



**GLOBAL CONGRESS ON SUSTAINABILITY
FOR GROWTH & DEVELOPMENT 2020
PROGRAM BOOK
18 July 2020**



Website: <https://myera1.com/gcsgd-2020/>

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GCSGD 2020

In line with the Sustainable Development Goals (SDGs), to protect and promote sustainable growth and development of people and planet, this global congress initiates to identify the key positive and negative interactions on the SDGs which could serve as the basis for a science-policy initiative on achieving them. As we forge towards digital technology, we face challenges on the decline of biodiversity, energy, food and water security, climate change, economic and agricultural sustainability, human health, and well-being which has been recognized as the greatest threat faced by the human race and the planet. Academic Institutions, industries, and research organizations have major responsibilities to address these issues and come together in researching solutions to bequeath a sustainable world to our future generations and to create awareness among the younger generation.

Global Congress on Sustainability for Growth & Development (GCSGD) 2020 aims to:

- Bring together academicians and world experts to present and share their expertise, knowledge and research findings towards sustainability and growth.
- Stimulate and strengthen interdisciplinary research links among researchers and stakeholders worldwide to take the bold and transformative steps to shift the world on to a sustainable and resilient path.

All accepted papers will be submitted to the *Scopus indexed journal to consider for publication after peer review.



Message from Advisor



Professor Dr. Wong Ling Shing,
INTI International University, Malaysia

Welcome to Global Congress on Sustainability for Growth and Development (GCSGD) 2020. I am glad that we can come together to share our knowledge and the latest research information, in this challenging time.

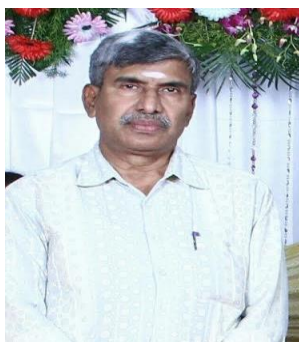
We started planning for this Global Congress in 2019. We determined to make this event a successfully one. However, due to the Covid-19 pandemic, we must embrace change- from original plan to meet each other face-to-face in Nilai University, Malaysia, now we meet each other virtually online. The change involves many challenges, with steep learning and critical decision-making process for all the committee members. The change is also a blessing, which we successfully reduce the barrier of time and space. That is the reason we have more than 120 participants around the world joining our Global Congress today.

Two Scopus indexed journals are willing to collaborate with us, to extend our publication opportunity beyond book of abstract or proceedings. To all participants, let us produce our scientific manuscripts with the highest quality that meets the requirement of the journals. That will be helpful to ensure smooth publication process later, after our Global Congress.

I wish to take this opportunity to express my gratitude to Einstein Research Academy, Nilai University, Malaysia, Galgotias University, India, and Fatima College, India for organizing GCSGD 2020. To all my committee members, thank you for your hard work, and congratulation for the job well done! I hope with the success that we have achieved; we will continue to organize GCSGD again in 2021.



Message from Convenor



Professor Dr. Senthilkumar Balasubramanian

MSc, MA, PhD

Professor, Thiruvalluvar University, India

On behalf of the organizing committee of the Virtual Global Congress on Sustainability for Growth and Development (GCSGD) 2020, I take immense pleasure in welcoming all delegates to this Global Congress.

The recent advancement and proliferation of innovative and sophisticated technologies in all disciplines have opened up multitude of oppotunities to solve the challenges on sustaining lives on people and planet. This Congress has brought together the knowledge and expertise of great minds from across the globe to share and promote their ideas.

Our sincere thanks to the main organizers Einstein Research Academy, Nilai University, Galgottias University, Fatima College and all the partnering organizations, eminent speakers, reviewers and participating Institutes of Higher Learning, research academies, industry partners, academicians, research scholars and graduate students for their virtual presence and enthusiastic participation in coming together for making this to interact with the pioneers.

I express my heartfelt gratitude to the organizing committee members for their dedication and hard work without whose meticulous effort and support this GCSGD 2020 would not have been organized in a befitting manner.

I wish that GCSGD 2020 will be of great success.



Message from Chairperson 01



Associate Professor Dr. Alice Escalante De Cruz,
Nilai University, Malaysia

I am happy to welcome all delegates to the Virtual Congress on Sustainability for Growth and Development 2020. The Congress is multidisciplinary, and it will provide a wonderful platform for several experts and researchers for a productive mutual exchange of not only knowledge but also sharing their experiences among delegates having different level of expertise. I hope the series of meetings will be of professional and personal benefit to all of us as we proceed with our work towards a future of innovative technologies and scientific changes that are sustainable and capable of providing food security for all. Once again warm welcome and best wishes to all of you.



Message from Chairperson 02



Assistant Professor Dr. Sinouvassane Djearamane,
Universiti Tunku Abdul Rahman, Malaysia

On behalf of the organizing committee, it is our prodigious honour to invite and welcome everyone to the virtual “Global Congress on Sustainability for Growth and Development (GCSGD) 2020”. This event is jointly organised by Einstein Research Academy, Galgotias University, Fatima College (Autonomous) and Nilai University.

This event aims to bring together academicians and world experts to present and share their expertise, knowledge and research findings towards sustainability and growth, and also to motivate and strengthen interdisciplinary research links among researchers and stakeholders worldwide to take the bold and transformative steps to shift the world on to a sustainable and resilient path.

GCSGD2020 hosts 4 plenary lectures and 8 invited talks from the experts in a specific area to share their recent work, and nearly 120 oral and poster presentations by the researchers from more than 10 countries.

As the chairperson of the organising committee, I would like to thank the organizers for their valuable support, reviewers for evaluating the conference papers, distinguished speakers for sharing their treasured knowledge, and all the presenters in sharing their scientific novel as well as innovative findings. Further, I am indebted to all the members of the organizing committee, scientific session chairs and moderators for their obligation and meticulousness to make this event memorable and successful.



Organizing Committee

Advisor	Prof. Dr. Wong Ling Shing, INTI International University, Malaysia
Convenors	Prof. Dr. K Maran, Sri Sairam Engineering College, India Prof. Dr. Senthilkumar Balasubramanian, Thiruvalluvar University, India Assoc. Prof. Dr. Vijanth Sagayan A/L Asirvadam, Universiti Teknologi PETRONAS, Malaysia Assoc. Prof. Dr. Alice Escalante De Cruz, Nilai University, Malaysia
Organizing Chairs	Asst. Prof. Dr. Sinouvassane Djearamane, Universiti Tunku Abdul Rahman, Malaysia
Organizing Secretaries	Assoc. Prof. Dr. Vasantha Esther Rani, Fatima College (Autonomous), India Asst. Prof. Dr. Anto Cordelia T.A.D., Universiti Tunku Abdul Rahman, Malaysia Dr. Ng Shee Ping, Nilai University, Malaysia
Scientific Committee	International & National Fellows of Einstein Research Academy (ERA) & Prof. Dr. Sheila, Sri Sairam Engineering College, India Prof. Dr. S Usha, Rajarajeswari Engineering College, India Assoc. Prof. Dr. Naga Swetha Pasupuleti, Galgotias University, India Assoc. Prof. Dr. Mohd Izham Haji Mohd Zain, KPJ Healthcare University College, Malaysia Assoc. Prof. Dr. Deepak T.J., Manipal International University, Malaysia Assoc. Prof. Dr. Duraimutharasan, St. John the Baptist University, Malawi Asst. Prof. Dr. N. Malathi, Fatima College (Autonomous), India Asst. Prof. Dr. Annaletchumy Loganathan, Universiti Tunku Abdul Rahman, Malaysia Asst. Prof. Dr. R.T Narendhirakannan, Kongunadu Arts and Science College (Autonomous), India Dr. Rahini, Nilai University, Malaysia Dr. S. Raju, Fatima College (Autonomous), India Dr. D. Jeya Mala, Fatima College (Autonomous), India Mr. Kannan Ponkoodalingam, INTI International University, Malaysia Mr. Kshtrashal Singh, AIMST University, Malaysia Mr. Mosharrof Hosen, Universiti Tunku Abdul Rahman, Malaysia Ms. Harshyini Maheswaran, Universiti Tunku Abdul Rahman, Malaysia



Organizing Committee

Treasurer

Mr. Vinod Kumar Ramalingam, INTI International University, Malaysia

Publicity & IT Support

Assist. Prof. Dr. Ilayaraja Alagia Thiruveenkadam, Universiti Tunku Abdul Rahman, Malaysia

Dr. Patricia Jayshree, Nilai University, Malaysia

Mr. Pradeep Balakrishnan, KPJ Healthcare University College, Malaysia

Mr. Nirbhay Mathur, Universiti Teknologi PETRONAS, Malaysia

Mr. Ghulam E Mustafa Abro, Universiti Teknologi PETRONAS, Malaysia

Mr. Sankara Kumaran Pandian, AIMST University, Malaysia

Mr. A.N. Sundaresan, AIMST University, Malaysia

Mr. Senthil Vadivel, King Saud bin Abdul Aziz University for Health Sciences, Kingdom of Saudi Arabia

Mr. Ganesh Kumar Maheshwari

Universiti Teknologi Petronas, Malaysia

Mr. Selvakumar Thiruveenkadam, Universiti Putra Malaysia, Malaysia





EVENT SCHEDULE WITH ZOOM LINKS

TIME	EVENT		LINK FOR SESSIONS
09:55 AM - 10:00 AM	Opening Ceremony		For all Participants/Authors/Attendees https://us02web.zoom.us/j/84064123459 Meeting ID: 840 6412 3459
10:00 AM - 10:05 AM	Welcome Address		
10:05 AM - 10:15 AM	Inaugural Address		
10:15 AM - 10:30 AM	Video Presentation		
10:30 AM- 10:45 AM	Keynote 1		
10:45 AM- 11:15 AM	Keynote 2		
BREAK (11:15 AM TO 11:30 AM)			
11:30 AM - 01:20 PM	Track-01: Health Sciences session 01	M.ID: 845 9142 0085	https://us02web.zoom.us/j/84591420085
	Track-02: Health Sciences session 02	M.ID: 823 4727 3195	https://us02web.zoom.us/j/82347273195
	Track-03: Life Sciences 01	M.ID: 858 7274 2830	https://us02web.zoom.us/j/85872742830
	Track-04: Engineering-Session 01	M.ID: 823 1751 9364	https://us02web.zoom.us/j/82317519364
	Track-05: Engineering-Session 02	M.ID: 841 9680 5471	https://us02web.zoom.us/j/84196805471
LUNCH BREAK (1:20 PM - 2:00 PM)			
2:00 PM - 2:15 PM	Keynote 3		For all Participants/Authors/Attendees https://us02web.zoom.us/j/84064123459 Meeting ID: 840 6412 3459
2:15 PM - 2:45 PM	Keynote 4		
2:50 PM - 6:10 PM	Track-01: Health Sciences session 03	M.ID: 845 9142 0085	https://us02web.zoom.us/j/84591420085
	Track-02: Health Sciences session 04	M.ID: 823 4727 3195	https://us02web.zoom.us/j/82347273195
	Track-03: Life Sciences 02	M.ID: 858 7274 2830	https://us02web.zoom.us/j/85872742830
	Track-04: Engineering-Session 03	M.ID: 823 1751 9364	https://us02web.zoom.us/j/82317519364
	Track-05: Information Technology & Computer Science 01	M.ID: 829 6536 0618	https://us02web.zoom.us/j/82695376639
	Track-06: Business, Management & Humanities 01	M.ID: 826 9537 6639	https://us02web.zoom.us/j/82965360618
Closing Ceremony from (6:10 PM - 6:30 PM) For all Participants/Authors/Attendees https://us02web.zoom.us/j/84064123459 (Meeting ID: 840 6412 3459)			

Note: All timings are as per Malaysian standard time(GMT+8:00)





Professor Dr. Nor Hisham Hamid

Deputy Vice-Chancellor Student Affairs & Alumni,
Universiti Teknologi PETRONAS, Malaysia

Nor Hisham Hamid is the Deputy Vice Chancellor for Student Affairs and Alumni at Universiti Teknologi PETRONAS Malaysia. He first joined UTP in 1999 as a lecturer in Electrical and Electronic Engineering Department and was later promoted to Associate Professor before assuming his current position in April 2016. The Deputy Vice Chancellor for Student Affairs and Alumni has the overall responsibilities for providing leadership and direction on the formulation, development, implementation and monitoring of student experience and student development strategic initiatives, programmes, and activities. He received his BSc degree in Electrical Electronics Engineering from University of Rochester, USA and MSc degree in Manufacturing System Engineering from University of Warwick, UK. He earned his PhD in Electronics Engineering from University of Edinburgh, Scotland. His research interests are in nano-devices modeling, fault-tolerant architectures, microfluidic lab-on-chip, reliability and testing of sensors, MEMS and microfluidics systems.

Title: Towards Multiplex Molecular Diagnosis

Abstract: A Microfluidic Lab-on-a-Chip (LOC) device also known as a micro-total-analytical system (microTAS), is a device that assimilates miniaturized laboratory functions (such as extraction, amplification and analysis of components of a mixture) on a single chip using extremely small fluid volumes on the order of microliters to picoliters. From a technology classification perspective, microTAS can be observed as a subgroup of microelectromechanical systems (MEMS) and combine miniaturized or novel sensing systems, fluid flow control ideas from microfluidics, and the suite of fabrication techniques.





Assistant Professor Dr. Poh Foong Lee
University Tunku Abdul Rahman, Malaysia

Dr Poh Foong Lee was graduated B.Sc from University Technology Malaysia in the physics. M.Sc and Ph.D in plasma physics and biophysics from the Department of Physics, University of Malaya. She serves as assistant professor to University Tunku Abdul Rahman, in Mechanical Department. Her current research interest is in non-invasive cancer treatment, biodevices, biofeedback systems and neurophysiological study.

Title: The effects of short duration deep breathing on the EEG power with topography

Abstract: The study aims to study the effects of short duration deep breathing on the EEG power with topography based on parallel group randomized controlled trial design which was lacking in prior reports. 50 participants were split into 4 groups: control (CONT), deep breathing (DB) for 5 (DB5), 7 (DB7), and 9 (DB9) minutes. EEG recordings were obtained during baseline, deep breathing session, after deep breathing, and a follow-up session after 7 days of consecutive practice. Frontal theta power of DB5 and DB9 was significantly larger than that of CONT after the deep breathing session ($p = 0.027$ and $p = 0.006$, respectively) and the profound finding showed that the theta topography obtained a central-focused distribution for DB7 and DB9. The result obtained was consistent with previous literature, albeit for certain deep breathing durations only, indicating a possible linkage between the deep breathing duration and the neurophysiology of the brain.



Keynote Speaker 03



Associate Professor Dr. Alex Lechner
University of Lincoln
United Kingdom.

Dr Alex Lechner is a landscape ecologist with experience applying socio-ecological approaches along with spatial modelling (i.e. GIS) to conservation and natural resource management. His current research focuses on the social and environmental dimensions of urban planning in Asian cities, tropical forest conservation in Malaysia and Southeast Asia and infrastructure impacts on the environment, in particularly China's Belt and Road Initiative and mining. He has 99 academic publications including 7 book chapters and 68 international journal papers.

Title: Building sustainability into the Belt and Road Initiative in Southeast Asia

Abstract: The trillion-dollar Belt and road initiative (BRI) proposed by China is the largest foreign investment project in China's history and largest infrastructure initiative this century. BRI is a trade and development strategy which will connect Asia, Africa, and Europe through a network of roads, bridges, railways, ports, and other infrastructure. The Chinese government describes the BRI as "a bid to enhance regional connectivity and embrace a brighter future", however, recently there has been increasing concerns over its potential negative environment impacts such as on biodiversity and increasing global emissions contributing to climate change. In this presentation I outline some of the key environmental issues associated with the BRI in Southeast Asia. I first review BRI projects and investments in Southeast Asia. Then summarise the potential negative impacts of the BRI on the environment identified using spatial analysis of BRI road, rail and marine routes. BRI's success in bringing about sustainable growth and opportunities for Southeast Asia depends not only on the Chinese government and financiers, but the agencies and governments where the BRI investments take place. Applying best environmental practices is critical to ensuring that investments are sustainable and ensuring that bad environmental practices are not locked in for decades to come.



Keynote Speaker 04



Albert Johan de Munck
Managing Director,
De Munck Consulting Sdn Bhd, Malaysia

Title: A health check of the Construction Industry in Malaysia

Abstract: The presentation will focus on the challenges in the Construction Industry in Malaysia, the impact of COVID-19 and Movement Control orders on this same industry, and the new challenges and opportunities in the Post-MCO era.



Invited Speaker 01



Dr. Geeta Mehra M.Sc., Ph.D.

Asst. Professor and Head,
Department of Food Science,
Mehr Chand Mahajan DAV College for Women
(Affiliated to Panjab University),
Chandigarh, India

FOOD AS SUSTAINABLE PREVENTIVE HEALTH CARE THERAPY

During current COVID -19 pandemic, when the entire world is racing to search for a cure or therapy or prophylactic measure against the disease, can food on our plate become our succour? Isn't it amazing that today, the only therapy to fall back upon is nutrient supplements! Obviously, the famous wisdom of Greek physician Hippocrates, "Let food be thy medicine and medicine be thy food," has stood the test of time.

Balanced diet containing adequate amount of major and minor nutrients, as per age group and occupation, is imperative for good health. Inclusion of variety of fruits, vegetables, grains, legumes, nuts and milk products, meat and meat products, etc., are essential for maintaining disease free well-being. Along with that condiments, spices, high fibre sources, millets or coarse grains, pseudo cereals, pro and prebiotics and many of our traditional food items are some of the super foods to reckon with. Various nutraceutical sources, in the form of immunity boosting homemade recipes are being promoted by the government agencies as an essential part of preventive health care.

Some food items can act as foe as well. Consumption of 3 whites – sugar, salt, white flour, along with fats, especially, trans fats, High Fructose Corn Syrup, processed food overloaded with additives – is also increasing the disease burden of the world. Ready to eat foods with the above ingredients are also the cause of hidden hunger in the society. Prevalent obesity in many parts of the world indicates a dire need for moderation in calorie intake

It is time to think local and inculcate traditional wisdom in our food preparation at home, small scale and even at industrial level. Novel food product development should be based on locally grown and seasonally available food resources. If minimally processed to retain the freshness, sensory and nutritional value, these food sources can act as the powerhouse for human nutrition. Smart packaging can further add value to the food products. Good hygienic practices, good manufacturing practices, for food purity, quality and safety will enhance the consumer confidence. Novel food processing technologies can facilitate the objective of food safety and security in amalgamation with nutritional security. Current times also demand that emphasis be laid on best practices for food storage, transport and retail. After all, prevention is better than cure!



Invited Speaker 02



Assoc. Prof. Dr. A. Usha Raja Nanthini, M.Sc., M.Phil., PGDIPR., Ph.D.
Associate Professor and Head i/c,
Department of Biotechnology,
Mother Teresa Women's University, Kodaikanal,
India

AWAITING TREASURE TROOVE AGAINST VIRUSES FROM THE NEUROLOGICAL NETWORK OF NATURE

The day on understanding of mycelium as the neurological network of nature is soon to come. Myco (Fungi) is one of the most important components of earth's bioregulation system. Mankind in near future will realize fungus as a huge biological treasure house to both human and nature with enormous hidden potentials. A very few of its inherent aspects have been tapped so far and it remains one of the least understood and utilized. Fungi are biotechnologically and industrially valuable group of organisms. Fungi have the most powerful natural medicines of the planet. Viruses cause serious outbreaks in all continents leading to difficult symptoms and mortality, and enormous economic burden for society. The attempts to discover powerful prophylactic agents against the virus meet the insurmountable obstacle that is unique biological properties of the virus, which is its great genetic and antigenic changeability. As there is a shortage of antiviral drugs in the market against many viruses, exploration of new antiviral components from mushroom could add to the existing armament of antivirals. The ease of mushroom cultivation could provide an ever-present supply of antiviral compounds once large-scale production has been formulated for these compounds. Numerous previous studies have found many of them exhibiting potential antiviral efficacy agents. It is also important to continue investigating fungal species diversity, as only a small number of the known fungi have been investigated for antiviral activity. Whereas biodiversity hot-spots and little-explored habitats are particularly important for finding unrecognized fungal species, cryptic species represent considerable genetic reserve also in long studied ecosystems. If this treasure trove is rightly identified and explored it can bring out sustainable benefit to the World even against viruses.



Invited Speaker 03



Prof. Dr. Lakshmana Kumar Ramasamy, MCA, Ph.D
Professor,
Hindustan College of Engineering, Coimbatore, India

SECURITY SERVICES USING BLOCKCHAIN TECHNOLOGY

Recently, blockchain technology has attracted tremendous interest from both academia and industry. The technology currently spans several applications that are popular and driving networking research. Such applications include healthcare, Internet of Things (IoT), and cloud storage. Generally, blockchain technology has proven its potential in any application that currently requires a centralized ledger. Among the blockchains' promising applications are network monitoring and security services, including authentication, confidentiality, privacy, integrity, and provenance. Currently, these services are provided by trusted third-party brokers or using inefficient distributed approaches. As a result, security is a significant challenge for current applications. On the other hand, the blockchain technology can provide security guarantees that resolve many traditional difficulties in addition to providing a fully distributed, provably secure, and consensus solution.



Invited Speaker 04



Prof. Ts. Dr. T. Joseph Sahaya Anand, M.Sc., M. PHIL, PhD (Hong Kong)

Professor, Faculty of Manufacturing Engineering,
Universiti Teknikal Malaysia Melaka (UTeM), 76100
Durian Tunggal, Melaka, Malaysia

MECHANICAL STUDIES OF INTERMETALLIC NICKEL ALUMINIDE (Ni 4 Al) FOR AUTOMOTIVE TYRES

Intermetallic Nickel Aluminides (Ni 4 Al) was synthesized and characterized to determine the suitability of this material in the automotive industry. The purpose is to produce vehicles which are lighter, more fuel efficient and cause less pollution. One key technical design strategy for improving vehicles efficiency is the light weighting and their tyre Hub. Attractive properties of Ni 4 Al including low density ($\sim 6\text{g/cm}^3$) resulting lightweight, high oxidation and corrosion resistance, combined with their ability to retain strength and stiffness at elevated temperatures lead to its selection as a potential candidate material. The prime focus will be on to obtain the mechanical properties such as hardness which was tested using Vickers Micro hardness Tester. Microstructural properties of these alloys were examined using optical microscopy and Scanning Electron Microscopy (SEM). It confirms grain boundaries with a large network in ordered L 12 Ni 4 Al phase visible and it was known as dendrites arm. SEM equipped with EDX used to do compositional analysis. The EDX analysis shows the ratio of Ni to Al is close to 4:1 respectively. Heat treatment (annealing) and Tafel extrapolation tests were used out for thermal and corrosion properties of the intermetallic nickel aluminides respectively. There is an increase of 26.36% for the annealed Ni 4 Al sample results that associate with dendrites structure which decayed very slightly with the rise of annealing temperature.



Invited Speaker 05



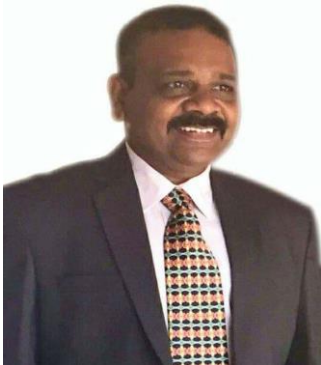
Dr Trilok Mathur, Ph.D

Assistant Professor,
Birla Institute of Technology & Science, BITS Pilani,
India

FRACTIONAL CALCULUS AND ITS RECENT APPLICATIONS IN SUSTAINABLE DEVELOPMENT

Fractional calculus was restricted to the development of the theoretical part for several decades, and the application aspect was untouched for a long time. But the scenario was changed and humongous research activities were carried over in the last few decades, and applications were extended to many diversified areas from physics to control systems, and finance to economics. This talk is to discuss some recent applications of fractional calculus in SDGs.





Prof. Dr. S RAJU, M.B.A., Ph.D.

Director of MBA Program, Fatima College
(autonomous) Madurai, Tamilnadu, India

SUSTAINABILITY FOR GROWTH AND DEVELOPMENT

Sustainable development is a concept that appeared for the first time in 1987 with the publication of the Brundtland Report warning of the negative environment consequences of economic growth and globalization, which tried to find possible solutions to the problem caused by industrialization and population growth.

Sustainability is development that satisfies the need of the present without compromising the capacity of the future generations, guaranteeing the balance between economic growth, care for the environment and social well-being.

The conventional method of sustainable growth and development model starts from the economic sustainable development and ends with the human development but recent researches emphasis on three important factors to be implemented strategically for the effective practice will show the optimistic approach of sustainability in the nations.

1. De- centralize the sustainable development goals (established 17 goals)
2. Developing new strategies to meet out the rapid urbanization or industrialization
3. Developing the human capital by which balancing the growth and development of the economy and the environment.

Finally, sustainability can be achieved only with the help of understanding capitalized people who handles the natural resources effectively and maintain the social system fairly in which the people and future generations depends.



Invited Speaker 07



Prof. Dr. Balamurugan Balusamy, M.E., Ph.D.
Professor/Chief Research Coordinator
Galgotias University, India

ARTIFICIAL INTELLIGENCE (AI) IN BATTLING THE CORONAVIRUS

As the world grapples with COVID-19, every ounce of technological innovation and ingenuity harnessed to fight this pandemic brings us one step closer to overcoming it. Artificial Intelligence (AI) and Machine Learning are playing a key role in better understanding and addressing the COVID-19 crisis. Organizations have been quick to apply their AI and Machine Learning know-how in the fight to curb this pandemic. These technologies are being deployed in areas from research to healthcare and even agriculture.



Invited Speaker 08



Dr. G. Deepthi MPT, PhD
Lecturer, School of Physiotherapy
AIMST University, Malaysia

COVID 19 & PREGNANCY – A PHYSIOTHERAPIST PERSPECTIVE

The objective of this session would be on vulnerability of pregnant women for covid-19, simple essential exercises and education with precautions through virtual prenatal classes, effective management of stress during and after delivery to establish serenity in mother, ensuring safety of both mother and new born during 4th trimester and ways to promote effective breast feeding when the mother is infected.



List of Reviewers

Name of Reviewers	Affiliation	Country
Prof. Dr. C K Singh	Chhatrapati Shivaji Maharaj University	India
Prof. Ts. Dr. T. Joseph Sahaya Anand	Universiti Teknikal Malaysia Melaka	Malaysia
Prof. Dr. K. Saminathan	Geomatika University College	Malaysia
Prof. Dr. Prathap Suganthirababu	Saveetha Institute of Medical and Technical Sciences (Deemed to be University), India	India
Prof. Dr. Manoj Abraham	KG College of Physiotherapy	India
Prof. Dr. M. Sylvia Subapriya	Avinashilingam Institute for Home Science and Higher Education for Women	India
Prof. Dr. Lakshmana Kumar Ramasamy	Hindusthan College of Engineering and Technology	India
Assoc. Prof. Dr Mohd Izham B Mohd Zain	KPJ Healthcare University College Nilai	Malaysia
Assoc. Prof. Dr. Alice Escalante De Cruz	Nilai University	Malaysia
Assoc. Prof. Dr. Anuchita Moongngarm	Maharakham University	Thailand
Assoc. Prof. Dr. Manoj Kumar Dash	Khallikote University	India
Assoc. Prof. Dr. K. Govindaraju Kasivelu	Sathyabama Institute of Science and Technology (Deemed to be University), India	India
Assoc. Prof. Dr. Vetrivelan Subramaniyan	MAHSA University	Malaysia
Assoc. Prof. Dr. Vasantha Esther Rani	Fatima College (Autonomous)	India
Assoc. Prof. Dr. Muhammad Izzat Nor Ma'arof	INTI International University	Malaysia
Assoc. Prof. Dr. B. Prakash	Vels Institute Of Science, Technology And Advanced Studies (VISTAS), Deemed University	India
Assoc. Prof. Dr. A. Usha Raja Nanthini	Mother Teresa Women's University	India
Assoc. Prof. Dr. Chee. Hui Yee	Universiti Putra Malaysia	Malaysia
Assoc. Prof. Dr. Syriac Nellikunnel Devasia	MAHSA University	Malaysia
Assoc. Prof. Dr. S. Geetha Subramaniam	INTI International University	Malaysia
Assoc. Prof. Dr. Mohamaad Rokibul Kabir	East Delta University	Bangladesh
Assoc. Prof. Dr. Mee Kin Chai	University Tenaga Nasional	Malaysia
Assoc. Prof. Dr. Malathy Batumalay	INTI International University	Malaysia
Assoc. Prof. Dr. Deepak T. J.	Manipal International University	Malaysia
Assoc. Prof. Dr. Duraimutharasan	St. John the Baptist University	Malawi
Assoc. Prof. Dr. Naga Swetha Pasupuleti	Galgotias University	India



Assoc. Prof. Dr. Cheng Wan Hee	INTI International University	Malaysia
Assoc. Prof. Dr. Ghim Hock Ong	INTI International University	Malaysia
Assoc. Prof. Dr P Dhinakar	J.N.N Institute of Engineering	India
Dr. D. Shanmuka Raj	Minano, Alava	Spain
Dr. Manoj Malik	Guru Jambheshwar University of Science & Technology	India
Dr. Priyanut Wutti Chupradit	Chiang Mai University	Thailand
Dr. Anto Cordelia Tanislaus Antony D.	Universiti Tunku Abdul Rahman	Malaysia
Dr. P. Sivakumar	MASHA University	Malaysia
Dr Jaspreet Singh Vij	Baba Farid University of Health Sciences	India
Dr. Ashok Kumar Janakiraman	UCSI University	Malaysia
Dr. P. Balamurugan	Sastra Deemed University	India
Dr. Anandh Vaiyapuri	College of Applied Medical Sciences	Kingdom of Saudi Arabia
Dr. Sukjeet Kaur Sandhu	INTI International University	Malaysia
Dr. Lavanya Prathap	Saveetha Dental College & Hospitals	India
Dr. G. Deepthi	Aimst University	Malaysia
Dr. Khaleel Husain	Universiti Teknologi Petronas	Malaysia
Dr. N.Malathi	Fathima College (Autonomous)	India
Dr. Nurharniza Abdul Rahman	INTI International University	Malaysia
Dr. D. Napoleon	Bharathiar University	India
Dr. Amitabh dwivedi	Jaipur Occupational Therapy College, Maharaj Vinayak Global University	India
Dr. Lakshmanan Sethuraman	National Institute of Mental Health & Neuro Sciences	India
Dr. Jaspreet Kaur	Guru Jambheshwar university of Science and Technology	India
Dr. Vikram Mohan	Bournemouth University	United Kingdom
Dr. Deivendran Kalirathinam	Hull university Teaching Hospital NHS Trust	United Kingdom
Dr. Supat Chupradit	Chiang Mai University	Thailand
Dr. Chog wei ying	SEGi University & Colleges	Malaysia
Dr. Ng Shee Ping	Nilai University	Malaysia
Dr. R. Rahini	Nilai University	Malaysia
Dr. Babak Naysary	INTI International University	Malaysia
Dr. Annaletchumy Loganathan	Universiti Tunku Abdul Rahman	Malaysia
Dr. Ankit Katrodia	North West University	South Africa
Dr. R.T. Narendhirakannan	Kongunadu Arts and Science College (Autonomous)	India



Dr. Chong Mee Yoke	INTI International University	Malaysia
Dr. Charles Gnanaraj	Universiti Kuala Lumpur	Malaysia
Kannan Ponkoodalingam	INTI International University	Malaysia
Vinodh Kumar Ramalingam	INTI International University	Malaysia
Ghulam E Mustafa Abro	Universiti Teknologi Petronas	Malaysia
Ganesh Kumar Maheshwari	Universiti Teknologi Petronas	Malaysia
Syed Aqeel Raza	Research Analyst, Global Data	United Kingdom
Mohammed Yaw Broni.	International Center for Education in Islamic Finance (INCEIF)	Malaysia
Kishan Gunesegeran	INTI International University	Malaysia
Vipin Kumar Oad	Universiti Teknologi Petronas	Malaysia
Md. Khorshed Alam	Universiti Teknologi Petronas	Malaysia
Rabeea Jaffari	Mehran University of Engineering and Technology, Jamshoro	Pakistan
Haris Siddique	Universiti Teknologi Petronas	Malaysia
Premylla Jeremiah	Universiti Teknologi Malaysia	Malaysia
Ambusam Subramaniam	INTI International University	Malaysia
Mosharrof Hosen	Universiti Tunku Abdul Rahman	Malaysia
N Sriganeshvarun	INTI International University	Malaysia
Pandian Sankara Kumaran	AIMST University	Malaysia
Soon Eu Hui	INTI International university	Malaysia
Ali Qasim	NFC Institute of Engineering and Technology, Multan	Pakistan
Zulqarnain	University of Engineering Technology Lahore	Pakistan



Technical Sessions

Track 01		Health Sciences Session 01	
Session Chair 01	Dr Manoj Malik, Guru Jambheshwar University of Science & Technology, India		
Session Chair 02	Assoc. Prof. Dr Jaspreet Singh Vij, Baba Farid University of Health Sciences, India		
Moderator	Yughdtheswari Muniandy, INTI International University, Malaysia		
Session Link:	https://us02web.zoom.us/j/84591420085		
Timings	11:30 AM to 1:20 PM		
Invited Talk:	Dr. Geeta Mehra MCM DAV College for Women (affiliated to Panjab University), India		
Time	11:30 AM to 11:45 AM		

Time	Paper ID	Title of paper with authors
11:50 AM -12:00 PM	HS001F	<i>The Effect of Aerobic Exercises on Primary Headache - A Literature Review</i> Author: Kiruthika Selvakumar
12:00 PM -12:10 PM	HS002F	<i>Chemical Investigation and Antiproliferative Studies of Isolated Polyisoprenylated Benzophenones from Stembark of Garcinia maingayi</i> Authors: Sangeetha Arullappan, Wong Fai Chu, Lim Chan Kiang, Vivien Jong Yi Mian and Sim Kooi Mow
12:10 PM -12:20 PM	HS005F	<i>Brain Computer Interface (BCI) on Attention: A Scoping Review</i> Authors: Anita Prem, K Mohanraj, A Rajan Samuel
12:20 PM – 12:30 PM	HS006F	<i>Challenges of Physiotherapist during Prosthesis Rehabilitation in Malaysia</i> Authors: Chong Li Chi, Vinodhkumar Ramalingam
12:40 PM – 12:50 PM	HS001AF	<i>Nutraceuticals and Functional Foods, a Strategy To Empower Women's Health</i> Author: Neevitha Arunprabhu
12:50 PM -01:00 PM	HS009F	<i>A Systematic Review on the Prevalence of Mentally Challenged Adolescents in India and the Efficacy of Dietary Supplements with Herbs on Cognitive Function</i> Authors: Manjula.J and Karthiga.K
<p>End of this Session Lunch Break (1:20 PM to 02:00 PM)</p>		



Track 02 Health Sciences Session 02	
Session Chair 01	Assoc. Prof. Dr. Cheng Wan Hee, INTI International University, Malaysia
Session Chair 02	Assoc. Prof. Dr.N.K Udhayaprakash, Vels University, India
Moderator	A.N. Sundaresan, AIMST University, Malaysia
Session Link:	https://us02web.zoom.us/j/82347273195
Timings	11:30 AM to 1:20 PM
Invited Talk:	Dr. G. Deepthi, AIMST University, Malaysia
Time	11:30 AM to 11:45 AM

Time	Paper ID	Title of paper with authors
11:50 AM -12:00 PM	HS021F	<i>Efficacy of flaxseed crackers in ameliorating clinical and biochemical hyperandrogenism in young adult South Indian women diagnosed with PCOS</i> Authors: Jeyamani Divya Christodoss, Priya D John MD and Vasantha Esther Rani
12:00 PM -12:10 PM	HS022F	<i>Effects of Individualized Training and Respiratory Muscle Training in Improving Swimming Performance among Collegiate Swimmers – An Experimental Study</i> Authors: Sivaguru Muthusamy, Ambusam Subramaniam, K. Balasubramanian
12:10 PM -12:20 PM	HS023F	<i>The Combinatorial Effects of Azadirachta Indica with Amikacin and Tetracycline Against Clinically Important Bacteria</i> Authors: K. Tze Sin, L.A. Sivasamugham, K. Thrumaran, G. Subramaniam
12:20 PM – 12:30 PM	HS024F	<i>A Narrative Review on Mindfulness Practices in optimizing Sports Performance among Athletes</i> Authors: Vinodh Kumar Ramalingam, Cheong Soon Keng, Poh Foong Lee
12:30 PM – 12:40 PM	HS025F	<i>Influence of Gender on Pain, Quality of Life, And Physical Activity in Patients with Knee Osteoarthritis</i> Authors: Tan Xue Min, Vinosh Kumar Purushothaman, Yughdtheswari Muniandy
12:40 PM – 12:50 PM	HS026F	<i>Toxicity of Zinc Oxide Nanoparticles on Human Skin Dermal Cells</i> Authors: Harshyini Maheswarana, Ling Shing Wongb, Anto Cordelia Tanislaus Antony Dhanapalc, RT Narendhirakannand and Sinouvassane Djearamanea
12:50 PM -01:00 PM	HS027F	<i>Therapeutic Applications of Spirulina against Human Pathogenic Viruses</i> Authors: Sharolynne Xiao Tong Liang, Ling Shing Wong, Anto Cordelia Tanislaus Antony Dhanapal, Prakash Balu and Sinouvassane Djearamane
End of this Session Lunch Break (1:20 PM to 02:00 PM)		



Technical Sessions

Track 03		Life Sciences Session 01	
Session Chair 01	Dr. Ng Shee Ping, Nilai University, Malaysia		
Session Chair 02	Assoc. Prof. Dr. B. Prakash Vels Institute of Science, Technology and Advanced Studies, India		
Moderator	Ambusam Subramaniam INTI International University, Malaysia		
Session Link:	https://us02web.zoom.us/j/85872742830		
Timings	11:30 AM to 1:20 PM		
Invited Talk:	Assoc. Prof. Dr. A. Usha Raja Nanthini, Mother Teresa Women's University, India		
Time	11:30 AM to 11:45 AM		

Time	Paper ID	Title of paper with authors
11:50 AM -12:00 PM	AS001	<i>Sustainable Innovations to Improve, The Functional Properties of Sportswear</i> Authors: P. C. Jeminarani, N.Vasugiraaja
12:00 PM -12:10 PM	AS002	<i>Synthesizing and Evaluating the Performance of Enzyme for Bleaching of Cotton</i> Author: S. Karpagam Chinnamma
12:10 PM -12:20 PM	LS001F	<i>Feasibility of Uncovering Malaysian Fern Identities Using DNA Barcoding</i> Authors: Ang Li Hui, Diana Chin, and Geeta Selvarajah
12:20 PM – 12:30 PM	LS002F	<i>Sustainable development, Climate Change and Innovation</i> Author: John B. Parisutham
12:30 PM – 12:40 PM	LS003F	<i>Pre-treatment temperature and multi-response surface optimisation of ultrasound-assisted extraction of antioxidants from red dates</i> Authors: Chua Bee Lina, Chen Yen Leng, Haripriya Ravi kumar, Ameena Ali, Choo Choong Oon
12:40 PM – 12:50 PM	LS004F	<i>Formulation of Selected Soy Products for Women's Health.</i> Authors: Anitha. C. and Vasantha Esther Rani
12:50 PM -01:00 PM	LS005AF	<i>Formulation of Stirred Probiotic fruit yoghurt to boost immune health</i> Authors: Poornima Jeyasekaran, M. Deepa
End of this Session Lunch Break (1:20 PM to 02:00 PM)		



Technical Sessions

Track 04 Engineering Session 01	
Session Chair 01	Dr. C G Ravichandran, Vivekananda College of Technology for Women, India
Session Chair 02	Dr. P. Sivakumar, MAHSA University, Malaysia
Moderator	Mosharrof Hosen, Universiti Tunku Abdul Rahman, Malaysia
Session Link:	https://us02web.zoom.us/j/82317519364
Timings	11:30 AM to 1:20 PM
Invited Talk:	Prof. Ts. Dr. T. Joseph Sahaya Anand, Universiti Teknikal Melaka (UTeM), Malaysia
Time	11:30 AM to 11:45 AM

Time	Paper ID	Title of paper with authors
11:50 AM -12:00 PM	E002	<i>Assessment and Mitigation of Environmental Impact of Local Earthen Brick Kilns in Peshawar, Pakistan</i> Authors: Mujahid Ali, Shah Room, Inam Ullah, Fazle Wahid, Muhammad Imran Khan
12:00 PM -12:10 PM	E003	<i>A Simultaneous Integration of BIM and IBS in the Construction Sector</i> Authors: Syed Saad, Wesam Salah Alaloul, Nasir Shafiq, Syed Ammad, Vipin Kumar Oad, A. Mohsen Mohammed Alawag
12:10 PM -12:20 PM	E004	<i>Perceptions and Benefits Of Urban Lakes Under Different Environmental Conditions</i> Authors: Nasir Shafiq, Farah Amira Ahmad, Delene Weber, Morgan Schebella
12:20 PM – 12:30 PM	E005	<i>Study on Hybrid Fibre Reinforced Concrete</i> Authors: Syed Jakeer Hussain, P.L.K. Sowjanya, Apsa, Golla Mahitha
12:30 PM – 12:40 PM	E006	<i>Performance Estimation of a low concentration photovoltaic system using MATLAB/SIMULINK</i> Authors: Faisal Masood, Perumal Nallagownden, Irraivan Elamvazuthi, Javed Akhter
12:40 PM – 12:50 PM	E007	<i>Review on Magnetolectric Multiferroics for Photovoltaics applications</i> Authors: A. Joana Preethi and M. Ragam
12:50 PM -01:00 PM	E008	<i>Lossless solitary transmission of neuronal signals: A He's semi inverse approach</i> Author: Ancemma Joseph
End of this Session Lunch Break (1:20 PM to 02:00 PM)		



Track 05		Engineering Session 02	
Session Chair 01	Assoc. Prof. Dr. N. Duraimutharasan St. John Baptist University, Malawi		
Session Chair 02	Dr. Nurharniza Abdul Rahman INTI International University, Malaysia		
Moderator	Kshtrashal Singh, AIMST University, Malaysia		
Session Link:	https://us02web.zoom.us/j/84196805471		
Timings	11:30 AM to 1:20 PM		
Invited Talk:	Dr. Trilok Mathur Birla Institute of Technology and Science, Pilani, Rajasthan, India		
Time	11:30 AM to 11:45 AM		

Time	Paper ID	Title of paper with authors
11:50 AM -12:00 PM	E001F	<i>Personal Protective Equipment in Construction, accidents involved in construction Infrastructure Projects</i> Authors: Syed Ammad, Wesam Salah Alaloul, Syed Saad, Abdul Hannan Qureshi, Muhammad Altaf
12:00 PM -12:10 PM	E002F	<i>A High Gain Switched Z-Source Converter with Reduced Passive Components</i> Authors: Rahul Kumar, Ramani Kannan, Nursyarizal Bin Mohd Nor
12:10 PM -12:20 PM	E003F	<i>Mechanical Studies of Intermetallic Nickel Aluminide (Ni4Al) For Automotive Tyres</i> Authors: H.A.H. Hanim, T.J.S. Anand, I.S. Othman, Sivaraos, K.T. Lau, S.I.A Razak and R.T.R. Kumar
12:20 PM – 12:30 PM	E004F	<i>Resistive Random-access Memory (RRAM) based Unbalanced Ternary Inverter</i> Authors: Furqan Zahoor, Tun Zainal Azni Zulkifli, Usman Bature Isyaku, Farooq Ahmad Khanday, Aabid Amin Fida
12:30 PM – 12:40 PM	E005F	<i>Water Quality Investigation of old Repas Dam Bentong, Pahang</i> Authors: Kishan G, M. K. Rowshon, Hasfalina Che Man, A Wayayok, Deepak T.J , Lee Siaw Kiat
12:40 PM – 12:50 PM	E006F	<i>A Noded Carbon Emission Tool (NCET) to Measure Embodied Carbon (EC) in Compositional Cementitious Materials.</i> Authors: Syed Saad, Wesam Salah Alaloul, Syed Ammad, Abdul Hannan Qureshi, Aawag Mohsen Mohammed Alawag, Vipin Kumar Oad, Muhammad Altaf
12:50 PM -01:00 PM	E007F	<i>A DEA Model for Systematic Screening of Sustainable Suppliers with Uncertainty</i> Authors: Trilok Mathur, Shivi Agarwal and Srikanta Routroy
End of this Session Lunch Break (1:20 PM to 02:00 PM)		



Technical Sessions

Track 01 Health Sciences Session 03	
Session Chair 01	Prof. Dr. Prathap Suganthirababu, Saveetha Institute of Medical and Technical Sciences (Deemed to be University), India.
Session Chair 02	Dr. Jaspreet Kaur, Guru Jambheshwar university of Science and Technology, India
Moderator	Dr. Jim Brown Clement INTI International University, Malaysia
Session Link:	https://us02web.zoom.us/j/84591420085
Timings	02:50 PM to 06:10 PM

Time	Paper ID	Title of paper with authors
02:50 PM -03:00 PM	HS010F	<i>Importance of Nutrition Assessment in Critically Ill Patients</i> Authors: V. Suganya, Vasantha Esther Rani
03:00 PM -03:10 PM	HS011F	<i>Does Playing Location-Based Augmented Reality Game Increases the Level Of Physical Activity?</i> Authors: Low Ann Gee, Ambusam Subramaniam, Sivaguru Muthusamy, Rajkumar Krishnan Vasanthi
03:10 PM -03:20 PM	HS012F	<i>Restoring the Spirit (Yuan Shen) by Avoiding Stinky Food In Order To Prevent and Treat Covid 19 and other Contagious Disease, A Taoism and TCM Approach.</i> Authors: Cheok Wee Teck
03:20 PM – 03:30 PM	HS013F	<i>Discovering the Truth of Covid 19 and Other Contagious Diseases by Application of The Theory Of Changes and The Theory of Yin Yang.</i> Authors: Cheok Wee Teck, Yean Chin Cheok
03:30 PM – 03:40 PM	HS014F	<i>Changes in eating behaviours following bariatric surgery: A prospective study</i> Authors: Kavitha Subramaniam, Wah-Yun Low, Peng-Choong Lau, Kin-Fah Chin, Karuthan Chinna, Nik Ritza Kosai, Mustafa Taher, Reynu Rajan
03:40 PM – 03:50 PM	HS015F	<i>Psychosocial and Occupational Impact Assessment due to Internet Addiction: A Scope of Review.</i> Authors: Senthil Vadivel Vadivu, Priyanut Wutti Chupradit and Supat Chupradit
03:50 PM -04:00 PM	HS016F	<i>Promoting Stress Management Program for Life Style of University Students: A Scope of Review</i> Authors: Natthanit Joompathong, Senthil Vadivel Vadivu and Supat Chupradit
04:10 PM -04:20 PM Break		
04:20 PM -04:30 PM	HS017F	<i>Education in Physiotherapy Department in University of Zawia in Libya</i> Authors: Mahmoud M. Dboba, W. Astiata, Yahya. Alkamali, A. al-Sheibani
04:30 PM -04:40 PM	HS018F	<i>Improving Resilience and Mental Health Occupational Therapy Involvement in School for Early Teenagers: A Scope of Review</i>



		Authors: Chanakarn Kumkun, Senthil Vadivel Vadivu and Supat Chupradit
04:40 PM -04:50 PM	HS019F	<i>Do music increases the motivation to perform exercises among university students? - A cross-sectional study.</i> Authors: Lai Yi Ying, Ambusam Subramaniam
04:50 PM -05:00 PM	HS020F	<i>Antibacterial Activity of Essential Oil, Aqueous and Ethanolic Extracts of Trigonella-foenum graecum against Skin Pathogens</i> Authors: Geetha Subramaniam, Rayshen Renganaden Pootee Coolee, Cheah Cheng Han, and Lalita Ambigai Sivasamugham
05:00 PM – 05:10 PM	HS016	<i>Effect of Zinc Oxide Nanoparticles on Saccharomyces Cerevisiae</i> Authors: Tan Eng Pei, Sinouvassane Djearamane
05:10 PM -05:20 PM	HS017	<i>Antibacterial Property of Zinc Oxide Nanoparticles on Staphylococcus Epidermidis</i> Authors: Melvina Ann Robert, Sinouvassane Djearamane
05:20 PM -05:30 PM	HS029F	<i>Evaluation of Phytochemical Constituents, Antioxidant Capacity, Alpha - Amylase Inhibitory Activity with Special Reference to the Hypoglycaemic Activity of Asparagus racemosus on Alloxan Induced Diabetic Rats</i> Authors: A.A.I.S.Menike, V.Paheerathan, R.Piratheep kumar and R.Sivakaneshan
05:40 PM – 05:50 PM	HS010	<i>Prevalence, Knowledge of anemia, Attitude, and Behaviour Preventing Anemia Among Female Students Pursuing Tertiary Education</i> Authors: Liu Jie, T, Abdul Rahman, A, Subramaniam, K and Loganathan, A*
End of this Session Closing Ceremony at 6:20 PM		



Technical Sessions

Track 02		Health Sciences Session 04	
Session Chair 01	Assoc. Prof. Dr. M. Balaganapathy, Charotar University of Science and Technology. India		
Session Chair 02	Dr. Ilayaraja Alagia Thiruveenkadam, Universiti Tunku Abdul Rahman, Malaysia		
Moderator	Pradeep Balakrishnan, KPJ Healthcare University College, Malaysia		
Session Link:	https://us02web.zoom.us/j/82347273195		
Timings	02:50 PM to 06:10 PM		

Time	Paper ID	Title of paper with authors
02:50 PM -03:00 PM	HS028F	<i>Antiviral properties of microalgae and cyanobacteria- A Review</i> Authors: Manishaa Sri Mahendrana, Sinouvassane Djearmaneb ,Ling Shing Wongc ,Govindaraju Kasivelud, Anto Cordelia Tanislaus Antony Dhanapala
03:00 PM -03:10 PM	HS003	<i>Association Between Socioeconomic Status and Prediabetes in Madurai City</i> Authors: Grace Janet Mary Ann R., K. Karthiga, Arthur J. Asirvatham
03:10 PM -03:20 PM	HS004	<i>A survey on the knowledge of Subdural hematoma and its MRI appearance among the radiographers</i> Author: Tamijeselvean S
03:20 PM – 03:30 PM	HS005	<i>Knowledge, Attitude and Behaviour towards Anemia in Male Tertiary Education Students</i> Authors: Abdul Rahman, Liu Jie,T, Subramaniam, K and Loganathan, A
03:30 PM – 03:40 PM	HS006	<i>Homology Modelling of Neuromedin-U Type 2 Receptor and Molecular Docking Studies of Nmur-2 Specific Agonist Icariin.</i> Author: Vimala M. M.
03:40 PM – 03:50 PM	HS007	<i>Correlation of Fatigue Level with Pain, Depression and Function in Stroke Patients.</i> Authors: Seraj Abdulla EL twil, Mahadevi
03:50 PM -04:00 PM	HS008	<i>Knowledge and Application of Constraint-Induced Movement Therapy in Stroke Rehabilitation among Physiotherapists and Occupational Therapists</i> Authors: Mahmoud M. Dboba, Shantha. Kumar
04:10 PM -04:20 PM Break		
04:30 PM -04:40 PM	HS009	<i>Interpretation, Intervention to the Right to Life and Death with Dignity during Covid 19</i> Author: Biranchi Narayan P Panda



04:40 PM -04:50 PM	HS010	<i>Prevalence, Knowledge of anemia, Attitude, and Behaviour Preventing Anemia Among Female Students Pursuing Tertiary Education</i> <i>Authors: Liu Jie, T, Abdul Rahman, A, Subramaniam, K and Loganathan, A*</i>
04:50 PM -05:00 PM	HS011	<i>A Survey on Impact of Nutritional Status of Children under Mid-Day Meal Programme in Madurai</i> <i>Authors: D.Mouna, S.Sumayaa</i>
05:00 PM – 05:10 PM	HS012	<i>Evaluation of Dietary Intake and Food Consumption Pattern of Intellectually Disabled Children</i> <i>Authors: P. Magdalene Virjini, R. Jagan Mohan</i>
05:10 PM -05:20 PM	HS013	<i>Study on the Academic Performance of Anaemic Adolescent Girls</i> <i>Authors: C.Helen, R. Jagan Mohan</i>
05:20 PM -05:30 PM	HS014	<i>Application of Zinc oxide nanoparticles to Treat Infections Caused by Gram negative bacterium Pseudomonas aeruginosa</i> <i>Authors: Kirbashini Dhanasegaran, Sinouvassane Djearamane</i>
05:30 PM -05:40 PM	HS015	<i>Surface Interaction of Zinc Oxide Nanoparticles on Gram Positive Bacterium Bacillus Subtilis</i> <i>Authors: Anusheya Sundaraj, Sinouvassane Djearamane</i>
05:40 PM – 05:50 PM	HS016	<i>An investigation on interaction of Hydroxychloroquine with SARS-Cov-2- a structural, electronic, topological and reactivity properties view</i> <i>Author: R.Niranjana Devi</i>
05:50 PM – 06:00 PM	HS017	<i>Antibacterial Property Of Zinc Oxide Nanoparticles On Staphylococcus epidermidis</i> <i>Authors: Melvina Ann Robert, Sinouvassane Djearamane</i>
06.00 PM – 06.10 PM	HS018	<i>Effect Of Zinc Oxide Nanoparticles On Saccharomyces cerevisiae</i> <i>Authors: Tan Eng Pei, Sinouvassane Djearamane</i>
End of this Session Closing Ceremony at 6:20 PM		



Technical Sessions

Track 03		Life Sciences Session 02	
Session Chair 01	Dr. NarendiraKannan R.T, KonguNadu Arts and Science College (Affiliated to Bharathiar University), India		
Session Chair 02	Dr. M. Job Gopinath Voorhees College (Affiliated to Thiruvalluvar University), India		
Moderator	Senthil Vadivel, King Saud bin Abdulaziz University for Health Sciences, Kingdom of Saudi Arabia		
Session Link:	https://us02web.zoom.us/j/85872742830		
Timings	02:50 PM to 06:10 PM		

Time	Paper ID	Title of paper with authors
02:50 PM -03:00 PM	LS006F	<i>Comparative study of some Haematological and Biochemical blood parameters in fishes from the Natural Habitat, Madurai region</i> Authors: Malathi.N, Jaya supa sooriya,Shalini, Rino
03:00 PM -03:10 PM	LS007F	<i>Standardization of Carotenoid and Palm Jaggery Incorporated Functional Drink Jigarthanda</i> Authors: Revathi.P and Vasantha Esther Rani
03:10 PM -03:20 PM	LS001	<i>Isolation of Gut Microbes with Autofluorescence Potential from Earthworm Drawida pellucida pallida during Regeneration</i> Authors: Preethee S, Navanithra R, Deepthi M. P, Kathireswari P and Saminathan K
03:20 PM – 03:30 PM	LS003	<i>Influence of nutrient interactions on reproductive biomarker annetocin in earthworm Eudrilus eugeniae.</i> Authors: Deepthi. M.P, Rini Joseph, K. Saminathan, P. Kathireswari
03:30 PM – 03:40 PM	LS004	<i>Annetocin Gene Expression Pattern in Earthworm Perionyx Excavatus By Using Ficus Religiosa As Substrate</i> Authors: Rini Joseph, Deepthi M.P, Saminathan K. and Kathireswari .P
03:40 PM – 03:50 PM	LS006	<i>Decolourization of synthetic dyes by laccase enzyme from German Turnip</i> Authors: Shalini.N.S, Sarina.P.Khabade
03:50 PM -04:00 PM	LS007	<i>Isolation of the pectinase producing bacteria from Halophilic samples and partial purification of the pectinase enzyme</i> Author: Poojashree.T.H.
04:10 PM -04:20 PM		Break
04:20 PM -04:30 PM	LS009	<i>Corrosion Inhibition of Bauhinia racemosa Lam leaf extract on Mild Steel in Sulphuric acid Medium</i> Authors: R. Vasanthajothi, R. Saratha
04:30 PM -04:40 PM	LS010	<i>Estimation of Antioxidant, Cytotoxic Activity of Attatic Curanam</i> Authors: M.Suriyaprakash, A.Magesh, K. Jayabalan, R.Rajeshkannan



04:40 PM -04:50 PM	LS011	<i>Functional and Bioactive Properties of Bupleurum chinense DC and Clematis Chinensis Osbesk Mediated Green Synthesized Silver Nanoparticles.</i> <i>Authors: B. S. Ter, Sinouvassane Djearamane, L.S.Wong, F. F. N. Yeoh and T. A. D. Anto Cordelia</i>
04:50 PM -05:00 PM	LS012	<i>Impact of Green Synthesized Silver Nanoparticles using Taraxacum officinale and Astragalus membranaceus on Health Promoting Activities</i> Authors: F.F.N.Yeoh, Sinouvassane Djearamane, L.S. Wong B.S.Ter and T.A.D.Anto Cordelia
05:00 PM – 05:10 PM	LS013	<i>Evaluation of the Phytochemical Constituents, Antioxidant Capacity, Alpha Amylase Inhibitory Activity with special reference to the Hypoglycaemic Activity of Asparagus racemosus on Alloxan Induced Diabetic Rats</i> Authors: A.A.I.S.Menike, V.Paheerathan, R.Piratheepkumar, R.Sivakaneshan
05:10 PM -05:20 PM	LS014	<i>Antioxidant activity of edible mushroom Laetiporus versisporus (Lloyd Imazeki)</i> Authors: Farzana Fathima M.R, Usha Raja Nanthini A
05:30 PM-05:40 PM	LS008F	<i>Conservation Of Natural And Hertiage Resources In Madurai Region, Tamilnadu, India</i> Author: B. Poornimasethupathi
End of this Session Closing Ceremony at 6:20 PM		



Technical Sessions

Track 04		Engineering Session 03	
Session Chair 01	Assoc. Researcher Dr. D.Shanmukaraj, CIC Energigune, Minano, Alava Spain		
Session Chair 02	Assoc. Prof. Dr. M. Umashankar, VIT University, India		
Moderator	Sankara Kumaran Pandian, AIMST University, Malaysia		
Session Link:	https://us02web.zoom.us/j/82317519364		
Invited Talk	Prof. Dr. Lakshmana Kumar Ramasamy Hindustan college of engineering, India		
Timings	02:50 PM to 03:05 PM		

Time	Paper ID	Title of paper with authors
03:05 PM -03:15PM	E008F	<i>Electroless Ni-P-TiO₂ (ENPT) composite coating: A review on microstructural characteristics, multifarious properties and feasibility analysis for surgical instruments.</i> Authors: Imtiaz Ahmed Shozib, Azlan Ahmad, Ahmad Majdi Abdul-Rani and Nuzhat Tasnim
03:15 PM -03:25 PM	E009F	<i>The Prospect of Green Energy and Technology in Bangladesh</i> Authors: Md. Abu Hasan Al Askary, Md. Rafiqul Islam Ronok, Md. Abdul Kader, and Md. Tauhid ur Rahman
03:25 PM -03:35 PM	E010F	<i>Performance Comparison of Colour Spaces for Specular Highlights Segmentation</i> Authors: Atif Anwer, Nidal Kamel, Samia Ainouz, Syed Saad Azhar Ali
03:35 PM - 03:45 PM	E011F	<i>E-waste Recycling Management in Enhancing Sustainability.</i> Authors: Prashanth Beleya, Chong Wee Ki, Ng Jack Yien, Geetha Veerappan, & Anto Cordelia
03:45 PM - 03:55 PM	E012F	<i>Bio Plant System in Urban Area: An Ideal Model</i> Authors: Muqit Farhan, Muhammed Rashik Mojid, Muhib and Farhan
03:55 PM - 04:05 PM	E013F	<i>Multi objective spotted hyena optimizer for 3D well path optimization.</i> Authors: Kallol Biswas Touhidul Islam Jewel Sikder Joy Pandian Vasant Jose Antonio Gamez Vintaned, Junzo Watada
04:05 PM -04:15 PM	E014F	<i>Metaheuristic Approaches to Optimize Supply Chain Design Problems</i> Authors: Md Ashikur Rahman, Pandian M Vasant, and Rajalingam Sokkalingam
04:15 PM -04:20 PM	Break	



04:20 PM -04:30 PM	E015F	<i>Travel behavior and health: Interaction of Activity-Travel Pattern, Travel Parameter and Physical Intensity</i> Authors: Mujahid Ali ¹ , Dimas B.E. Dharmowijoyo, Indra S.H. Harahap, Anas Puri, Liza Evianti Tanjung
04:30 PM -04:40 PM	E016F	<i>Well Placement Optimization Using Quantum-inspired Particle Swarm Optimization Algorithm</i> Authors: Jahedul Islam, Pandian M. Vasant, Ahshanul Hoque, Tawhida Akand, Berihun Mamo Negash
04:40 PM -04:50 PM	E017F	<i>Classification of coronavirus (COVID -19) using images by Machine Learning Methods.</i> Authors: Usha, P.Ramkumar
04:50 PM -05:00 PM	E018F	<i>A Benchmarking Approach with Missing Values using Data Envelopment Analysis for Non-Symmetrical Fuzzy Data</i> Authors: Shivi Agarwal and Trilok Mathur
05:00 PM – 05:10 PM	HS003F	<i>COVID-19: A Novel Framework to Globally Track Coronavirus Infected Patients using Blockchain</i> Authors: Mohamed Rimsan, Ahmad Kamil Mahmood, Muhammed Umair, Farrukh Hassan, Fathima Asma
05:10 PM -05:20 PM	HS004F	<i>Fatigue Assessment of Oil and Gas Tanker Drivers: psychomotor vigilance test (PVT-192)</i> Authors: Al-Baraa Abdulrahman Al-Mekhlafi
05:20 PM – 05:30 PM	E019F	<i>Sulfonated activated sugarcane bagasse as heterogeneous catalyst for biodiesel production from waste cooking oil via microwave irradiations</i> Authors: Muhammad Hamza Nazir, Muhammad Ayoub, Rashid B Shamsuddin, Imtisal Zahid
05:30 PM – 05:40 PM	E20F	<i>Glycerol derivatives as fuel additive: Synthesis of solketal from glycerol and acetone with various acid clay catalysts</i> Authors: Imtisal Zahid, Muhammad Ayoub, Bawadi B. Abdullah, Hamza Nazir,
End of this Session Closing Ceremony at 6:20 PM		

Technical Sessions

Track 05 Information Technology & Computer Science Session 01	
Session Chair 01	Dr. D. Napoleon Bharathiar University, India
Session Chair 02	Assoc. Prof. Dr. Malathy Batumalay INTI International University, Malaysia
Moderator	Vinosh Kumar Purushothaman, INTI International University.
Session Link:	https://us02web.zoom.us/j/82695376639
Invited Talk by	Prof. Dr. Balamurugan Balusamy, Galgotias University, India
Timings	02:50 PM to 3:05 PM



Time	Paper ID	Title of paper with authors
03:10 PM – 03:20 PM	ITCS003F	<i>E-Learning via Cloud Computing</i> Authors: Nikhil Ranjan, Rajesh Kumar Dhanraj
03:20 PM – 03:30 PM	ITCS004F	<i>Quaternion Long-Short Term Memory Neural Network based Joint-Training for Noise Robust Hindi Speech Recognition</i> Authors: Ankit Kumar, Rajesh Kumar Aggarwal
03:30 PM – 03:40 PM	ITCS005F	<i>A Critical Study to Understand Privacy Concerns with COVID-19 Patient data</i> Authors: Pushpendu Rakshit, Pramod Kumar Srivastava, Shailendra Kumar Srivastava, Yogender Kumar, Vishal Kumar
03:40 PM – 03:50 PM	ITCS007F	<i>Extension of TAM Explaining the Determinants of I-Banking Adoption: Bangladesh Perspective</i> Authors: Mohamaad Rokibul Kabir, Md. Aminul Islam
03:50 PM – 04:00 PM	ITCS008F	<i>Towards Green It Using Cloud Computing For Sustainable Environment</i> Authors: D. Jeya Mala, Dr.S.Vidya
04:00 PM – 04:10 PM	ITCS009F	<i>A Survey of Software Complexity Metrics</i> Author: A .Meshach Ponraj,
BREAK (04:10 PM to 04:20 PM)		
04:20 PM – 04:30 PM	ITCS010F	<i>Comparison of Association Rule Mining Algorithms in Data Mining: A Survey</i> Authors: R. Smeeta Mary, K.Perumal
04:30 PM – 04:40 PM	ITCS011F	<i>Blood Cell Classification on Medical Hyperspectral Imagery for Multi-Graph Convolution Neural Network</i> Author: Thangaselvi. P, T. Arumuga Maria Devi
04:40 PM – 04:50 PM	ITCS012F	<i>Diagnosis of Lung Cancer on Big Data Analytics</i> Author: T. Arumuga Maria Devi, C. Subbu
04:50 PM – 05:00 PM	ITCS013F	<i>Retail Data Analytics</i> Authors: T. Arumuga Maria Devi, Mr. I. Saravanan
05:00 PM – 05:10 PM	ITCS014F	<i>Movie Recommendation System</i> Authors: T. Arumuga Maria Devi, Ms. M. Veni
05:10 PM – 05:20 PM	ITCS001	<i>Detecting Pneumonia Lung Infection from X-ray images with Deep Learning</i> Authors: Mridul Mazumdar, Rajesh Kumar Dhanaraj

05:20 PM – 05:30 PM	ITCS002	<i>Improved Encryption Towards Data Security in Serverless Computing</i> Authors: A.Arulprakash, R.Viswanathan
05:40 PM – 05:50 PM	ITCS004	<i>Face recognition-based Attendance Management System</i> Authors: Sagar Rawal
05:50 PM – 06:00 PM	ITCS005	<i>Real Time SA of Tweets Using ML and Semantic Analysis</i> Author: Pranjal Mishra
06:00 PM – 06:10 PM	ITCS006	<i>Covid-19 Footprints Working of Information Technology and Support</i> Author: Ms. Sharda Jha
06:10PM–06:20PM	ITCS002	<i>Improved Encryption Towards Data Security In Serverless Computing</i> Authors: Arulprakash, R.Viswanathan
End of this Session Closing Ceremony at 06:20 PM		



Technical Sessions

Track 06 Business, Management & Humanities (BMH) Session 01	
Session Chair 01	Prof. (Dr.) C K Singh Chhatrapati Shivaji Maharaj University, India
Session Chair 02	Dr. Manoj Kumar Dash, Khallikote University; Berhampur , India
Moderator	Mohammad Imtiaz Hossain Universiti Putra Malaysia (UPM), Malaysia
Session Link:	https://us02web.zoom.us/j/82965360618
Invited Talk by	Prof. Dr. S RAJU, Fatima College (autonomous), India
Timings	02:50 PM to 3:05 PM

Time	Paper ID	Title of paper with authors
03:10 PM -03:20 PM	BMH001F	<i>Organizational Agility Determinants: Impact on Safety Performance with Mediating Role of Safety Commitment: A Conceptual Framework</i> Authors: Muhammad Ajmal, Shahrina Md Nordin, Ahmad Shahrul Nizam Bin Isha, Gehad Mohammed Ahmed Naji, Al-Baraa Abdulrahman Al-Mekhlafi
03:20 PM -03: 30 PM	BMH002F	<i>Impact of Safety Culture and Psychosocial Hazard on Safety Performance Among Upstream Employees in Oil and Gas Sector of Malaysia</i> Authors: Gehad Mohammed Ahmed Naji, Ahmad Shahrul Nizam Isha, Osama Sharafuddin, Mohammed Alzoraiki, AL-Baraa Abdulrahman AL-Mekhlafi, and Muhammad Shoaib Saleem
03:30 PM – 03:40 PM	BMH003F	<i>Gautam Vasudev Menon: Traveler, Tourist and a Tour guide: A study on Travel reasons, Motives and Placement in his Films.</i> Authors: N. Sriganeshvarun, Jayaprakash D
03:40 PM – 03:50 PM	BMH005F	<i>Impact of covid-19 on Indian Economy, E-commerce, Education and Employment</i> Authors: Alka Sharma, Sushma Kumari
03:50 PM – 04:00 PM	BMH006F	<i>Study of Policy and Legal Framework on Right to Water: From Global Justice Perspective</i> Authors: S.M. Aamir Ali, Anuttama Ghose
BREAK (04:00 PM to 04:20 PM)		
04:20 PM – 04:30 PM	BMH007F	<i>An Analysis of the Factors Affecting the Indian Rupee Volatility</i> Authors: B. Ramesh and Savina A Rebello
04:30 PM - 04:40 PM	BMH008F	<i>Alternative Skills Assessment Utilising Collaborative Design Instrumentation in Enhancing Digital Learning Systems</i> Authors: Soon Eu Hui, Nur'azah Abdul Manaf, Sabariah Baharin and Mohd Naz'ri Bin Mahrin



04:40 PM – 04:50 PM	BMH009F	<i>Effects of Blended Learning between Massive Open Online Course and Regular Conventional Course in Thailand's University</i> Author: Priyanut Wutti Chupradit, Nongluck Kienngam, Chanoknart Wongburanavart, Tharn Thongngok and Supat Chupradit
04:50 PM – 05:00 PM	BMH010F	<i>Impact of Corporate Characteristics on Human Capital Disclosure: Evidences from Bangladesh Banking Industry</i> Authors: Fahmida Akhter, Mohamaad Rokibul Kabir
05:00 PM – 05:10 PM	BMH011F	<i>Strategic financial performance evaluation, Ranking and bankruptcy prediction of Indian Petroleum Industry</i> Author: Mohd Afjal
05:10 PM – 05:20 PM	BMH012F	<i>A Critical Study to Comprehend Amendments in Indian Education System Post COVID-19</i> Authors: Mohd Afjal & Pushpendu Rakshit
05:20 PM – 05:30 PM	BMH001	<i>Full-version or Partial-version of Theory of Planned Behaviour Framework? The Role of Salient Beliefs' Influences on Malaysian Academics' Intention to Publish in Indexed Journals</i> Authors: Mosharrof Hosen, Yee-Lee Chong, Lin-Sea Lau
05:40 PM – 05: 50 PM	BMH004F	<i>An Intercontinental Comparative Financial Analysis of Civil Airlines Business</i> Authors: Pramod Kumar Srivastava, Pushpendu Rakshit, Yogender Kumar, Vishal Kumar, C. K. Singh, Mohd. Afjal
End of this Session Closing Ceremony at 06:20 PM		



