

PROGRAMME BOOK

INTERNATIONAL CONFERENCE ON MATHEMATICS: COMPUTATIONAL AND THEORETICAL SCIENCES

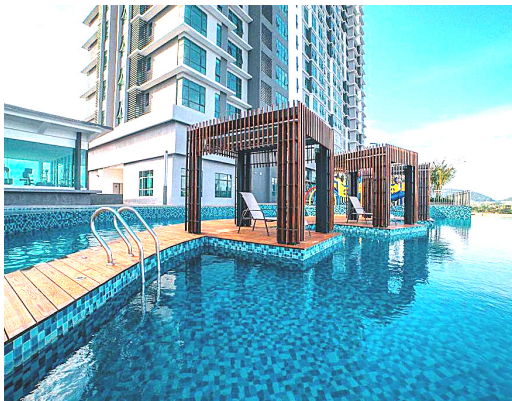
Mathematics for Sustainability

ICMCT 2023

Mathematics for Sustainability

**SWISS-BELHOTEL KUANTAN,
PAHANG, MALAYSIA**

8 - 10 AUGUST 2023



Main Organizer:



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
بوتن برسني انشالان انتال انجسنا بلديسنا
Garden of Knowledge and Virtue

**KULLIYAH
OF SCIENCE**



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FOREWORD
DEAN KULLIYAH OF SCIENCE
INTERNATIONAL ISLAMIC
UNIVERSITY MALAYSIA (IIUM)



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

Assalamualaikum wrt wbt. and Salam Sejahtera,

Dear esteemed participants and distinguished guests,

It is with great pleasure that I welcome you all to the 1st International Conference on Mathematics: Computational and Theoretical Sciences (ICMCTS) 2023. It fills me with immense pride to witness the gathering of brilliant minds in the pursuit of advancing mathematical knowledge and its applications for sustainability.

The theme of this conference, "Mathematics for Sustainability" encapsulates our shared commitment to leveraging the power of mathematics to address the pressing challenges of our time. In a world where our planet faces complex and interconnected issues, from climate change to resource management, mathematics provides us with the tools to analyze, model, and develop sustainable solutions.

Throughout the conference, you will have the opportunity to engage with renowned experts in diverse areas of mathematics, ranging from computational mathematics to theoretical sciences. The program is thoughtfully designed to include stimulating presentations, enlightening panel discussions, and interactive workshops, all aimed at fostering intellectual growth and interdisciplinary dialogue.

On behalf of Kulliyah of Science, I extend my sincere gratitude to the organizing committee, the dedicated conference staff, and our esteemed sponsors for their relentless efforts in bringing this event to fruition. Their unwavering commitment to fostering academic excellence is commendable and has ensured the success of this conference.

Lastly, I would like to express my deep appreciation to all the presenters and attendees who have travelled from far and wide to be part of this conference. Your presence and contributions are invaluable, and I have no doubt that your involvement will make this event a resounding success.

Thank you, and I wish you all an inspiring and fruitful conference.

"Leading the Way"
"Leading the World"

Sincerely,
Assoc. Prof. Dr. Zarina Zainuddin
Dean,
Kulliyah of Science



CHAIRMAN'S FOREWARD INTERNATIONAL CONFERENCE ON MATHEMATICS: COMPUTATIONAL AND THEORETICAL SCIENCES (ICMCTS) 2023

Selamat Sejahtera,

Dear esteemed participants and distinguished guests,

I would like to take this opportunity to extend a warmest welcome to the distinguished delegates and participants to the first International Conference on Mathematics: Computational and Theoretical Sciences (ICMCTS) 2023.

The commitment shown by the Deputy Rector of IIUM, Professor Dr Akmal Khuzairy Abd Rahman in taking time from his busy schedule to officiate this conference is gratefully acknowledged. It is a great honour for us to have our plenary speakers, renowned in their own fields, namely Professor Dr Bakhtiyor Baizakov from Academy of Sciences, Uzbekistan and Professor Dr Mohd Salmi Md Noorani from Universiti Kebangsaan Malaysia. As the Chairman of this conference, I am delighted to gather with all of you in the pursuit of advancing mathematical knowledge and exploring its transformative potential in the face of sustainability challenges. Mathematics has long been a cornerstone of scientific and technological progress, providing us with a language to understand the fundamental principles that govern our world. In this era of ever-increasing complexity, it is imperative that we leverage the power of mathematics to address the critical issues that threaten our planet's sustainability. The theme of this conference, "Mathematics for Sustainability," resonates deeply with our collective responsibility to protect and nurture our environment, society, and future generations. Throughout this conference, we have brought together some of the brightest minds in the field of mathematics, computational sciences, and theoretical research. The program is designed to foster engaging discussions, promote interdisciplinary collaborations, and inspire innovative solutions that can drive positive change.

And last but not least, I would like to take this opportunity to express my sincere appreciation to the team of organizing committees, the student volunteers, the Kulliyah of Science and to all the sponsors, which has made the successful management of this conference possible.

I wish you all a rewarding and inspiring conference experience. May the connections forged, ideas exchanged, and collaborations initiated during this event leave a lasting impact on our journey towards sustainability.

Assoc. Prof. Dr Pah Chin Hee

Chairman,

International Conference on Mathematics: Computational and Theoretical Sciences (ICMCTS) 2023

PROGRAMME ITINERARY

DAY 1 (8 August 2023, Tuesday)

Time	Activity	Venue
08:00 - 08:50	Participant's registration and arrival	
08:50 - 09:00	<p>VIP Arrival Prof. Dr. Akmal Khuzairy Bin Abd. Rahman Deputy Rector (Student Development & Community Engagement), IIUM</p> <p>Prof. Dr. Azmi Md Nor Campus Director, IIUM Kuantan</p> <p>Assoc. Prof. Dr. Zarina Zainuddin Dean, Kulliyah of Science (KOS)</p> <p>Prof. Dr. Ahmad Aidil Arafat Bin Dzulkarnain Dean, Kulliyah of Applied Health Science</p> <p>Assoc. Prof. Dr. Juliana Bt. Md. Jaffri Dean, Kulliyah of Pharmacy</p> <p>Capt. (R) Asst. Prof. Dr. Mohd Haikal Muhamad Halil Dean, Kulliyah of Dentistry</p> <p>Prof. Dr. Jamalludin Bin Ab Rahman Dean, Kulliyah of Medicine</p> <p>Assoc. Prof. Dr. Muhammad Kamil Bin Che Hasan Dean, Kulliyah of Nursing</p> <p>Asst. Prof. Dr. Wan Nur Fairuz Alwani Wan Rozali HOD, Computational and Theoretical Sciences, KOS</p> <p>Assoc. Prof. Dr. Pah Chin Hee Chairman, ICMCTS 2023</p>	Swiss 1, Level 3A

PROGRAMME ITINERARY

DAY 1 (8 August 2023, Tuesday)

Time	Activity	Venue
09:00 - 09:05	Doa Recitation	Swiss 1, Level 3A
09:10 - 09:15	Welcoming Remarks by Chairman, ICMCTS 2023	
09:15 - 09:25	Officiating Remarks by Deputy Rector, IIUM	
09:25 - 09:30	Photography Session	
09:30 - 09:45	Coffee Break	Foyer Swiss 1 , Level 3A
09:45 - 11:00	Plenary Speaker I Prof. Dr. Bakhtiyor Baizakov Physical Technical Institute, Academy of Sciences, Tashkent, Uzbekistan	Swiss 1, Level 3A
11:00 - 12:45	Oral Presentation Session 1	
12:45 - 14:00	Lunch Zohor Prayer	Swiss-Café, Ground Floor Prayer Room, Level 5
14:00 - 15:15	Oral Presentation Session 2	Swiss 1, Level 3A
15:15 - 16:45	Oral Presentation Session 3 (Virtual)	Foyer Swiss 1, Level 3A
16:45 - 17:00	Coffee Break	Foyer Swiss 1, Level 3A
17:00	End of Day 1	

PROGRAMME ITINERARY

DAY 2 (9 August 2023, Wednesday)

Time	Activity	Venue
08:00 - 09:00	Registration ICMCTS 2023	Swiss 1, Level 3A
09:00 - 09.30	Invited Speaker I Dr. Mohd Ali Khameini Ahmad Department of Mathematical Sciences, Faculty of Science, Universiti Teknologi Malaysia	
09:30 - 10:00	Invited Speaker II Dr. Ahmad Fadillah Embong Department of Mathematical Sciences, Faculty of Science, Universiti Teknologi Malaysia	
10:00 - 10:15	Coffee Break	Foyer Swiss 1, Level 3A
09:30 - 10:45	Oral Presentation Session 4	Swiss 1 , Level 3A
10:45 - 11:00	Oral Presentation Session 5	
12:30 - 14:00	Lunch Zohor Prayer	Swiss-Café, Ground Floor
14:00 - 15:30	Oral Presentation Session 6 (Virtual)	Swiss-Café, Ground Floor
15:30 - 17:00	Oral Presentation Session 7 (Virtual)	Swiss 1, Level 3A
17:00 - 19:00	Hi-Tea	Foyer, Swiss Ballroom Level 5
17:00	End of Day 2	

PROGRAMME ITINERARY

DAY 3 (10 August 2023, Thursday)

Time	Activity	Venue
08:00 - 09:00	Registration Workshop (WDS) 2023	
09:00 - 10:00	Plenary Speaker II – Workshop (WDS) 2023 Prof. Dr Mohd Salmi Md Noorani (Pre-Recorded Lecture) Department of Mathematical Sciences, Universiti Kebangsaan Malaysia (UKM)	Swiss 1, Level 3A
10:00 - 10:15	Coffee Break	Foyer Swiss 1, Level 3A
10:15 - 12:30	(Cont.) Workshop (WDS) 2023 Dr Mohd Sabri Ismail (Hands-On Session) Department of Mathematical Sciences, Universiti Kebangsaan Malaysia (UKM)	Swiss 1 , Level 3A
12:30 - 14:00	Lunch Zohor Prayer	Swiss-Café, Ground Floor Prayer Room, Level 5
14:00 - 15:10	Oral Presentation Session 8	Swiss 1, Level 3A
15:10 - 15:30	Coffee Break	Foyer Swiss 1, Level 3A
15:30 - 15:35	VIP & Guests Arrival Asst. Prof. Dr. Wan Nur Fairuz Alwani Wan Rozali Head of Department, Computational and Theoretical Sciences (CTS), KOS, IIUM Assoc. Prof. Dr. Pah Chin Hee Chairman, ICMCTS 2023	Swiss 1, Level 3A

PROGRAMME ITINERARY

DAY 3 (10 August 2023, Thursday)

Time	Activity	Venue
15:35 - 15:40	Doa Recitation	Swiss 1, Level 3A
15:40 - 16:00	Closing remarks by Head of Department, CTS	
16:00 - 16:05	Montage	
16:05 - 16:10	Best Presenter Awards	
16:10 - 16:15	Photography Session	
16:15	End of ICMCTS	

PLENARY SPEAKERS BIOGRAPHY



PROF. DR BAKHTIYOR BAIZAKOV

Professor Dr. Bakhtiyor Baizakov, a renowned academic and expert in Bose-Einstein condensates and multidimensional solitons, has over two decades of experience in research, teaching, and mentoring. Born in Samarkand, Uzbekistan, Prof. Bakhtiyor pursued higher education at Tashkent State University and the National University of Uzbekistan, demonstrating his passion for nonlinear systems from an early age. Prof. Bakhtiyor's work has been published in reputable journals and widely cited, solidifying his reputation as an authority in his field. His exceptional scholarly achievements have been recognized with accolades, including the prestigious Best Fundamental Research in Natural Sciences prize. Professor Bakhtiyor also actively contributes to the scientific community through his service as a referee for prominent journals. His profound knowledge, dedication, and commitment to education drive advancements in understanding the dynamics of nonlinear systems and inspire fellow researchers and students.



PROF. DR MOHD SALMI MD NOORANI

Prof. Mohd Salmi Md. Noorani received bachelor, M.Sc., and Ph.D. degrees in mathematics from the University of Warwick, U.K. He is a Professor at the Department of Mathematical Sciences, Universiti Kebangsaan Malaysia, Bangi, Malaysia, and has over 35 years of experience related to mathematical teaching and research in either pure or applied. His research interests include functional analysis, topology, ergodic theory, and dynamical systems.

INVITED SPEAKER SESSIONS



DR. MOHD ALI KHAMEINI AHMAD

Dr. Mohd Ali Khameini Ahmad is a highly accomplished scholar and a lecturer in the Department of Mathematical Sciences, Faculty of Science, Universiti Teknologi Malaysia, located in Johor Bahru. With his strong educational background, holding two PhD degrees in Computational & Theoretical Science and Mathematics, respectively, from IIUM and Paris-Est Sup, he brings a wealth of knowledge and expertise to his academic role. Dr. Mohd Ali Khameini Ahmad specializes in areas such as Dynamical Systems, Statistical Mechanics, and p-Adic Analysis. His dedication to academic excellence is reflected not only in his 13 published articles but also in his commitment to guiding and supervising one master by research student. As a lecturer, he plays a vital role in shaping the next generation of scholars in the field of mathematical sciences, making significant contributions to both research and education.



DR. AHMAD FADILLAH EMBONG

Dr. Ahmad Fadillah bin Embong is an accomplished scholar with a strong background in mathematical sciences. He obtained his Bachelor of Mathematical Sciences (Honours), Master of Science (Computational and Theoretical Sciences) - Mathematics, and Doctor of Philosophy (Computational and Theoretical Sciences) - Mathematics from IIUM, Kuantan. Currently, he serves as a lecturer in the Department of Mathematical Sciences, Faculty of Science, Universiti Teknologi Malaysia. Dr. Ahmad has contributed significantly to the field through 19 published papers in referred journals and indexed proceedings. His recent publications cover diverse topics, including Lyapunov functions and dynamics of infinite-dimensional Volterra operators, genetic algebras generated by b-bistochastic quadratic stochastic operators, characterization of attractors in a prey-predator interaction model, and fixed points of b-Bistochastic-Volterra quadratic stochastic operators. His research has also delved into projective surjectivity of quadratic stochastic operators and solvability of nonlinear integral equations. Dr. Ahmad Fadillah bin Embong's academic achievements and contributions have solidified his reputation as an accomplished researcher and educator in the field of mathematics.

IN CONJUNCTION WITH ICMCTS 2023

IN CONJUNCTION WITH



WORKSHOP ON DYNAMICAL SYSTEMS AND THEIR APPLICATIONS (WDS) 2023

UNDERSTANDING RAW DATA OF DYNAMICAL SYSTEMS VIA PERSISTENT HOMOLOGY

ABSTRACT

Given a system evolving with time - a dynamical systems - one can usually measure certain aspects of the system which results in raw data technically known as a time series. One then hopes to better understand the original system by examining this raw data looking for features such as periodicity, quasiperiodicity or even chaos. In this workshop, we shall introduce to the participants the rapidly expanding field of persistent homology as an alternative way to determined the said features. We shall also discuss how persistent homology analyses bifurcations of the system which in turn can be used as a framework to propose for an early warning signals from the raw data. This workshop will have both theoretical and hands-on sessions.

DETAILS:

-  Swiss-Belhotel Kuantan, Pahang, Malaysia
-  10 August 2023 (Thursday)
-  9.00 am - 12.30 pm MYT

SPEAKERS



**PROF. DR MOHD SALMI
MD NOORANI
(UKM, MALAYSIA)**



**DR MOHD SABRI ISMAIL
(UKM, MALAYSIA)**

Organized by:

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 1 (8 Aug 2023, Tuesday)

Session 1: Statistics, Financial Mathematics & Operational Research

Onsite Presentation

Chairperson: Assoc. Prof. Dr. Mimi Hafizah Abdullah

Time	Presenter	ID	Title	Affiliation
11:00 - 11:20	Rose Irnawaty Ibrahim	20	Analysis of Changes in Total Actuarial Liabilities using Projected Unit Credit Method	Universiti Sains Islam Malaysia
11:20 - 11:40	Muhammad Syarif Ghazali	27	Load-Based Constructive Heuristics for a Greener Solution of Vehicle Routing Problem	International Islamic University Malaysia
11:40 - 12:10	Nur Fatini Rasidi	21	Estimating Optimal Resource Allocation in Inpatient Department Using Simulation and Data Envelopment Analysis	UiTM Kelantan, Kota Bharu Branch
12:10 - 12:30	Ibrahim Musa Ahmad	22	Impact of Jigsaw IV Cooperative Learning Approach on Students' Academic Performance in Mathematics	Hassan Usman Katsina Polytechnic, Katsina - Nigeria

PRESENTATION SCHEDULE ICMCTS 2023

DAY 1 (8 Aug 2023, Tuesday)

Session 2: Pure Mathematics
Onsite Presentation
Chairperson: Dr Siti Fatimah Zakaria

Time	Presenter	ID	Title	Affiliation
14:00 - 14:20	Nik Aizad Nik Hasmi	02	Zeros of Partition Function For Z_5 - Symmetric Models On Square Lattice - Special Case	International Islamic University Malaysia
14:20 - 14:40	Mohammad Hanif Saleh	11	Dynamics On 3-Dimensional Lattice	International Islamic University Malaysia
14:40 - 15:00	Nur Alis Aqeelah Mohd Fadzullah	17	New Poisson Quadratic Stochastic Operator Generated by 2-partition	International Islamic University Malaysia

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 1 (8 Aug 2023, Tuesday)

Session 3: Applied Mathematics
Virtual Presentation

Chairperson: Dr. Nor Raihan Mohd Asimoni

Time	Presenter	ID	Title	Affiliation
15:10 - 15:30	Hazlina Darman	09	Predicting Haze Phenomenon using Chaos Theory	Universiti Pendidikan Sultan Idris (UPSI)
15:30 - 15:50	Hazlina Darman	10	Performance Comparison of Haze Prediction using Chaos Theory and Multiple Linear Regression	Universiti Pendidikan Sultan Idris (UPSI)
15:50 - 16:10	Tan Jessica Yen Lyn	33	Learning Analytic Framework for Students' Academic Performance and Critical Learning Pathways	University Tunku Abdul Rahman
16:10 - 16:30	Nur Zafirah Mohd Sidek	36	The Effect of a Magnetic Field on the Process of Mixed Convection Heat Transfer in a Square Cavity with Sinusoidal Heating	Universiti Tun Hussein Onn Malaysia

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 2 (9 Aug 2023, Wednesday)

Session 4: Pure Mathematics

Onsite Presentation

Chairperson: Dr. Wan Nur Fairuz Alwani Wan Rozali

Time	Presenter	ID	Title	Affiliation
10:15 - 10:35	Siti Nurlaili Karim	18	On Lebesgue Quadratic Stochastic Operators with Exponential Measure Generated by 3-Partition	Universiti Tunku Abdul Rahman
10:35 - 10:55	Azizi Rosli	28	Non-ergodic Lotka-Volterra operator defined on 2-dimensional simplex	International Islamic University Malaysia

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 2 (9 Aug 2023, Wednesday)

Session 5: Applied Mathematics
Onsite Presentation
Chairperson: Dr Muhammad Salihi Abdul Hadi

Time	Presenter	ID	Title	Affiliation
11:00 - 11:20	Anis Sulaikha Samiun	12	MHD Mixed Convective Flow of Power-law Buongiorno's Nanofluid in a Lid-driven Cavity with Solid Triangular Block in the Presence of Heat Generation/Absorption and Chemical Reaction Effects	International Islamic University Malaysia
11:20 - 11:40	Amir Farhan Mohammad Zamri	16	Non-ergodic Lotka-Volterra operator defined on 2-dimensional simplex	International Islamic University Malaysia
11:40 - 12:10	Lukhman Abdul Taib	32	Compactons in Spin-Orbit Coupled Nonlinear Schrödinger Lattices with Strong Nonlinearity Management	International Islamic University Malaysia
12:10 - 12:30	Norshafira Ramli	34	Joule Heating, Thermal Radiation and Slip Effects on Magnetohydrodynamic Flow and Heat Transfer over an Exponentially Stretching/Shrinking Sheet in Ferrofluids	Universiti Sains Malaysia

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 2 (9 Aug 2023, Wednesday)

Session 6: Pure Mathematics
Virtual Presentation
Chairperson: Dr. Supian Mat Salleh

Time	Presenter	ID	Title	Affiliation
14:00 – 14:20	Aini Janteng	23	Subclasses of Analytic Functions of Complex Order with Application of q Derivative Operator	Universiti Malaysia Sabah
14:20 – 14:40	Aini Janteng	24	A Subclass of Bi-univalent Functions by Applying Sălăgean q -Differential Operator	Universiti Malaysia Sabah
14:40 – 15:00	Nasir Ganikhodjaev	26	Non-ergodic Quadratic Stochastic Operators with Countable State Space	Institute of Mathematics, Tashkent, Uzbekistan
15:00 – 15:20	Shujauddin Shuja	30	Hyperstability Results for The General Linear Functional Equation in NonArchimedean 2-Banach Spaces	Universiti Teknologi Malaysia

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 2 (9 Aug 2023, Wednesday)

Session 7: Statistics & Financial Mathematics
Virtual Presentation

Chairperson: Dr. Siti Marponga Tolos

Time	Presenter	ID	Title	Affiliation
15:30 - 15:50	Allhaji Abdullahi Gwani	01	GIS-based trend analysis on Renewal energy Consumption and Production in Africa	Universiti Sains Malaysia
15:50 - 16:10	Sim Khang Yi	06	Examining the Effectiveness of Monetary Policy in Asia4: The pre- and post-crisis 1997 Analysis	Universiti Sains Malaysia
16:10 - 16:30	Sim Khang Yi	07	GIS-Based and Geospatial Analysis: Mapping and Visualizing the Trend of Covid-19 Data in Asia	Universiti Sains Malaysia
16:30 - 17:00	Beh Woan Lin	08	Impact Analysis of the Malaysia's Economy on the Palm Oil Stock Returns in Malaysia, Singapore and Indonesia Through NARDL Model	Universiti Tunku Abdul Rahman

PRESENTATION SCHEDULE

ICMCTS 2023

DAY 3 (10 Aug 2023, Thursday)

Session 8: Applied Mathematics

Onsite Presentation

Chairperson: Dr. Nor Amirah Mohd Busul Aklan

Time	Presenter	ID	Title	Affiliation
14:00 – 14:20	Amer Salman	19	Sustainable COVID-19 control measures: A math modelling study	Universiti Sains Malaysia
14:20 – 14:40	Ummu Atiqah Mohd Roslan	31	Dynamic Modelling for Assessing the Impact of Marine Debris on the Population of Sea Turtles	Universiti Malaysia Terengganu
14:40 – 15:10	Ahmad Zaki Mohamad Amin	35	Mixed Convection in A Double LidDriven Square Cavity Filled with Hybrid Nanofluid in The Presence of Magnetic Field and Sinusoidal Heating	Universiti Tun Hussein Onn Malaysia

ORGANIZING COMMITTEES

PATRON

*Prof. Emeritus Tan Sri Dato' Dzulkifli Abdul Razak,
Rector of IIUM*

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Dean,
Kulliyah of Science*

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Computational and Theoretical Sciences Department,
Kulliyah of Science*

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Dr. Nur Zatul Akmar Hamzah

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Dr. Siti Marponga Tolos
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Programme Book & Publication

Dr. Wan Nur Fairuz Alwani Wan Rozali

Br. Azizi Rosli

Br. Muhammad Fahem Musa

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Dr. Zulmaryan Embong

Dr. Wan Malissa Wan Mohd Aminuddin

Dr. Nor Raihan Mohamad Asimoni (Scientific Committee)

Br. Aqil Danish Jusoh

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Dr. Wan Nur Fairuz Alwani Wan Rozali

Dr. Nor Raihan Mohamad Asimoni

Technical Committee

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Assoc. Prof. Dr. Mimi Hafizah Abdullah (Financial Mathematics)

Dr. Siti Fatimah Zakaria (Pure Mathematics)

Dr. Muhammad Salihi Abdul Hadi (Applied Mathematics)

Dr. Nurul Najihah Mohamad (Statistics)

Dr. Norfaieqah Ahmad (Operational Research)

Dr. Ummu Atiqah Mohd Roslan (Pure Mathematics)

CONFERENCE VENUE INFORMATION

CONFERENCE ROOM/ SESSIONS

Swiss 1 Level 3A

COFFEE BREAK

Swiss 1 Foyer Level 3A

HI-TEA

Foyer Level 5

PRAYER ROOM

Level 5 near swimming pool

LUNCH

Swiss Cafe Ground Floor

WIFI

Swiss-Belhotel Public

VEHICLE PARKING

Level Ground Floor up to Level 3A

Hotel Parking ONLY

SPECIAL THANKS



McDonald's Indera Mahkota



Dumex Kuantan

KINDI KHAWARIZMI ENTERPRISE

Kindi Khawarizmi Enterprise



Pahang Tourism



ICMCTS 2023 DEPT. CTS

Main Organizer:



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
Garden of Knowledge and Virtue

**KULLIYAH
OF SCIENCE**

