networking, meetings, conferences, workshops, projects, research publications, academic awards and scholarships. STRA strives to enrich from its diverse group of advisory members. Scholars, Researchers, Professionals are invited to freely join STRA and become a part of a diverse academic community, working for benefit of academia and society through research and innovation.

For this conference around 65 Participants from around 11 different countries have submitted their entries for review and presentation.

STRA has now grown to 3055 followers and 1562 members from 42 countries.

Membership in our scholarly association STRA is completely free of cost.

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Proceedings is a book of abstracts, all the abstracts are published in our conference proceedings a day prior to the conference.

You can get our conference proceedings at: <https://straweb.org/conference/proceedings/>

We hope to have an everlasting and long term friendly relation with you in the future.

In this context we would like to share our social media web links:

<https://www.facebook.com/wasrti/>

You will be able to freely communicate your queries with us, collaborate and interact with our previous participants, share and browse the conference pictures on the above link.

Our mission is to make continuous efforts in transforming the lives of people around the world through education, application of research & innovative ideas.

## **KEYNOTE SPEAKER**



**Dr Yin Ling Lai**

### **Dean for the Faculty of Engineering and Quality Surveying at INTI International University, Malaysia**

Dr Lai, Yin Ling obtained her BEng and MSc in Chemical Engineering in Universiti Putra Malaysia. She subsequently embarked on to the journey of building her career in the higher education industry and pursued her PhD on a part-time basis in Universiti Putra Malaysia instead of commencing the PhD in Nanyang Technological University, Singapore as a teaching assistant. Through extensive work and partnerships with foreign partner universities and regional educational institutions, she has an in-depth understanding of the cultural differences in the management and practice of students from different backgrounds. The responsibilities and skills that she has harnessed accrued from being a Programme Coordinator to Head of School to the Founding Dean of a successful and large University Faculty in Malaysia. With more than 15 years of experience in the higher education industry in Malaysia and Singapore, Dr Lai is currently the Dean for the Faculty of Engineering and Quality Surveying at INTI International University, Malaysia. Her work in the educational establishment necessarily entailed business development and growth management, partnership management and contract negotiation, resource management, strategic industrial partnership management, curriculum design and development, quality monitoring and review, management of day to day operation.

## **KEYNOTE SPEAKER**



### **Dr. Ralph E. Hammann, PH.D.**

**Professor in Architecture, University of Illinois at Urbana-Champaign, Illinois, USA**

**Topic: “Fire Hazard in High-rise Construction Due to Composite Aluminum Cladding Systems”**

Dr Hammann is a registered architect and LEED accredited professional with an extended professional background. As the previous Head of Design, Head of Programming and Master Planning in two major German firms, his portfolio includes medium to large scale projects for corporate and private clients across Europe and the U.S. He blends design excellence with building performance and environmental design in his research which focuses on technology and sustainable design. He is the author of two books *Creative Engineering*, *Energy Design for Tomorrow*, various book chapters and five entries in the *Encyclopedia of 20th Century Architecture*. With contributions to *PlusMinus 20°/40° Latitude: Sustainable Design for Tropical and Subtropical Climates* and *Advanced Building Systems: A Technical Guide for Architects and Engineers*, he translates timeless sustainable principles into technical and engineering advancements. He was appointed the Thomas D. Hubbard Professorship in Architecture in 2011.

## **PRESENTERS**

**Milano Carlitos  
Magsaysay  
ERCICSTR1923051**

### **Diverse Attachment between Humans and Robots**

**Althea Casilla**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Sophia Gamboa**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Matthew Gois**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Bryan Macalanda**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Milano Magsaysay**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Cristen Tolentino**

**Lorma Colleges Basic Education Department, San Juan, La Union, Philippines**

**Fernando P. Oringo**

#### **Abstract**

Robotics throughout the years, it has become a foundation that continues to open doors to many opportunities that lead to a greater impact in our society. Therefore it is a must to understand the capabilities of both humans and robots creating a co-operative relationship between them that can strengthen the bond. The main goal of our study is to be able to spread awareness on how robots or automatons can give us an advantage in life, how it can assist us in the things we need to do, especially towards the minority: those who have special needs that can possibly be catered by robots. The theoretical framework is based on how a robot's behavior can be evaluated by comparing it to another entity which is also capable of social interaction, which, in this case, are PWDs. The process we used for Data Procedures are using Coding, Thematization and Triangulation. With the data gathered by the researchers, functions and applications of robotics among people with disability were analyzed. The Human Robot Interaction among the perspective of PWD's such as its relationship and challenges of integration were also effective as it gives them a keen understanding that this could also benefit and help them whether, physically and mentally. We researchers conclude that the process of the interview conducted gave an opportunity to discover and understand the certain aspects concerning the PWD's. With this, it serves as a foundation that continues to develop and open doors to many opportunities that lead to a greater impact in our society.



**Ranjit Thakur  
ERCICSTR1923055**

### **In Vitro Phytochemical Screening, Antioxidant Potential and In Vivo Hepatoprotective and Renal Protective Activity of Amaranthus Viridis**

**Ranjit Thakur**

**Faculty of Life Science, Tribhuvan University, Nepal**

**Rakhi Das**

**Department of Biochemistry, Universal Engineering and Science College, Chakupat, Lalitpur, Nepal  
People's Dental college and Hospital Nayabazar, Kathmandu, Nepal**

**Bijay Kumar Das**

**Department of Biochemistry, Universal Engineering and Science College, Chakupat, Lalitpur, Nepal  
People's Dental college and Hospital Nayabazar, Kathmandu, Nepal**

**Rojina Shreshtha**

**Department of Biochemistry, Universal Engineering and Science College, Chakupat, Lalitpur, Nepal**

People's Dental college and Hospital Nayabazar, Kathmandu, Nepal

**Abstract**

The aim of the present study was to evaluate the antioxidant activity, phytochemical screening, hepatoprotective and renal protective activity of *Amaranthusviridis*. The leaf, seed and whole plant extracts of these plant were prepared in pure solvent methanol. The Phytochemical tests were performed qualitatively while the antioxidant activity was determined by 2,2-diphenyl-1-picrylhydazylhydrate (DPPH) method and the hepato and renal tests were carried out by enzymatic kits method. The study revealed that the methanol extract of seeds of *Amaranthusviridis* has shown effective antioxidant activity in DPPH assay technique. The study also showed liver and renal protective activity against paracetamol induced liver damage and Aspirin induced renal damage.  
**Keywords: Phytochemical screening, Antioxidant activity, Hepato and Renal Protective**



**Neha Thakur**  
ERCICSTR1923056

Using MATLAB/SIMULINK Speed control and THD Analysis of Induction Motor is Implemented

**Ms.Neha Thakur**

Department of Electrical & Electronics Engineering, Oriental University Indore, India

**Mr.Vikas Kumar**

**Mr.Somik Shrivastava**

**Abstract**

Sinusoidal Pulse Width Modulation variable speed drives are increasingly applied in many new industrial applications that require superior performance. Be it domestic application or industry, motion control is required everywhere. Recently, developments in power electronics and semiconductor technology have lead improvements in power electronic systems. Recent developments in speed control methods of the induction motor have led to their large scale use in almost all electrical drives. Variable voltage and frequency supply to ac drives is invariably obtained from a three-phase voltage source inverter, which is carrier-based sinusoidal PWM. Simulink is utilized with MATLAB to get a reliable and flexible simulation.

PWM technique is proven to be an effective way of controlling speed of induction motor. In ac motor drives, SPWM inverters make it possible to control both frequency and magnitude of the voltage and current applied to a motor. As a result, PWM inverter-powered motor drives are more variable and offer in a wide range better efficiency and higher performance when compared to fixed frequency motor drives. Three phase voltage-fed PWM inverters are recently showing growing popularity for multi-megawatt industrial drive applications. Simulation results are obtained using MATLAB/Simulink environment for effectiveness of the study.

**LISTENERS**

**Shemsu Mohammed**

Commercial Bank of Ethiopia, Sent Marry University, Addis Ababa, Ethiopia

ERCICSTR1923052

**Francine Mallee**

Founder B03 Consulting, B03 Consulting, Eindhoven, Netherlands

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**Chima Kizito Ehirim**

Queen Therapy Ventures, Lagos, Nigeria

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## Upcoming Conferences

<https://eurasiaresearch.org/stra>

- 4th ICSTR Singapore – International Conference on Science & Technology Research, 15-16 November 2019
- 5th ICSTR Dubai – International Conference on Science & Technology Research, 11-12 December 2019
- ICSTR Sydney – International Conference on Science & Technology Research, 12-13 December 2019
- 3rd ICSTR Bali – International Conference on Science & Technology Research, 21-22 December 2019
- 5th ICSTR Bangkok – International Conference on Science & Technology Research, 23-24 December 2019
- 3rd ICSTR Malaysia – International Conference on Science & Technology Research, 29-30 December 2019
- 6th ICSTR Dubai – International Conference on Science & Technology Research, 19-20 February 2020
- ICSTR Melbourne – International Conference on Science & Technology Research, 05-06 March 2020
- 5th ICSTR Singapore – International Conference on Science & Technology Research, 27-28 March 2020
- ICSTR Tokyo – International Conference on Science & Technology Research, 03-04 April 2020
- 3rd ICSTR London – International Conference on Science & Technology Research, 16-17 April 2020
- ICSTR Berlin – International Conference on Science & Technology Research, 14-15 May 2020



- 4th ICSTR Kuala Lumpur – International Conference on Science & Technology Research, 14-15 May 2020
- ICSTR Seoul – International Conference on Science & Technology Research, 22-23 May 2020
- 3rd ICSTR Prague – International Conference on Science & Technology Research, 04-05 June 2020
- 6th ICSTR Singapore – International Conference on Science & Technology Research, 11-12 June 2020
- ICSTR Paris – International Conference on Science & Technology Research, 10-11 June 2020
- 3rd ICSTR Budapest – International Conference on Science & Technology Research, 03-04 July 2020
- 6th ICSTR Bangkok – International Conference on Science & Technology Research, 16-17 July 2020
- 4th ICSTR Bali – International Conference on Science & Technology Research, 23-24 July 2020
- 3rd ICSTR Barcelona – International Conference on Science & Technology Research, 03-04 September 2020

