

**MINISTRY OF HIGHER AND SECONDARY SPECIAL EDUCATION OF THE
REPUBLIC OF UZBEKISTAN**



PROGRAM

**OF THE UZBEKISTAN-MALAYSIA INTERNATIONAL ONLINE CONFERENCE ON
"COMPUTATIONAL MODELS AND TECHNOLOGIES (CMT2020)"**

**NATIONAL UNIVERSITY OF UZBEKISTAN & UNIVERSITI TEKNOLOGI MARA (UITM)
V.I. ROMANOVSKIY INSTITUTE OF MATHEMATICS UZBEKISTAN ACADEMY OF SCIENCES
NAVOI STATE PEDAGOGICAL INSTITUTE
SAMARKAND BRANCH OF TASHKENT UNIVERSITY OF INFORMATION TECHNOLOGIES**

**AUGUST 24-25, 2020
TASHKENT**

Contents

Welcome address	3
Organizing committee	5
Programm committee	9
Important tips	11
Program overview	12
August 24, 2020 – Keynote talk and Session Day 1	19
August 25, 2020 – Keynote talk and Session Day 2	34

Welcome address

Dear guests, colleagues and conference participants!

Today, in the context of defining the independence and prospects of our country, the role and importance of science is becoming more widespread. At present, the higher educational institutions of the Republic of Uzbekistan serve as a kind of scientific center that trains qualified specialists, scientific and pedagogical personnel for the national economy, in particular, the public education system. In recent years, efforts to modernize educational institutions, improve the quality of education, the use of technology in education, knowledge through science, increasing the attention to the practical significance of scientific discoveries based on information and communication technologies are commendable.

Today's conference on the eve of the Independence of the Republic of Uzbekistan is also symbolic.

The further strengthening of interstate cooperation by scientists is also commendable.

Theoretical and practical solution of the problems raised in the research work of the devotees of science will allow further development. This, in turn, renews the content of education and improves its essence.

In order to improve cooperation and contacts in the field of research, in cooperation with the network institutes of the Academy of Sciences of the Republic of Uzbekistan and Malaysia and other leading universities, lectures by leading scientists on special subjects, young researchers are supervising their dissertations, holding conferences and scientific seminars.

Scientific research and the participation of researchers in international relations and cooperation also contribute to the acquisition of modern scientific achievements and the exchange of experience.

Has modern knowledge, combines universal and national values, feeling responsible for the happiness of our countries upbringing of a free and free-thinking young generation, economic and social, we are scientific organizations on the path of further development of cultural and spiritual development, we wish universities, public organizations, manufacturing enterprises and all our well-meaning friends success in their cooperation and the most honorable and responsible professions in the world.

Mankind is on the verge of overcoming Covid-19 disease with its knowledge and intellect. At the same time, we are winning with our simple, free-spirited habit of forming the national values of the Uzbek and Malay peoples.

The global epidemiological situation is that the conference, which is normally scheduled for May 1-2, 2020, will be held online on August 24-25, 2020 via ZOOM.

I would like to take this opportunity to thank the Ministry of Higher and Secondary Special Education and the Ministry of Innovative Development of the Republic of Uzbekistan.

Now all conferences and meetings are held online. Working in a virtual environment, preparing, processing, and submitting documents required a great deal of experience from participants and members of the organizing committee.

I would like to express my deep gratitude to the members of the organizing committee who worked hard to organize this conference and stood by me in my sad moments.

On behalf of the organizers of the conference, I would like to express my sincere gratitude to the organizers of the conference for their selfless work. 229 people from the Republic of Uzbekistan, 85 - from Malaysia, 7 - from Kazakhstan, 6 -from Indonesia, 6 - from Russia, 3 - from Saudi Arabia, 2 - from Algeria, 1 -from China, 1 -from Iraq 1 - from Jordan, 1 - from Pakistan and 1 - from USA took part in the Uzbek-Malaysian international online conference.

This joint conference will lay the foundation for the establishment of international research relations between the two nations, as well as between educational institutions of Uzbekistan and Malaysia.

In this conference, as in ordinary conferences, let us enjoy the achievements in the field of science together, discuss and debate the results. It is in these debates that the truth emerges, science develops. And the achievements in the field of science are not the achievements of this or that country, but the achievements of humanity. These achievements serve the noble intentions of humanity.

I wish the conference every success.

Computational models and technologies (CMT2020), Welcome to the Uzbek-Malaysian International Online Conference!

***Chairman of the Organizing Committee of
the International Conference***

COMMITTEES

Organizing committee

Patron	Marakhimov A.R.	Professor, DSc, Rector	National University of Uzbekistan (NUUz), Uzbekistan
	Mohd Azraai Kassim	Professor Emeritus, Datuk Ir. Dr. Vice-Chancellor	Universiti Teknologi MARA (UiTM), Malaysia
Advisors	Shirinova R.Kh.	Professor, DSc, Vice-Rector	National University of Uzbekistan (NUUz), Uzbekistan
	Rakhmonov Z.R.	Associate Professor, DSc, Dean of Faculty of Applied Mathematics and Intellectual Technologies	National University of Uzbekistan, Uzbekistan
Scientific Head	Aloev R.D.	Professor, DSc, Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
Chairman	Khudoyberganov M.U.	Associate Professor, Head of Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
Co-Chairman	Haryani Haron	Professor, Ts. Dr. Dean of Faculty Computer and Mathematical Sciences	Universiti Teknologi MARA (UiTM), Malaysia

Deputy Chairman	Ibragimov F.N.	Associate Professor, Head of Department of Information Security	National University of Uzbekistan (NUUz), Uzbekistan
	Ahmad Shukri Abd Aziz	Associate Professor, Head of Department of Mathematics, Faculty Computer and Mathematical Sciences	Universiti Teknologi MARA (UiTM), Malaysia
Secretary I	Alaev R.Kh.	Senior Lecturer, Department of Information Security	National University of Uzbekistan (NUUz), Uzbekistan
Secretary II	Juraev Sh.B.	Lecturer, Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
Treasurer	Primova M.Kh.	Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
	Eshkuvatov Z. K.	Associate Professor, Faculty of Ocean Engineering Technology and Informatics	Universiti Malaysia Terengganu (UMT), Malaysia
Protocol and Registration	Ne'matova D.E.	Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
Website and Publicity	Rakhimov I.S.	Professor, DSc, Faculty of Computer and Mathematical Sciences	Universiti Teknologi MARA (UiTM), Malaysia
	Hayotov A.R.	Professor, DSc, Head of Computational Mathematics Laboratory	V.I.Romanovskiyy Institute of Uzbekistan, Uzbekistan

			Academy of Sciences, Uzbekistan
	Khudoyberganov M.U.	Associate Professor, Head of Department of Computational Mathematics and Information Systems	National University of Uzbekistan (NUUz), Uzbekistan
	Sayfiev J.F.	Associate Professor, Head of Department of Scientific and Innovation Development Commercialization	Tashkent University of Information Technology (TUIT), Uzbekistan
	Alaev R.Kh.	Senior Lecturer, Department of Information Security	National University of Uzbekistan (NUUz), Uzbekistan
	Eshkuvatov Z. K.	Associate Professor, Faculty of Ocean Engineering Technology and Informatics	Universiti Malaysia Terengganu (UMT), Malaysia
Technical and Logistic	Juraev G.U.	Professor, DSc, Department of Information Security	National University of Uzbekistan (NUUz), Uzbekistan
	Muminov B.B.	Associate Professor, DSc, Head of Department of Informatics	Tashkent University of Information Technology (TUIT), Uzbekistan
Programme Book, Abstract and Proceeding	Hayotov A.R.	Professor, DSc, Head of Computational Mathematics Laboratory	V.I.Romanovski Institute of Uzbekistan, Uzbekistan Academy of Sciences, Uzbekistan

	Ruziev R.A.	Associate Professor, Faculty of Physics and Mathematics	Navoi State Pedagogical Institute, Uzbekistan
	Ibragimov A.A.	Associate Professor, Faculty of Physics and Mathematics	Navoi State Pedagogical Institute, Uzbekistan
	Rakhimov I.S.	Professor, DSc, Faculty Computer and Mathematical Sciences	Universiti Teknologi MARA (UiTM), Malaysia
	Daud Mohamad	Professor, Dr, Faculty Computer and Mathematical Sciences	Universiti Teknologi MARA (UiTM), Malaysia
Sponsorship	Aloev R.D.	Professor, DSc, Scientific Head of Fundamental Project OT-Φ4-28 «Construction of adequate computational models for hyperbolic systems»	National University of Uzbekistan (NUUz), Uzbekistan

Programm committee

1. **Ahmad Shukri Abd Aziz** - Universiti Teknologi MARA (UiTM), Malaysia
2. **Alimov Sh.A.** – National University of Uzbekistan, Uzbekistan
3. **Aloev R.D.** - National University of Uzbekistan, Uzbekistan
4. **Aripov M.M.** - National University of Uzbekistan, Uzbekistan
5. **Ayupov Sh.A.** - V.I.Romanovskiy Institute of Mathematics, Uzbekistan
6. **Azamov A.** – V.I.Romanovskiy Institute of Mathematics, Uzbekistan
7. **Akhmedov A.B.** - National University of Uzbekistan, Uzbekistan
8. **Akbarov D.E.** - Fergana branch of Tashkent University of Information Technologies, Uzbekistan
9. **Bakoev M.T.** – University of World Economy and Diplomacy, Uzbekistan
10. **Beshimov R.B.** - National University of Uzbekistan, Uzbekistan
11. **Chetverushkin B.N.** - Keldysh Institute of Applied Mathematics, Russia
12. **Daud Mohamad** - Universiti Teknologi MARA (UiTM), Malaysia
13. **Dimov I.** - Institute of Information and Communication Technologies, Bulgaria
14. **Eshkuvatov Z.K.** - Universiti Malaysia Terengganu (UMT), Malaysia
15. **Elov B.B.** - Tashkent State University of Uzbek Language and Literature, Uzbekistan
16. **Haryani Haron** - Universiti Teknologi MARA (UiTM), Malaysia
17. **Hayotov A.R.** - V.I.Romanovskiy Institute of Mathematics, Uzbekistan
18. **Ibragimov F.N.** - National University of Uzbekistan, Uzbekistan
19. **Ilyani Binti Abdulloh** - Universiti Malaysia Terengganu, Malaysia
20. **Juraev G.U.** - National University of Uzbekistan, Uzbekistan
21. **Kabulov A.V.** - National University of Uzbekistan, Uzbekistan
22. **Kasimov N.H.** - National University of Uzbekistan, Uzbekistan
23. **Kholjigitov A.** – Samarkand Branch of Tashkent University of Information Technologies, Uzbekistan
24. **Khudoyberganov M.U.** - National University of Uzbekistan, Uzbekistan
25. **Madrahimov Sh.F.** - National University of Uzbekistan, Uzbekistan

26. **Mascagni M.** – Florida State University, USA
27. **Mohd Azraai Kassim** - Universiti Teknologi MARA (UiTM), Malaysia
28. **Muminov B.** – Tashkent University of Information Technologies, Uzbekistan
29. **Nik Mohd Asri Nik Long** - Universiti Putra Malaysi, Malaysia
30. **Omirov B.A.** - National University of Uzbekistan, Uzbekistan
31. **Pulatov A.** - National University of Uzbekistan, Uzbekistan
32. **Ravshanov N.** - Tashkent University of Information Technologies, Uzbekistan
33. **Rasulov A.S.** - University of World Economy and Diplomacy, Uzbekistan
34. **Raimova G.A.** - V.I.Romanovskiy Institute of Mathematics, Uzbekistan
35. **Rakhmonov Z.** - National University of Uzbekistan, Uzbekistan
36. **Rakhimov I.S.** - Universiti Teknologi MARA (UiTM), Malaysia
37. **Rozikov U.A.** - V.I.Romanovskiy Institute of Mathematics, Uzbekistan
38. **Ruziev R.A.** - Navoi State Pedagogical Institute, Uzbekistan
39. **Sadullaev A.** - National University of Uzbekistan, Uzbekistan
40. **Shadimetov Kh.M.** – Tashkent Institute of Railway Engineers, Uzbekistan
41. **Sharipov O.Sh.** - National University of Uzbekistan, Uzbekistan
42. **Yakubovskiy M.B.** - Keldysh Institute of Applied Mathematics, Russia
43. **Zikirov O.S.** - National University of Uzbekistan, Uzbekistan
44. **Roslan Hasni Bin Abdullah** - Universiti Malaysia Terengganu, Malaysia

Important tips

GMT + 5		Audio and Video		Wire Speed
• All formal session arranged by Tashkent Time. • Please transfer into your correct local time, and attend on time		• Turn on your Audio & Video. • Use headset to enhance the audio effect and avoid the speaker echo or howling. • Stay in a quiet place without noise. • Join TEST DAY on August 23.		• With high-speed Wi-Fi or Wired network. • Equipment with enough battery or connected with charger.
ZOOM		Rename		Presentation
• Join with Room ID on ZOOM APP or webiste https://zoom.us/ • Learn how to use ZOOM via: http://icmae.org/zoom.html • or https://support.zoom.us/hc/en-us/articles/206618765-Zoom-Video-Tutorials		• For authors, please rename with Paper ID+ Name, before you join the room. • • For Keynote, please rename with KN+ Name.		• Send us a 10 Mins Video as back-up. • Stay online at least during KN talk time and your own session for Q&A. • English and Russian can be used. • Certificate & receipt will be emailed after event.

Program overview

UTC + 5

August 23 – Test Day

August 24 – Keynote talk 1 and Sessions

August 25 – Keynote talk 2 and Sessions

Main Sessions of the Conference

Session 1. CM- Computational Mathematics

Session 2. CT- Computing Technology

Session 3. ISET- Information Security and Engineering Technology

Session 4. CATF - Computational Algebra and Theory of Functions

Session 5. AMS - Applied Mathematics and Statistics

Session 6. MM - Mathematical Modeling

Please, note that in the conference the following ZOOM ID addresses for ROOM's A, B, C, D, E and F will be used.

ROOM A ZOOM ID: 628 951 4129 (<https://us02web.zoom.us/j/6289514129>)

ROOM B ZOOM ID: 927 290 9822 (<https://us02web.zoom.us/j/9272909822>)

ROOM C ZOOM ID: 719 306 1552 (<https://us02web.zoom.us/j/7193061552>)

ROOM D ZOOM ID: 650 646 3518 (<https://us02web.zoom.us/j/6506463518>)

ROOM E ZOOM ID: 844 393 2196 (<https://us02web.zoom.us/j/8443932196>)

ROOM F ZOOM ID: 258 718 8786 (<https://us02web.zoom.us/j/2587188786>)

August 23, 2020 - Plan of Test Day

UTC + 5

Time	<u>ROOM A</u> <u>ID: 628 951 4129</u>	<u>ROOM B</u> <u>ID: 927 290 9822</u>	<u>ROOM C</u> <u>ID: 719 306 1552</u>	<u>ROOM D</u> <u>ID: 650 646 3518</u>	<u>ROOM E</u> <u>ID: 844 393 2196</u>	<u>ROOM F</u> <u>ID: 258 718 8786</u>
10.00-10.30	Keynote Speakers					
10.30 - 11.00	Break					
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
11.00-12.30	cmt2020-cm-27, cmt2020-cm-16, cmt2020-cm-17, cmt2020-cm-22	cmt2020-ct-2, cmt2020-ct-5, cmt2020-ct-6, cmt2020-ct-8	cmt2020-is-2, cmt2020-is-3, cmt2020-is-7, cmt2020-is-9	cmt2020-ca-2, cmt2020-tf-4, cmt2020-ca-3, cmt2020-13-10	cmt2020-am-3, cmt2020-fd-1, cmt2020-as-2, cmt2020-am-8	cmt2020-mm-17, cmt2020-mm-26, cmt2020-mm-25, cmt2020-13-2
	cmt2020-cm-28, cmt2020-cm-39, cmt2020-cm-29, cmt2020-cm-8	cmt2020-ct-10, cmt2020-ct-7, cmt2020-ct-1, cmt2020-13-18	cmt2020-is-8, cmt2020-is-5, cmt2020-is-1, cmt2020-is-10	cmt2020-tf-2, cmt2020-fa-1, cmt2020-fa-2, cmt2020-tf-5	cmt2020-ia-1, cmt2020-am-19, cmt2020-am-24, cmt2020-am-10	cmt2020-mm-10, cmt2020-mm-28, cmt2020-mm-13, cmt2020-13-9
	cmt2020-cm-13, cmt2020-cm-30, cmt2020-cm-6, cmt2020-cm-10	cmt2020-ct-4, cmt2020-ct-3, cmt2020-ct-9, cmt2020-ct-11	cmt2020-is-11, cmt2020-is-6, cmt2020-is-4, cmt2020-et-1	cmt2020-tf-12, cmt2020-ca-6, cmt2020-ca-1, cmt2020-fa-4	cmt2020-am-18, cmt2020-fd-4, cmt2020-am-25, cmt2020-am-20	cmt2020-mm-1, cmt2020-mm-29, cmt2020-mm-23, cmt2020-mm-2
12.30 - 14.00	Break					
	Session 1	Session 2+ Session 1	Session 6	Session 4	Session 5	Session 6
14.30 - 15.00	cmt2020-cm-15, cmt2020-cm-20,	cmt2020-cm-35, cmt2020-cm-11,	cmt2020-mm-14, cmt2020-mm-3,	cmt2020-ca-4, cmt2020-tf-6,	cmt2020-am-12, cmt2020-am-5,	cmt2020-mm-11, cmt2020-13-11,

	cmt2020-cm-26, cmt2020-cm-21	cmt2020-cm-18, cmt2020-cm-32,	cmt2020-mm-30, cmt2020-13-17	cmt2020-tf-7, cmt2020-ca-5	cmt2020-am-2, cmt2020-fd-2	cmt2020-mm-24, cmt2020-mm-5
	cmt2020-cm-31, cmt2020-cm-14, cmt2020-cm-37, cmt2020-cm-1	cmt2020-cm-36, cmt2020-cm-5, cmt2020-cm-9 cmt2020-cm-25	cmt2020-mm-31	cmt2020-13-8, cmt2020-ca-7, cmt2020-tf-3, cmt2020-fa-3	cmt2020-am-1, cmt2020-am-9, cmt2020-as-3, cmt2020-am-16	cmt2020-mm-7, cmt2020-13-14, cmt2020-mm-27, cmt2020-mm-8
15.00- 15.30	Break					
	Session 1	Session 5	Session 6	Session 4	Session 5	Session 6
15.30- 17.00	cmt2020-cm-2, cmt2020-cm-4 cmt2020-cm-40, cmt2020-cm-23	cmt2020-as-5, cmt2020-am-22, cmt2020-am-11, cmt2020-am-7	cmt2020-mm-22, cmt2020-mm-16 cmt2020-13-15, cmt2020-13-6	cmt2020-tf-1, cmt2020-tf-10 cmt2020-tf-11, cmt2020-tf-9	cmt2020-as-1, cmt2020-am-6, cmt2020-am-4, cmt2020-as-6	cmt2020-mm-12, cmt2020-mm-6, cmt2020-13-16, cmt2020-mm-20
	cmt2020-cm-24, cmt2020-cm-38, cmt2020-cm-34, cmt2020-cm-33	cmt2020-ia-2, cmt2020-am-26, cmt2020-13-1	cmt2020-mm-4, cmt2020-13-21, cmt2020-13-7, cmt2020-13-3		cmt2020-am-15, cmt2020-am-21, cmt2020-am-23, cmt2020-as-4	cmt2020-mm-15, cmt2020-13-5, cmt2020-mm-21, cmt2020-mm-19
	cmt2020-cm-12, cmt2020-cm-19, cmt2020-cm-7, cmt2020-cm-3				cmt2020-am-13, cmt2020-am-14, cmt2020-fd-5, cmt2020-am-17	cmt2020-mm-18, cmt2020-13-4, cmt2020-13-19, cmt2020-mm-9

Time	ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822					
09.00-09.10	Opening Remark	Prof., Dr. Sh.A.Ayupov, Director of V.I.Romanovskiy Institute of Mathematics, Uzbekistan				
09.10-09.20	Welcome Talks	Prof., Dr. A.Marakhimov, Rector of National University of Uzbekistan, Uzbekistan				
09.20-09.30		Prof., Dr. Mohd Azraai Kassim, Vice-Chancellor of Universiti Teknologi MARA, Malaysia				
09.30-09.40		Ass. Prof., Dr. M.Khudoyberganov, Chairman, National University of Uzbekistan, Uzbekistan				
09.40-09.50		Prof., Dr. Haryani Haron, Co-Chairman, University Teknologi MARA, Malaysia				
09.50-10.20	Keynote Talk 1	Prof., Dr. Daud Mohamad, Universiti Teknologi MARA, Malaysia, “Fuzzy Decision Making with Missing Information ”				
10.20-11.00	Break					
	ROOM A ID: 628 951 4129	ROOM B ID: 927 290 9822	ROOM C ID: 719 306 1552	ROOM D ID: 650 646 3518	ROOM E ID: 844 393 2196	ROOM F ID: 258 718 8786
	Session 1	Session 2	Session 3	Session 4	Session 5	Session 6
11.00-12.05	cmt2020-cm-27, cmt2020-cm-16, cmt2020-cm-17, cmt2020-cm-22	cmt2020-ct-2, cmt2020-ct-5, cmt2020-ct-6, cmt2020-ct-8	cmt2020-is-2, cmt2020-is-3, cmt2020-is-7, cmt2020-is-9	cmt2020-ca-2, cmt2020-tf-4, cmt2020-ca-3, cmt2020-13-10	cmt2020-am-3, cmt2020-fd-1, cmt2020-as-2, cmt2020-am-8	cmt2020-mm-17, cmt2020-mm-26, Invited cmt2020-mm-25,
12.05-14.00	Break					
14.00-15.05	cmt2020-cm-28, cmt2020-cm-39, Invited cmt2020-cm-29, cmt2020-cm-8	cmt2020-ct-10, cmt2020-ct-7, cmt2020-ct-1, cmt2020-13-18	cmt2020-is-8, cmt2020-is-5, cmt2020-is-1, cmt2020-is-10	cmt2020-tf-2, cmt2020-fa-1, cmt2020-fa-2, cmt2020-tf-5	cmt2020-ia-1, cmt2020-am-19, cmt2020-am-24, cmt2020-am-10	cmt2020-mm-10, cmt2020-mm-28, cmt2020-mm-13, cmt2020-13-2
15.05-15.15	Break					

15.15-16.15	cmt2020-cm-13, cmt2020-cm-30, cmt2020-cm-6, cmt2020-cm-10	cmt2020-ct-4, cmt2020-ct-3, cmt2020-ct-9, cmt2020-ct-11	cmt2020-is-11, cmt2020-is-6, cmt2020-is-4, cmt2020-et-1	cmt2020-tf-12, Invited cmt2020-ca-6, cmt2020-ca-1, cmt2020-fa-4	cmt2020-am-18, cmt2020-fd-4, cmt2020-am-25, cmt2020-am-20	cmt2020-mm-1, cmt2020-mm-29, cmt2020-mm-23, cmt2020-mm-2
16.15-16.30	Break					
16.30-17.35	cmt2020-cm-15, cmt2020-cm-20, cmt2020-cm-26, cmt2020-cm-21, Invited			cmt2020-ca-4, cmt2020-tf-6, cmt2020-tf-7, cmt2020-ca-5	cmt2020-am-12, cmt2020-am-5, cmt2020-am-2, cmt2020-fd-2	cmt2020-mm-11, cmt2020-13-11, cmt2020-mm-24, cmt2020-mm-5, Invited

Time	ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822					
09.00- 09.10	Opening Remark	Prof., Dr. M.M.Aripov, National University of Uzbekistan, Uzbekistan				
09.10- 09.40	Keynote Talk 2	Prof., Dr. A.S.Rasulov, University of World Economy and Diplomacy, Uzbekistan “Monte Carlo Method for pricing weather derivatives”				
09.40-11.00	Break					
	ROOM A ID: 628 951 4129	ROOM B ID: 927 290 9822	ROOM C ID: 719 306 1552	ROOM D ID: 650 646 3518	ROOM E ID: 844 393 2196	ROOM F ID: 258 718 8786
	Session 1	Session 1	Session 6	Session 4	Session 5	Session 6
11.00-12.00	cmt2020-cm-31, cmt2020-cm-14, cmt2020-cm-37, cmt2020-cm-1	cmt2020-cm-35, cmt2020-cm-11, cmt2020-cm-18, cmt2020-cm-9	cmt2020-mm-3, cmt2020-mm-30, cmt2020-13-17, cmt2020-mm-22	cmt2020-13-8, cmt2020-ca-7, cmt2020-tf-3, cmt2020-fa-3	cmt2020-am-1, cmt2020-am-9, cmt2020-as-3, cmt2020-am-16	cmt2020-mm-7, cmt2020-13-14, cmt2020-mm-27, cmt2020-mm-8
12.00-14.00	Break					
14.00-15.10	cmt2020-cm-2, Invited cmt2020-cm-4 cmt2020-cm-40, Invited cmt2020-cm-23	cmt2020-cm-32, cmt2020-cm-36, cmt2020-cm-5, cmt2020-cm-25	cmt2020-mm-16 cmt2020-13-15, cmt2020-13-6, cmt2020-mm-4	cmt2020-tf-1, cmt2020-tf-10 cmt2020-tf-11, cmt2020-tf-9	cmt2020-as-1, cmt2020-am-6, cmt2020-am-4, cmt2020-as-6	cmt2020-mm-12, cmt2020-mm-6, cmt2020-13-16, cmt2020-mm-20
15.10-15.15	Break					
		Session 5				
15.15-16.20	cmt2020-cm-41, Invited cmt2020-cm-38,	cmt2020-as-5, cmt2020-am-22, cmt2020-am-11,	cmt2020-13-21, cmt2020-13-7, cmt2020-13-3,		cmt2020-am-15, cmt2020-am-21, Invited	cmt2020-mm-15, cmt2020-13-5, cmt2020-mm-21,

	cmt2020-cm-34, cmt2020-cm-33	cmt2020-am-7	cmt2020-mm-31		cmt2020-am-23, cmt2020-as-4	cmt2020-mm-19
16.20-16.30	Break					
16.30-17.45	cmt2020-cm-12, cmt2020-cm-19, cmt2020-cm-7, cmt2020-cm-3, cmt2020-cm-24	cmt2020-ia-2, cmt2020-am-26, cmt2020-13-1			cmt2020-am-13, cmt2020-am-14, cmt2020-fd-5, cmt2020-am-17	cmt2020-mm-18, cmt2020-13-4, cmt2020-13-19, cmt2020-mm-9

August 24, 2020 – Keynote talk and Session Day 1

UTC + 5

Time	ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822	
09.00- 09.10	Opening Remark	Prof., Dr. Sh.A.Ayupov, Director of V.I.Romanovskiy Institute of Mathematics, Uzbekistan
09.10- 09.20	Welcome Talks	Prof., Dr. A.Marakhimov, Rector of National University of Uzbekistan, Uzbekistan
09.20- 09.30		Prof., Dr. Mohd Azraai Kassim, Vice-Chancellor of Universiti Teknologi MARA, Malaysia
09.30- 09.40		Ass. Prof., Dr. M.Khudoyberganov, Chairman, National University of Uzbekistan, Uzbekistan
09.40- 09.50		Prof., Dr. Haryani Haron, Co-Chairman, University Teknologi MARA, Malaysia
Keynote Talk 1 ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822 09.50-10.20		Prof., Dr. Daud Mohamad Universiti Teknologi MARA, Malaysia Title: <i>Fuzzy Decision Making with Missing Information</i> 
Abstract. Since its introduction by Zadeh in 1965, fuzzy set theory has been an important tool to solve decision making problems with ambiguity and subjectivity. Missing information in the evaluation process of fuzzy decision making has become a critical issue as it may lead to an incorrect or biased decision taken by an organization. The		An imputation approach is used where the missing information is replaced by some plausible and reasonable values. A step by step approach will be given to illustrate the process of approximating the missing numerical information. A case study of a supply chain problem with some missing information is presented and solved using the proposed approach. Bio: Daud Mohamad is a Professor in Mathematics at the Universiti Teknologi MARA, Malaysia where he has joined the institution since 1986. He obtained his secondary education at the MARA Junior Science College, Kuantan before pursuing his Bachelor Degree in Mathematics at the University of Tasmania, Australia in 1986. He received his Master degree in Mathematics from the Universiti Kebangsaan Malaysia in 1993 and further his study to PhD level at the University of

ambiguity in the evaluation was initially escalated by the different background of the decision makers, which will lead to diverse perception in the evaluation process. This is further aggravated by the occurrence of missing information which may be among others due to inefficiency of handling the information or may also due to the negligence of the decision makers themselves. This talk will discuss on how to handle this issue focusing on a well-known pairwise decision making method, fuzzy analytic hierarchy process (FAHP) by using another pairwise method namely fuzzy DEMATEL.		Swansea, Wales, United Kingdom in 1995 and completed it in 1999 specializing in the area of geometric function theory. He is the Vice President of the Malaysian Mathematical Sciences Society since 2015 and a member of the American Mathematical Society since 2008. His current research interest is in the area of fuzzy mathematics and fuzzy logic, in particular in the area of fuzzy decision making. He has published and presented more than 100 papers related to fuzzy mathematics and geometric function theory
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Session 1
Computational Mathematics

11:00-17:35

August 24, 2020, THR (UTC+5)

Room A ID: 628 951 4129

Time	Paper ID	Chair: Prof., Dr. R.D.Aloev National University of Uzbekistan, Uzbekistan
11.00-11.15	cmt2020-cm-27	Hamidulloxon Axralov, Musaxan Qazibekov, Zainidin Eshkuvatov, Zahriddin Muminov Tashkent State Technical University; Djizakh state pedagogical institute; Universiti Malaysia Terengganu, Malaysia; National University of Uzbekistan, Uzbekistan <i>Solving system of nonlinear integral equations by quasi-Newton methods</i>
11.15-11.30	cmt2020-cm-16	Odiljon Akhmedov, Asliddin Tilavov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Application of DN-tracking method to construct a "Bendixon's bag"</i>
11.30-11.45	cmt2020-cm-17	Odiljon Akhmedov, Sardorbek Dustnazarov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>The accuracy of Runge-Kutta methods for quadratic dynamical systems</i>
11.45-12.00	cmt2020-cm-22	Dilshod Akhmedov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Optimal quadrature formulas with derivative for Hadamard type hypersingular integrals</i>
12.00-14.00		Break
Time	Paper ID	Chair: Dr. Abu Bakar Sumarni Universiti Teknologi MARA, Malaysia
14.00-14.15	cmt2020-cm-28	Samandar Babaev Bukhara State University, Uzbekistan <i>Optimal approximation formulas for computing of Fourier integrals in a Hilbert space</i>
14.15-14.35	cmt2020-cm-39 Invited Talk	Abu Bakar Sumarni Universiti Teknologi MARA, Malaysia <i>Graph Theory Applications: From Modelling Dynamical Complex System to Multi-Attributes Decision Making Tool</i>
14.35-14.50	cmt2020-cm-29	B.I.Bozarov V.I.Romanovskiy Institute of Mathematics, Uzbekistan

		<i>Optimal quadrature formulas with trigonometric weight functions in the Sobolev space</i>
14.50-15.05	cmt2020-cm-8	Khairul Anwar Nur Hadirah, Saian Rizauddin, Abu Bakar Sumarni UiTM, Malaysia <i>An enhance Ant Colony Optimization with Gini Index for predicting Type 2 Diabetes</i>
15.05-15.15		Break
Time	Paper ID	Chair: Ass. Prof., Dr. Z.K.Eshkuvatov University Malaysia Terengganu, Malaysia
15.15-15.30	cmt2020-cm-13	Abduvali Khaldjigitov, Umidjon Djumayozov, Sherzod Ibodullayev Samarkand branch of Tashkent University of Information Technology, Uzbekistan <i>Effective finite-difference method for elastoplastic boundary value problems</i>
15.30-15.45	cmt2020-cm-30	M.U.Khudoyberganov, D.E.Nematova, Sh.B.Juraev National University of Uzbekistan, Uzbekistan <i>Application of stable difference splitting schemes for solving a mixed problem for hyperbolic systems of equations</i>
15.45-16.00	cmt2020-cm-6	Nur Azliana Azlin Munir, Normi Abdul Hadi, Mohd Agos Salim Nasir Universiti Teknologi MARA, Malaysia <i>Constrained for G^1 cubic trigonometric spline curve interpolation</i>
16.00-16.15	cmt2020-cm-10	Zainidin Eshkuvatov, Zaid Laadjal, Shahrina Ismail University Malaysia Terengganu, Malaysia <i>Numerical treatment of nonlinear mixed Volterra-Fredholm integro-differential equations of fractional order</i>
16.15-16.30		Break
Time	Paper ID	Chair: Prof., Dr. A.R.Hayotov V.I.Romanovskiy Institute of Mathematics, Uzbekistan
16.30-16.45	cmt2020-cm-15	Z.K.Eshkuvatov, H.X.Mamatova, Sh.Ismail, Ilyani Abdullah, R.D.Aloev University Malaysia Terengganu, Malaysia <i>Numerical approach for nonlinear system of Fredholm-Volterra Integral equations</i>
16.45-17.00	cmt2020-cm-20	Indranil Ghosh, M.S.H. Chowdhury, Suazlan Bin Mt Aznam, Shukranul Mawa International Islamic University Malaysia, Malaysia <i>New Iterative Method for solving chemistry problem</i>
17.00-17.15	cmt2020-cm-26	Oybek Qurbonov, Zainidin Eshkuvatov, Zahriddin Muminov Tashkent State Technical University, Uzbekistan; Universiti Malaysia Terengganu, Malaysia; National University of Uzbekistan, Uzbekistan

		<i>Approximate solution for general nth-order integro-differential equations using improved HPM</i>
17.15-17.30	cmt2020-cm-21	Abdujabar Rasulov, Matyokub Baqoev, Muhamadrasul Rahmatov University of World Economy and Diplomacy, Tashkent, Uzbekistan <i>Parallel algorithms and quasi random sequences for calculation multidimensional integrals</i>

Session 2

Computing Technology

11:00-16:45

August 24, 2020, THR (UTC+5)

Room B ID: 927 290 9822

Time	Paper ID	Chair: Prof., Dr. M.M.Aripov National University of Uzbekistan, Uzbekistan
11.00-11.15	cmt2020-ct-2	Fatima Adilova, Rifkat Davronov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>A Simple Computational Technology for Developing Regression Models in High Dimensional Small Sample Cases for Drug Design</i>
11.15-11.30	cmt2020-ct-5	Mersaid Aripov, Abdisait Norov, Timur Jorabekov National University of Uzbekistan; Karshi State University; Karakalpak State University, Uzbekistan <i>Mathematical foundations of automatically syllabing of Karakalpak words</i>
11.30-11.45	cmt2020-ct-6	Sh.F.Madrakhimov, K.T.Makharov, M.Y.Lolaev National University of Uzbekistan, Uzbekistan <i>Data preprocessing on input</i>
11.45-12.00	cmt2020-ct-8	B.B.Muminov, U.B.Bekmurodov Tashkent University of Information Technologies, Uzbekistan <i>Introduction of search based models in automatic Machine systems</i>
12.00-14.00		Break
Time	Paper ID	Chair: Dr. Anvar Narzullaev Universiti Sains Islam Malaysia, Malaysia
14.00-14.15	cmt2020-ct-10	Anvar Narzullaev, Zahriddin Muminov, Mavlutdin Narzullaev Universiti Sains Islam Malaysia; National University of Uzbekistan, Uzbekistan <i>Wi-Fi based Student Attendance Recording System using Machine Learning Classification Algorithm</i>

14.15-14.30	cmt2020-ct-7	A.O'.Qahhorov, G.O'.Rangova National University of Uzbekistan, Uzbekistan <i>O'zMU sirtqi ta'lim axborot tizimida o'quv kurslarini yaratish</i>
14.30-14.45	cmt2020-ct-1	Syamila Hayatun <i>Classification of Paddy Leaf Disease using Cubic Support Vector Machine (SVM)</i>
14.45-15.00	cmt2020-13-18	Iskandar Maratovich Ajmuxamedov, Bexzod Abdugaffarovich Erqulov Astrakhan State University, Russia; Navoi State Pedagogical Institute, Uzbekistan <i>Методика определения качества образовательных информационных систем</i>
15.00-15.15	Break	
Time	Paper ID	Chair: Dr. Zahridin Muminov National University of Uzbekistan, Uzbekistan
15.15-15.30	cmt2020-ct-4	O.Kushmatov, Sh.Umarov Fergana branch of Tashkent University of Information Technologies, Uzbekistan <i>Некоторые практические аспекты перехода вуза к дистанционному обучению на примере Ферганского филиала ТУИТ во время пандемия covid-19</i>
15.30-15.45	cmt2020-ct-3	Shuxrat Abduganievich Toirov, Ulugbek Ziyadullaevich Narmuradov Samarkand branch of Tashkent University of Information Technologies, Uzbekistan <i>Процессы применения квантового генетического алгоритма V оптимизации функций</i>
15.45-16.00	cmt2020-ct-9	S.S.Khasanov Namangan State University, Uzbekistan <i>Облачное вычисление в медицинских информационных системах</i>
16.00-16.15	cmt2020-ct-11	M.Priimova National University of Uzbekistan, Uzbekistan <i>Технология Data Mining в LMS</i>

Session 3

Information Security and
Engineering Technology

11:00-16:15

August 24, 2020, THR (UTC+5)

Room C ID: 719 306 1552

Time	Paper ID	Chair: Prof., Dr. D.E.Akbarov Kokand Pedagogical Institute, Uzbekistan
11.00-11.15	cmt2020-is-2	D.E.Akbarov, Sh.A.Umarov Kokand Pedagogical Institute; Fergana branch of the Tashkent University of Information Technologies, Uzbekistan <i>About the chi-square criterion application for the decryption problem automation process</i>
11.15-11.30	cmt2020-is-3	Ruhillo Alae National University of Uzbekistan, Uzbekistan <i>Applying the O'zDSt 1106: 2009 hash algorithm and the O'zDSt 1092: 2009 signature algorithm in Active Directory Certificate Services</i>
11.30-11.45	cmt2020-is-7	Alisher Ikramov National University of Uzbekistan, Uzbekistan <i>Complexity of Testing Cryptographic Functions on Linear and Cyclic Input Errors</i>
11.45-12.00	cmt2020-is-9	G.U.Juraev, M.H.Khakimov, A.X.Djabborov National University of Uzbekistan, Samarkand State University, Uzbekistan <i>Creating a database for state structures</i>
12.00-14.00		Break
Time	Paper ID	Chair: Prof., Dr. G.U.Juraev National University of Uzbekistan, Uzbekistan
14.00-14.15	cmt2020-is-8	G.U.Juraev, O.N.Bozorov National University of Uzbekistan, Uzbekistan <i>Problems of ensuring the confidentiality of data objects of informatization</i>
14.15-14.30	cmt2020-is-5	Mirkhon Nurullaev <i>Algebraic cryptanalysis of some symmetric encryption algorithms</i>
14.30-14.45	cmt2020-is-1	N.R. Zaynalov, U.Kh. Narzullaev, A.N. Muhamadiev, D. Qilichev Samarkand branch of the Tashkent University of Information Technologies, Uzbekistan

		About using unicode to hide information in a text document
14.45-15.00	cmt2020-is-10	T.R.Abdullaev, G.U.Juraev Minoboroni RUz, National University of Uzbekistan, Uzbekistan <i>Разработка методики генерации таблиц замены двоичной и троичной систем счислений</i>
15.00-15.15		Break
Time	Paper ID	Chair: Ass. Prof., Dr. M.U.Khudoyberganov National University of Uzbekistan, Uzbekistan
15.15-15.30	cmt2020-is-11	T.R.Abdullaev, G.U.Juraev Minoboroni RUz, National University of Uzbekistan, Uzbekistan <i>Выбор оптимального типа функции гаммирования для симметрических алгоритмов шифрования</i>
15.30-15.45	cmt2020-is-6	E.R.Navruzov, A.A.Karimov National University of Uzbekistan, Uzbekistan <i>О минимизации ресурсов для обнаружения угроз от вредоносного программного обеспечения</i>
15.45-16.00	cmt2020-is-4	Shoirakhon Umarova University of World Economy and Diplomacy, Uzbekistan <i>Информационная безопасность в системе управления обучением MOODLE</i>
16.00-16.15	cmt2020-et-1	Abdugafur Khotamov, Nodir Eshnazarov Tashkent University of Information Tecnologies, Uzbekistan; <i>Мониторинг радиочастотного спектра на основе комплексной антенной системы</i>

Session 4

Computational Algebra and Theory of Functions

11:00-17:30

August 24, 2020, THR (UTC+5)

Room D ID: 650 646 3518

Time	Paper ID	Chair: Ass. Prof., Dr. Hasni Roslan <i>Universiti Malaysia Terengganu, Malaysia</i>
11.00-11.15	cmt2020-ca-2	K.K.Abdurasulov, G.O.Solijanova Institute of Mathematics Uzbekistan; National University of Uzbekistan, Uzbekistan <i>The description of pro-solvable Lie algebras with maximal pro-nilpotent ideals m_0 and m_2</i>
11.15-11.30	cmt2020-tf-4	R.N.Ganikhodzhaev, Sh.J.Seytov National University of Uzbekistan, Uzbekistan <i>An analytical description of the sets of Mandelbrot and Julia for some multi-dimensional cubic mappings</i>
11.30-11.45	cmt2020-ca-3	Hasni Roslan, Wan Zuki Wan Nor Nadia Nabila, Du Zhibin Universiti Malaysia Terengganu, Malaysia; Zhaoqing University, Zhaoqing, Guangdong, China, <i>On the difference between atom-bond connectivity index and Randic index of trees</i>
11.45-12.00	cmt2020-13-10	Muminov Zahriddin, Shukhrat Alladustov, Shukhrat Lakaev National University of Uzbekistan, Uzbekistan; Tashkent Institute of Irrigation, Uzbekistan <i>On Spectrum and Threshold analysis for Discrete Schrodinger operator</i>
12.00-14.00		Break
Time	Paper ID	Chair: Prof., Dr. Daud Mohamad <i>Universiti Teknologi MARA, Malaysia</i>
14.00-14.15	cmt2020-tf-2	Narzillaev Nurbek National university of Uzbekistan, Uzbekistan <i>Weighted regularity notions in $\mathbb{C}^n$</i>
14.15-14.30	cmt2020-fa-1	Nazirah Ramli, Nik Muhammad Farhan Hakim Nik Badrul Alam, Daud Mohamad Universiti Teknologi MARA, Malaysia <i>Hybrid Fuzzy Time Series Forecasting Model based on Intuitionistic Fuzzy Set</i>
14.30-14.45	cmt2020-fa-2	Neendha Cheah Soo Thape, Nazihah Ahmad Universiti Utara Malaysia, Malaysia <i>Solving Bipolar Fully Fuzzy Sylvester Matrix Equation</i>

14.45-15.00	cmt2020-tf-5	Nik Muhammad Farhan Hakim Nik Badrul Alam, Ajab Bai Akbarally Universiti Teknologi MARA, Malaysia <i>Hermite-Hadamard Type Inequalities for Composite m-Convex Functions</i>
15.00-15.15	Break	
Time	Paper ID	Chair: Ass. Prof., Dr. Ajab Bai Akbarally <i>Universiti Teknologi MARA, Malaysia</i>
15.15-15.35	cmt2020-tf-12, Invited Talk	Ajab Bai Akbarally Universiti Teknologi MARA, Malaysia <i>Applications of Operators to Classes of Analytic Functions</i>
15.35-15.50	cmt2020-ca-6	Utkir Rozikov, Anvar Imomkulov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>On absolute nilpotent elements of approximation of commutative algebra with evolution algebras</i>
15.50-16.05	cmt2020-ca-1	Shahrina Ismail, Kamel Ariffin Mohd Atan Universiti Sains Islam Malaysia, Malaysia; Universiti Putra Malaysia, Malaysia <i>On the Solutions of the Diophantine Equation $x^4 + y^4 = 2^k z^3$ for $k > 1$</i>
16.05-16.20	cmt2020-fa-4	Sobirjon Shoyimardonov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>A non-linear discrete-time dynamical system of planktons</i>
16.20-16.30	Break	
Time	Paper ID	Chair: Prof., Dr. I.Rakhimov <i>Universiti Teknologi MARA, Malaysia</i>
16.30-16.45	cmt2020-ca-4	N.A.Taylanov, S.Kh.Urinov Jizzakh State Pedagogical Institute, Samarkand Branch of TUIT, Uzbekistan <i>The magnetic susceptibility at the transition point of bose condensation</i>
16.45-17.00	cmt2020-tf-6	J.I.Abdullaev, A.M.Toshturdiev Samarkand State University, Uzbekistan <i>Связанные состояния системы двух фермионов в инвариантном подпространстве</i>
17.00-17.15	cmt2020-tf-7	J.I.Abdullaev, Y.S.Shotemirov, Sh.Kh.Ergashova Samarkand State University, Uzbekistan; Navoi State Pedagogical Institute, Uzbekistan <i>Нахождение значений энергии в связанном состоянии систем двух бозонов</i>
17.15-17.30	cmt2020-ca-5	O.Kh.Gulomov, S.Yu.Shodiev Karshi State University, Uzbekistan, <i>Selochislennye tochi i ix kolichestvo na sovershennykh ellipsoidax</i>

Session 5

Applied Mathematics and
Statistics

11:00-17:30

August 24, 2020, THR (UTC+5)

Room E ID: 844 393 2196

Time	Paper ID	Chair: Ass. Prof., Dr. Zabidin Salleh Universiti Malaysia Terengganu, Malaysia
11.00-11.15	cmt2020-am-3	Ahmad Salehin Nurul Fadhila, Kamis Nor Hanimah Universiti Teknologi MARA, Malaysia. <i>Team Formation Based on Expertise using Preference Similarity Network Clustering Consensus Group Decision Making Model</i>
11.15-11.30	cmt2020-fd-1	Ali Rehman, Zabidin Salleh, Taza Gul Universiti Malaysia Terengganu, Malaysia; City University of Science and Information Technology, Peshawar, Pakistan <i>The Effect of Marangoni Convection on Cu-Al₂O₃-Water Hybrid Nanofluid over a Stretching Surface with Convection Boundary Condition</i>
11.30-11.45	cmt2020-as-2	Aliah Natasha Affindi, Sanizah Ahmad Universiti Teknologi MARA, Malaysia <i>A Robust Ridge Regression Approach for the Combined Multicollinearity- Outlier Problem</i>
11.45-12.00	cmt2020-am-8	Alias Idham Arif, Salleh Yusra, Gafurjan Ibragimov Universiti Putra Malaysia, Malaysia. <i>An evasion differential game of one evader against two pursuers</i>
12.00-14.00		Break
Time	Paper ID	Chair: Ass. Prof., Dr. Ilyani Abdulloh University Malaysia Terengganu, Malaysia
14.00-14.15	cmt2020-ia-1	Abdurakhmon Aliyev V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Central limit theorem for circle maps with a break and external noise</i>
14.15-14.30	cmt2020-am-19	Amryeen Rasha, Harun Fatimah Noor, Al-Smadi Mohammed, Alias Azwani Universiti Malaysia Terengganu, Malaysia, Al-Balqa Applied University, Jordan,

		<i>An efficient analytical approach for nonlinear time-fractional Swift-Hohenberg equation with conformable operator</i>
14.30-14.45	cmt2020-am-24	M.Aripov, O. Jabborov, Sh.A.Sadullaeva National University of Uzbekistan, Uzbekistan <i>Mathematic modeling solution of the double nonlinear parabolic equation with damping</i>
14.45-15.00	cmt2020-am-10	R.R.Ashurov, Yu.E.Fayziev V.I.Romanovskiy Institute of Mathematics; National University of Uzbekistan, Uzbekistan <i>Uniqueness and existence for inverse problem of determining an order of time-fractional derivative of subdiffusion equation</i>
15.00-15.15		Break
Time	Paper ID	Chair: Ass. Prof., Dr. U. Dalabaev <i>University of World Economy and Diplomacy, Uzbekistan</i>
15.15-15.30	cmt2020-am-18	Bouchra Azzaoui, Brahim Tellab Kasdi Merbah University, B.P. Ouargla, Algeria. <i>Nonexistence of global solutions for a class of fractional differential systems</i>
15.30-15.45	cmt2020-fd-4	U. Dalabaev University of World Economy and Diplomacy, Uzbekistan <i>Mathematical description of the fluid flow outside and inside a porous medium based on an interpenetrating model</i>
15.45-16.00	cmt2020-am-25	Dilfuza Eshमतova, Rasul Ganikhodzhaev Tashkent State Transport University; National University of Uzbekistan, Uzbekistan <i>Tournaments of Volterra type transversal operators acting in the simplex S_m^1</i>
16.00-16.15	cmt2020-am-20	R.N.Ganikhodzhaev, O.N.Shodiyev National University of Uzbekistan, Uzbekistan <i>Analytical method for determining the section of a polyhedron</i>
16.15-16.30		Break
Time	Paper ID	Chair: Ass. Prof., Dr. Loy Kak Choon <i>Universiti Malaysia Terengganu, Malaysia</i>
16.30-16.45	cmt2020-am-12	Valery Karachik, Batirkhan Turmetov South Ural State University, Chelyabinsk, Russia; A.Yasawi International Kazakh-Turkish University, Kazakhstan,

		<i>On sufficient solvability conditions for Neumann type problems for polyharmonic equation in a ball</i>
16.45-17.00	cmt2020-am-5	Sarvinoz Kuchkarova National University of Uzbekistan, Tashkent, Uzbekistan. <i>The problem of pursuit mixed constraints</i>
17.00-17.15	cmt2020-am-2	Gulchehra Kulieva, Komil Kuliev Samarkand branch of Tashkent University of Informational Technology; Samarkand State University, Uzbekistan <i>Application of extended Rothe's method for nonlinear parabolic variational inequalities in noncylindrical domains</i>
17.15-17.30	cmt2020-fd-2	Loy Kak Choon, Chris Cantwell, Spencer J. Universiti Malaysia Terengganu, Malaysia. <i>Efficient solver for the incompressible Navier-Stokes equations: On numerical challenges in solving lid-driven cavity problem</i>

Session 6

Mathematical Modeling

11.00-17.30

August 24, 2020, THR (UTC+5)

Room F ID: 258 718 8786

Time	Paper ID	Chair: Prof., Dr. Abd Fatah Wahab Universiti Malaysia Terengganu, Malaysia
11.00-11.15	cmt2020-mm-17	Abd Fatah Wahab, Syafiq Bidin , Izat Emir Universiti Malaysia Terengganu, Malaysia <i>Fuzzy B-spline modeling methods on fuzzy topological linguistic spaces for uncertainty data visualization problems</i>
11.15-11.35	cmt2020-mm-26 Invited Talk	Ilyani Abdullah University Malaysia Terengganu, Malaysia <i>The Influence of Magnetic Field on Wall Shear Stress in Power Law Fluid Flow of Blood</i>
11.35-11.50	cmt2020-mm-25	Akmal Absalamov Samarkand State University, Uzbekistan <i>On Eigenvalue of a Gonosomal Evolution Operator</i>

11.50-14.00	Break	
Time	Paper ID	Chair: Dr. Auni Aslah Mat Duad Universiti Malaysia Terengganu, Malaysia
14.00-14.15	cmt2020-mm-10	Chong Nyuk Sian, Hardwick Robert J., Truscott James E., Anderson Roy M. Universiti Malaysia Terengganu, Malaysia <i>A soil-transmitted helminthiasis prevalence-based deterministic model</i>
14.15-14.30	cmt2020-mm-28	Alimardon Elmurodov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>A Leslie-Gower predator-prey model with two free boundaries</i>
14.30-14.45	cmt2020-mm-13	Hanani, I. Muhamad Safiih University Malaysia Terengganu, Malaysia <i>Modelling of Ecological and Economic Sustainability of Coastal Area for Shrimp Aquaculture Production at I-SHARP, Setiu, Terengganu Darul Iman</i>
14.45-15.00	cmt2020-13-2	Auni Aslah Mat Duad Universiti Malaysia Terengganu, Malaysia <i>Why do we need the qualitative theory of ordinary differential equations?</i>
15.00-15.15	Break	
Time	Paper ID	Chair: Prof., Dr. Normahmat Ravshanov Tashkent University of Information Technology, Uzbekistan
15.15-15.30	cmt2020-mm-1	Kholmatzhon Imomnazarov, Ulugbek Turdiev Institute of Computational Mathematics and Mathematical Geophysics SB RAS, Novosibirsk, Russia; Karshi State University, Uzbekistan <i>A system of equations of the two-velocity hydrodynamics without pressure</i>
15.30-15.45	cmt2020-mm-29	G.U.Juraev, Z.Sh.Tulaganov, D.G.Juraeva National University of Uzbekistan, Uzbekistan <i>Ewater resources in the channels of irrigation systems</i>
15.45-16.00	cmt2020-mm-23	Laziz Niyozovich Khudoyorov Karshi branch of the Tashkent University of Information Technologies, Uzbekistan <i>Analysis of economic indicators of developing of small business using econometric models</i>
16.00-16.15	cmt2020-mm-2	S.Kosbergenov, M.S.Kosbergenova Nukus State Pedagogical Institute, Uzbekistan; National University of Uzbekistan, Uzbekistan <i>Method for the hierarchical assessment of personnel competence in the educational system</i>

16.15-16.30	Break	
Time	Paper ID	Chair: Ass. Prof., Dr. Nik Mohd Asri Bin NIK LONG <i>Putra Malaysia University, Malaysia</i>
16.30-16.45	cmt2020-mm-11	Sarvar Kuyliiev, Kholmatzhon Imomnazarov, Ilham Iskandarov Samarkand State University, Uzbekistan <i>The regularity of a Stokes-type problem for a stationary system of the two-velocity hydrodynamics on the plane</i>
16.45-17.00	cmt2020-13-11	K.Zh.Nazarova, K.I.Usmanov Akhmet Yassawi University, Kazakhstan <i>Univalent solvability of the boundary value problem for integro-differential equations with involution</i>
17.00-17.15	cmt2020-mm-24	D.B.Nigmanova, Yu.S.Yusupov National University of Uzbekistan, Uzbekistan <i>On the properties of generalized solutions of a nonlinear Cauchy problem for a nonlinear parabolic system with absorption or source</i>
17.15-17.35	cmt2020-mm-5 Invited Talk	Nik Mohd Asri Bin NIK LONG Putra Malaysia University, Malaysia <i>Stress intensity factor for thermally insulated multiple cracks in bonded dissimilar materials</i>

August 25, 2020 – Keynote talk and Session Day 2

UTC + 5

Time	ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822		
09.00- 09.10	Opening Remark	Prof., Dr. M.M.Aripov, National University of Uzbekistan, Uzbekistan	
Keynote Talk 2 ROOM A ID: 628 951 4129 and ROOM B ID: 927 290 9822 09.10-09.40		Professor, Dr., A.S. Rasulov University of World Economy and Diplomacy, Uzbekistan <i>Title: Monte Carlo methods for pricing weather derivatives</i>	
Abstract. In recent years the complexity of numerical computation in financial weather derivative theory and practice has increased enormously, putting more demands on computational speed and efficiency. Numerical methods, particularly Monte Carlo method are used for a variety of purposes. In modern finance, the prices of the basic securities and the underlying state variables are often modelled as continuous-time stochastic processes. A derivative security, such as a call option, is a security whose payoff depends on one or more of the basic securities. Using the assumption of no arbitrage, financial		- Average the discounted cash flows over sample paths. In effect, this method computes a multi-dimensional integral as the expected value of the discounted payouts over the space of sample paths. The increase in the complexity of derivative securities in recent years has led to a need to evaluate high-dimensional integrals. Monte Carlo becomes increasingly attractive compared to other methods of numerical integration as the dimension of the problem increases. Different variance reduction techniques have been developed to increase precision of numerical calculation. In theory of Monte Carlo methods existed following	Bio: Abdujabar S. Rasulov his B.SC. degree and MSc degree in Mathematics from Tashkent State University in 1972, Tashkent, Uzbekistan. His Ph.D. degree in Mathematics and Physics on computational mathematics field, from Institute of Mathematics of Uzbekistan. His D.Sc. degree in Mathematics and Physics on computational mathematics field, from Siberian Branch of Academy of Science in Russia, Novosibirsk. He has 48 years (15 years at the National University of Uzbekistan (NUUz), Tashkent Uzbekistan, 6 years in Sankt Petersburg State University , Russia and 27 years

economists have shown that the price of a generic derivative security can be expressed as the expected value of its discounted payouts. This expectation is taken with respect to a transformation of the original probability measure known as the equivalent martingale measure or the risk-neutral measure. The same situation exists in the area of pricing weather derivatives. On the other hand, the Monte Carlo method lends itself naturally to the evaluation of security prices represented as expectations. Generically, the approach consists of the following steps: - Simulate sample paths of the underlying state variables (e.g., underlying asset prices and interest rates) over the relevant time horizon. Stimulate these according to the risk-neutral measure. In case of weather derivatives, the simulation of weather process. - Evaluate the discounted cash flows of a security (weather options) on each sample path, as determined by the structure of the security in question.	well known classical variance reduction techniques. Control variate approach, the antithetic variate method, moment matching, importance sampling, and others have been introduced in finance applications. Another technique for speeding up the valuation of multi-dimensional integrals uses deterministic sequences rather than random sequences. These deterministic sequences are chosen to be more evenly dispersed throughout the region of integration than random sequences. If we use these sequences to estimate multi-dimensional integrals we can often improve the convergence rate. Deterministic sequences with this property are known as low-discrepancy sequences or quasi-random sequences. In the work we will describe more detailed theoretical foundation of each variance reduction techniques with connection of weather derivatives which applied for the calculation weather options and presented the results of numerical experiments.	in the University of World Economy and Diplomacy (UWED),Uzbekistan) experience in teaching of variety of Mathematical subjects. He is an author of over 150 scientific publications, including two monographs and three textbooks. He has published many Currently, he is professor, Head of department “Mathematical modeling and information technology” of UWED, Tashkent Uzbekistan. His research interests are Computational Mathematics, Monte Carlo methods, Financial mathematics, Numerical solution of Boundary value problems, and application of parallel and asynchronous methods.
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Session 1
Computational Mathematics

11:00-17:45

August 25, 2020, THR (UTC+5)

Room A ID: 628 951 4129

Time	ID	Chair: Ass. Prof., Dr. Z.Eshkuvatov University Malaysia Terengganu, Malaysia
11.00-11.15	cmt2020-cm-31	Rasulov Rashidjon V.I.Romanovskiy Institute of mathematics, Uzbekistan <i>Extension of the Euler-Maclaurin quadrature formula in the space $W^{(2k;2k-1)}$</i>
11.15-11.30	cmt2020-cm-14	Dauletbay Utebaev, B.D.Utebaev Karakalpak State University, Uzbekistan <i>Сравнение некоторых методов решения волновых уравнений с сильной дисперсией</i>
11.30-11.45	cmt2020-cm-37	Tursun Yuldashev National University of Uzbekistan, Tashkent, Uzbekistan On a Volterra Type Fractional Integro-Differential Equation with Degenerate Kernel
11.45-12.00	cmt2020-cm-1	R.D.Aloev, D.E.Ne'matova National University of Uzbekistan, Uzbekistan <i>Численная устойчивость по Ляпунову гиперболической системы линейных законов баланса с неоднородными коэффициентами</i>
12.00-14.00		Break
Time	Paper ID	Chair: Ass. Prof., Dr. Adibah Shuib Universiti Teknologi MARA (UiTM), Malaysia
14.00-14.20	cmt2020-cm-2 Invited Talk	R.D.Aloev, D.E.Ne'matova National University of Uzbekistan, Uzbekistan <i>Противопоточная разностная схема для трехмерной линейной гиперболической системы</i>
14.20-14.35	cmt2020-cm-4	R.D.Aloev, Sh.O.Davlatov National University of Uzbekistan; Karshi State University, Uzbekistan <i>Устойчивость разностной схемы, полученная методом конечных элементов при численном решении симметрических t –гиперболических систем</i>
14.35-14.55	cmt2020-cm-40 Invited Talk	Adibah Shuib, Muhamed Fishal, Nur Hayatul Asna Universiti Teknologi MARA (UiTM), Malaysia

		<i>Mixed integer goal programming model for municipal solid waste transformation – a case study of Shah Alam</i>
14.50-15.05	cmt2020-cm-23	A.Imomov, S.M.Toshboyev, S.S.Hasanov Namangan State University, Uzbekistan, MathCAD не только программа, а исполнитель алгоритмов
15.05-15.15		Break
Time	Paper ID	Chair: Prof., Dr. A.S.Rasulov <i>University of World Economy and Diplomacy, Uzbekistan</i>
15.15-15.30	cmt2020-cm-41, Invited Talk	Michail V.A. Mascagni Florida State University, Tallahassee, USA <i>The White Rat of Numerical Reproducibility</i>
15.30-15.45	cmt2020-cm-38	A.K.Boltaev, D.M.Akhmedov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Экстремальная функция дифференциального оператора $\frac{d^5}{dx^5} + 5\frac{d^3}{dx^3} + 4d$</i>
15.45-16.00	cmt2020-cm-34	Ik.I.Jalolov Tashkent State Transport University, Uzbekistan <i>О построении дискретного аналога $D_{-3}h[\beta]$ одного оператора</i>
16.00-16.15	cmt2020-cm-33	O.I.Jalolov, Kh.U.Khayatov Bukhara State University, Uzbekistan <i>Нижняя оценка нормы функционала погрешности решетчатых кубатурных формул в пространстве H_p^μ</i>
16.15-16.30		Break
Time	Paper ID	Chair: Prof., Dr. A.R.Hayotov <i>V.I.Romanovskiy Institute of Mathematics, Uzbekistan</i>
16.30-16.5	cmt2020-cm-12	S.A.Bakhromov, G.P.Ismatullaev National University of Uzbekistan, Uzbekistan <i>Построение кубатурной формулы пятой степени точности содержащие значений частных производных</i>
16.45-17.00	cmt2020-cm-19	H.M.Kuldoshev Tashkent University of Information Technology, Uzbekistan <i>Вычисление коэффициентов оптимальных квадратурных формул в пространстве W</i>
17.00-17.15	cmt2020-cm-7	Akmal Mamatov Высшее военное авиационное училище Республики Узбекистан, Узбекистан

		<i>Решение линейной игры двух лиц</i>
17.15-17.30	cmt2020-cm-3	D.E.Ne'matova, S.Amirqulov, J.U.Khujaev National University of Uzbekistan, Uzbekistan <i>Противопоточная разностная схема для гиперболической системы из двух уравнений</i>
17.30-15.45	cmt2020-cm-24	N.D.Boltaev, A.I.Kurbonnazarov Tashkent State Transport University, Uzbekistan; Termez State University, Uzbekistan; <i>Оптимальная квадратурная формула в смысле Сарда для коэффициентов Фурье в пространстве K_2</i>

Session 1

11:00-15:00

August 25, 2020, THR (UTC+5)

Computational Mathematics

Room B ID: 927 290 9822

Time	ID	Chair: Prof., Dr. R.D.Aloev <i>National University of Uzbekistan, Uzbekistan</i>
11.00-11.15	cmt2020-cm-35	F.A.Nuraliev, R.Rasulov, R.N.Mirzakabilov V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Квадрат нормы функционала погрешности одной квадратурной формулы с производными</i>
11.15-11.30	cmt2020-cm-11	R.I.Parovik Камчатский государственный университет, Петропавловск-Камчатск, Россия <i>Применение метода Адамса-Башфора-Мултона к численному исследованию моделей линейны дробных осцилляторов</i>
11.30-11.45	cmt2020-cm-18	D.A.Tverdiy Институт прикладной математики и автоматики КБНТ РАН, Россия <i>Исследование эрмитарной динамической системы Риккати с модификацией дробно-дифференциального оператора типа Герасимова-Капуто</i>
11.45-12.00	cmt2020-cm-9	Bello Muhammed <i>Group Coloring Via Its Geometric Structures</i>
12.00-14.00		Break
Time	Paper ID	Chair: Prof., Dr. A.R.Hayotov <i>V.I.Romanovskiy Institute of Mathematics, Uzbekistan</i>

14.00-14.15	cmt2020-cm-32	Ulikov Sh. Tursunova E. Fergana State University, Uzbekistan <i>Uchinchi tartibli to'la differensialli tenglama integrallovchi ko'paytuvchisini aniqlash</i>
14.15-14.30	cmt2020-cm-36	Kh.M.Shadimetov, F.A.Nuraliev Tashkent State Transport University, Uzbekistan; V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Экстремальная функция кубатурной формулы типа Эрмита</i>
14.30-14.45	cmt2020-cm-5	B.E.Eshpulatov, M.Sh.Ubaydullaev Tashkent University of Information Technologies, Uzbekistan <i>Вычисление определенных интегралов с применением кусочно полиномиальной схемы</i>
14.45-15.00	cmt2020-cm-25	G.N.Akhmadaliev Tashkent State Transport University, Uzbekistan <i>Интерполяционные сплайны минимизирующие норму в пространстве $K_2(P_m)$</i>
15.00-15.15		Break

Session 5

Applied Mathematics and
Statistics

15:15-17:15

August 25, 2020, THR (UTC+5)

Room B ID: 927 290 9822

Time	Paper ID	Chair: Ass. Prof., Dr. U.Dalabaev <i>University of World Economy and Diplomacy, Uzbekistan</i>
15.15-15.30	cmt2020-as-5	Sh.Yu.Juraev V.I.Romanovskiy Institute of Mathematics, Uzbekistan <i>Об уточнениях асимптотического разложения критических ветвящихся случайных процессов</i>
15.30-15.45	cmt2020-am-22	A.S.Ismoilov Samarkand State University, Uzbekistan <i>Слабо некорректная задача интегральной геометрии по семейству парабол с возмущением</i>
15.45-16.00	cmt2020-am-11	B.Turmetov, J.S.Erkisheva, Sh.B.Kulaxmetova International Kazakh – Turkish University named after A. Yassavi, Kazakhstan <i>О разрешимости некоторых вырождающихся краевых задач с инволюцией</i>
16.00-16.15	cmt2020-am-7	K.S.Fayazov, I.O.Khajiyeu

		Turin Polytechnic University; National University of Uzbekistan, Uzbekistan <i>Нелокальная краевая задача для дифференциального уравнения четвертого порядка с одной линией вырождения</i>
16.15-16.30		Break
Time	Paper ID	Chair: Dr. Mohd Rijal Ilias Universiti Teknologi MARA, Malaysia
16.30-16.45	cmt2020-ia-2	Z.Yuldashev, A.Ibragimov, F.Tokhirov National University of Uzbekistan, Uzbekistan; Navoi Pedagogical Institute, Uzbekistan
16.45-17.00	cmt2020-am-26	Rabiatuladawiyah Ismail, Ahmad Sukri Abd Aziz, Mohd Rijal Ilias Universiti Teknologi MARA, Malaysia <i>Effects of Radiation and chemical Reaction on 3D Stretched Flow with convective Boundary Condition in the Presence of heat generation</i>
17.00-17.15	cmt2020-13-1	I.M.Ajmukhamedov, V.Yu.Kuznetsova Астраханский государственный университет, Россия <i>Методика классификации заемщиков для совершенствования скоринговой системы микрофинансовой организации</i>

Session 6

Mathematical Modeling

11:00-16:50

August 25, 2020, THR (UTC+5)

Room C ID: 719 306 1552

Time	Paper ID	Chair: Ass. Prof., Dr. Khudoyberganov M.U. National University of Uzbekistan, Uzbekistan
11.00-11.15	cmt2020-mm-3	A.Z.Mamatov, S.A.Baxramov, A.B.Narmamatov National University of Uzbekistan, Uzbekistan <i>Приближенное решение метода Галеркина квазилинейного уравнения с граничным условием, содержащий производную по времени от искомой функции</i>
11.15-11.30	cmt2020-mm-30	M.O.Musurmonova, A.M.Shukurov Karshi State University, Uzbekistan

		<i>Дифракция нестационарных сферических волн давления на жестком неподвижном шаре в акустическом полупространстве</i>
11.30-11.45	cmt2020-13-17	I.Safarov, N.Kuldashov, N.Esanov, Sh.Almuratov, Z.Boltaev Tashkent Chemical-Technological Institute; Bukhara State University; Termiz State University; Bukhara Engineering-Technological Institute, Uzbekistan <i>Собственные колебания вязкоупругих тороидальных оболочек с протекающей жидкостью</i>
11.45-12.00	cmt2020-mm-22	O.O.Suvonov, S.S.Kuchkarova Navoi State Pedagogical Institute, Uzbekistan <i>Вычислительный эксперимент численного исследования гидродинамических процессов во взаимодействующих пластов</i>
12.00-14.00	Break	
Time	Paper ID	Chair: Prof., Dr. M.Tukhtasinov National University of Uzbekistan, Uzbekistan
14.00-14.15	cmt2020-mm-16	O. O.Suvonov Navoi State Pedagogical Institute, Uzbekistan <i>Математическое моделирование функционирования гидродинамической системы с распределенными параметрами</i>
14.15-14.30	cmt2020-13-15	M.Teshaev, Sh.Ablukulov, M.Ergashev, D.Riyimov, B.Nuriddinov Bukhara Branch of the Institute of Mathematics, Uzbekistan; Bukhara Engineering and Technology Institute, Uzbekistan; Bukhara Medical Institute, Uzbekistan <i>Радиальные колебания вязкоупругой сферической оболочки</i>
14.30-14.45	cmt2020-13-6	B.Kh.Turmetov, B.J.Kadirkulov International Kazakh-Turkish University, Kazakhstan; Tashkent State University of Oriental Studies, Uzbekistan <i>Об одной обратной задаче для параболического типа с инволюцией</i>
14.45-15.00	cmt2020-mm-4	M.Tukhtasinov, B.X.Khayitkulov National University of Uzbekistan, Uzbekistan <i>Консервативные разностные схемы по оптимальному выбору местоположения источников тепла в стержне</i>
15.00-15.15	Break	
Time	Paper ID	Chair: Prof., Dr. O.Zikirov National University of Uzbekistan, Uzbekistan
15.15-15.30	cmt2020-13-21	Z.U.Uzakov

		Karshi branch of Tashkent University of Information Technologies, Uzbekistan <i>Влияние способа вычисления значения коэффициента теплопроводности на численное решение</i>
15.30-15.45	cmt2020-13-7	A.Kh.Khotamov, R.Sh.Valetov Samarkand branch of TUIT; Electromagnetic compatibility service of Samarkand region, Uzbekistan <i>Методы анализа характеристики индустриальной радиопомехи на основе измерительной антенны</i>
15.45-16.00	cmt2020-13-3	B.Eshmatov, G.Kayumov Karshi Engineering and Economic Institute, Uzbekistan <i>Об одной задаче для параболо-гиперболического уравнения дробного порядка с вырождением по времени</i>
16.00-16.15	cmt2020-mm-31	A.Sattarov Filial RGU nefti i gaza (NIU) imeni I.M.Gubkina v g. Tashkente, Uzbekistan Компьютерное моделирование прикладных задач с помощью MatLab

Session 4

Computational Algebra and Theory of Functions

11:00-15:00

August 25, 2020, THR (UTC+5)

Room D ID: 650 646 3518

Time	Paper ID	Chair: Prof., Dr. I.Rakhimov <i>Universiti Teknologi MARA (UiTM), Malaysia</i>
11.10-11.25	cmt2020-13-8	Berdiyor Mamirov Samarkand State University, Uzbekistan <i>Асимптотика собственных значений оператора Шредингера системы двух базисов на решетке</i>
11.25-11.40-	cmt2020-ca-7	K.K.Muminov, R.A.Gafforov National University of Uzbekistan; Fergana State University, Uzbekistan <i>Эквивалентности путей относительно действия группы $O(n-2, p-1, K)$</i>
11.40-11.55	cmt2020-tf-3	Nurbek Narzillayev, Sevara Eshdavatova National University of Uzbekistan, Uzbekistan <i>$\mathbb{D}(\alpha, \psi)$-регулярный компакт в комплексной плоскости $\mathbb{C}$</i>
11.55-12.10	cmt2020-fa-3	Xolida Anorboevna Primova, Lola Safarova Samarkand branch of TUIT, Scientific and innovation center of information and communication technologies at TUIT, Uzbekistan

		<i>Прогностическая модель диагностики болезни остеодистрофии и коров с использованием нечеткое множество</i>
12.10-14.00		Break
Time	Paper ID	Chair: Dr. Nor Hanimah Khamis <i>Universiti Teknologi MARA (UiTM), Malaysia</i>
14.00-14.15	cmt2020-tf-1	Dilobar Uktamalieva, Ikromjon Uktamaliyev Namangan State University, Uzbekistan <i>Полное описание периодических мер Гиббса для NS –модели на дереве Кэли порядка два</i>
14.15-14.30	cmt2020-tf-10	Malik Saad Al-Muhja, Habibulla Akhadkulov, Nazihah Ahmad Universiti Utara Malaysia, Sintok, Kedah, Malaysia; University of Al-Muthanna, Samawa , Iraq <i>On Weighted Approximation of (Co)convex Functions with Polynomials of Varying Degrees</i>
14.30-14.45	cmt2020-tf-11	H.H.Boltaev Tashkent State Transport University, Uzbekistan, <i>Sushestvovaniye izomorfizma dlya veshestvennikh faktorov</i>
14.45-15.00	cmt2020-tf-9	Rakhmonov Uktam, Abdullayev Jonibek, Qurambaev Khamdam Tashkent State Technical University, National University of Uzbekistan, Uzbekistan <i>The second type matrix ball and volume its skeleton</i>

Session 5

Applied Mathematics and
Statistics

11:00-17:30

August 25, 2020, THR (UTC+5)

Room E ID: 844 393 2196

Time	Paper ID	Chair: Dr. Normi Abd Hadi <i>Unversiy Teknologi MARA, Malasia</i>
11.00-11.15	cmt2020-am-1	Mohd Dom Rosma Unversiy Teknologi MARA, Malasia <i>FTSE Bursa Malaysia KLCI performance prediction using combination of Principal Component Analysis and Artificial Neural Networks</i>
11.15-11.30	cmt2020-am-9	Mukhiddin I. Muminov, Zafar Z. Jumaev

		Universiti Teknologi Malaysia, Malaysia; Samarkand State University, Uzbekistan. <i>Existence conditions of periodic solutions of second-order neutral delay differential equations with piecewise constant arguments</i>
11.30-11.45	cmt2020-as-3	Mustafa Khalid Nurlzyan, Md Yusof Zahayu Sultan Abdul Halim Mu'adzam Shah International Islamic University, Malaysia; Universiti Utara Malaysia, Sintok, Kedah, Malaysia <i>Estimation of Covariance Matrices</i>
11.45-12.00	cmt2020-am-16	Naimi Abdellouahab, Brahim Tellab, Khaled Zennir Department of Mathematics, Ouargla University, Department of Mathematics, College of Sciences and Arts, Al-Ras, Qassim University, Kingdom of Saudi Arabia <i>Existence and uniqueness with ulam stability results for the solution of nonlinear fractional integro-differential equation</i>
12.00-14.00	Break	
Time	Paper ID	Chair: Ass. Prof., Dr. Zabidin Salleh <i>Universiti Malaysia Terengganu, Malaysia</i>
14.00-14.15	cmt2020-as-1	Norani Binti Amit, Hasimah Binti Sapiri, Zahayu Binti Md Yusof Universiti Teknologi MARA, Malaysia; Universiti Utara Malaysia, Malaysia. <i>Logistic regression analysis on the determinants of homeownership</i>
14.15-14.30	cmt2020-am-6	Nur Hafiza Azwani Mohd Saidi, Mohamad Nazri Husin and Nur Baini Ismail Universiti Malaysia Terengganu, Terengganu, Malaysia <i>On the topological indices of the line graphs of Polyphenylene dendrimer</i>
14.30-14.45	cmt2020-am-4	Nur Zahidah Ismail, Siti Khuzaimah Soid, Zaileha Md Ali, Mohd Rijal Illias Universiti Teknologi MARA, Malaysia <i>Stagnation Flow of Hybrid Nanofluid using Hyperbolic Tangent Fluid Model</i>
14.45-15.00	cmt2020-as-6	Gulnora Raimova, Dauranbek Abdiganiev V.I. Romanovskiy Institute of Mathematics, University of World Economy and Diplomacy, Uzbekistan <i>Econometric Analysis and Statistical Estimating the Parameters of Okun's Law for Uzbekistan</i>
15.00-15.15	Break	
Time	Paper ID	Chair: Ass. Prof., Dr. Loy Kak Choon <i>Universiti Malaysia Terengganu, Malaysia</i>
15.15-15.30	cmt2020-am-15	Sam'an Muhammad, Farikhin, Surarso Bayu, Irwanto Bambang, Dasril Yosza, Ujang Nazarudin Bin University of Diponegoro, Jl. Prof Soedarto, SH Tembalang Semarang, Indonesia.

		<i>A New Approach in Solving Transportation Problem Based on Modifications of TDM and Integration of KSAM Algorithms</i>
15.30-15.50	cmt2020-am-21 Invited Talk	Sumarni Abu Bakar, Noor Syahida Fauzi UiTM Malaysia <i>Improving Smartphone Selection by using Graph Theory Matrix Approach with Generalized Fuzzy Number</i>
15.50-16.05	cmt2020-am-23	Tahani Jabbar Khraibet Department of Mathematics, Thi-Qar Directorates of Education , Ministry of Education, Iraq <i>Artificial Fish Swarm Algorithm for Parallel Identical Machines Scheduling with release date</i>
16.05-16.20	cmt2020-as-4	Khusanbaev Ya.M., Qudratov H.E. V.I.Romanovskiy Institute of Mathematics; National University of Uzbekistan, Uzbekistan <i>O'zgaruvchan muhitdagi tarmoqlanuvchi jarayonlar momentlari uchun tengsizliklar</i>
16.20-16.30		Break
Time	Paper ID	Chair: Prof., Dr. Raimova Gulnora <i>V.I.Romanovskiy Institute of Mathematics, Uzbekistan</i>
16.30-16.45	cmt2020-am-13	Tursun Yuldashev, Farhod Rakhmonov National University of Uzbekistan, Tashkent, Uzbekistan <i>Nonlocal Problem for a Nonlinear Fractional Mixed Type Integro-Differential Equation with Spectral Parameters</i>
16.45-17.00	cmt2020-am-14	Tursun Yuldashev, Farhod Rakhmonov National University of Uzbekistan, Tashkent, Uzbekistan <i>Nonlocal Inverse Problem for a Pseudohyperbolic-Pseudoelliptic Type Differential Equation</i>
17.00-17.15	cmt2020-fd-5	R.D.Aloev, A.A. Akbarova National University of Uzbekistan, Tashkent, Uzbekistan <i>Численное решение квазилинейной гиперболической системы уравнений Сен-Венана в частном случае</i>
17.15-17.30	cmt2020-am-17	R.N.Ganikhodjaev, M.A.Tadjiev National University of Uzbekistan, Tashkent, Uzbekistan <i>Устойчивость неподвижных точек дискретных систем вольтерровского типа</i>

Session 6

Mathematical Modeling

11:00-17:30

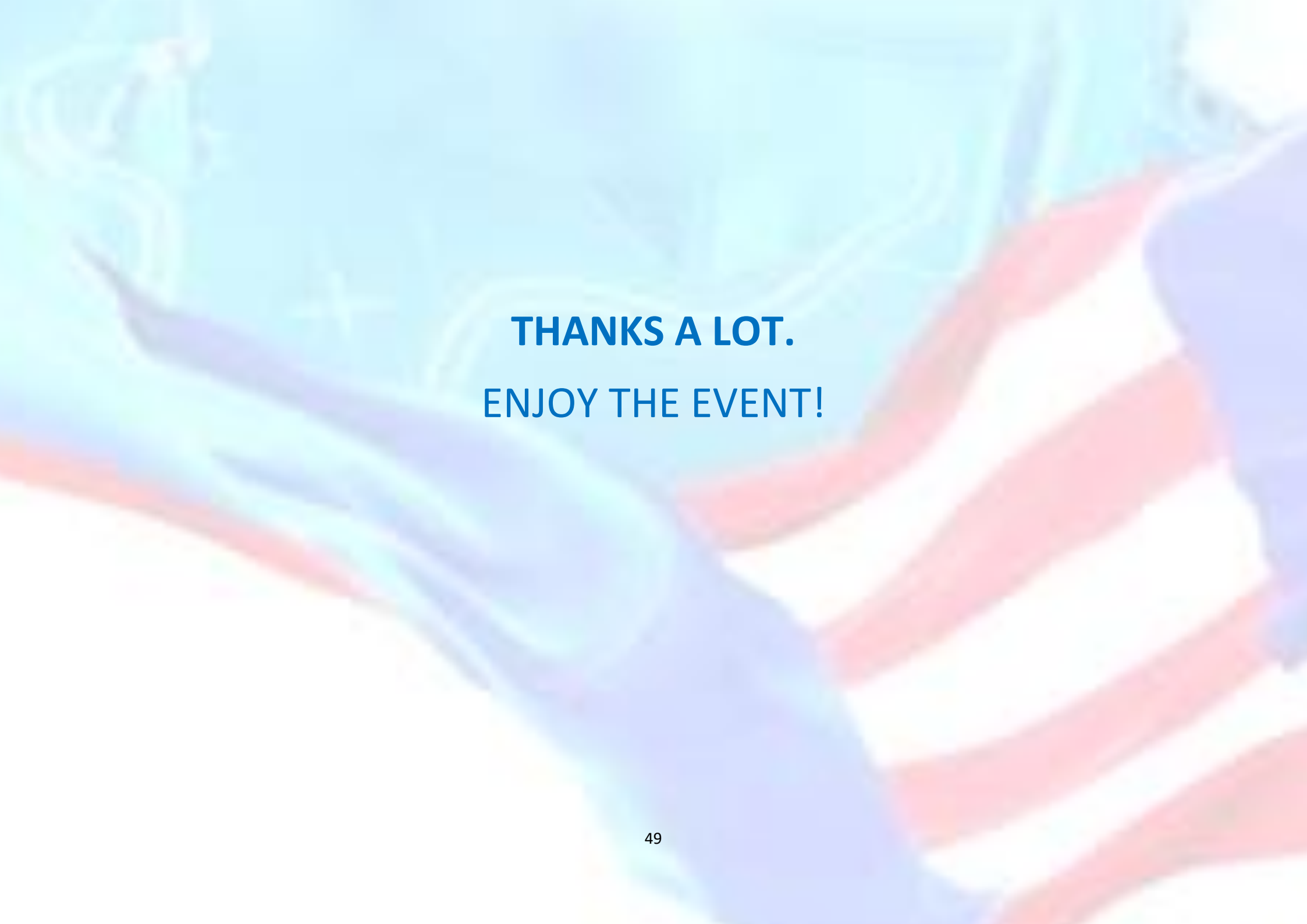
August 25, 2020, THR (UTC+5)

Room F ID: 258 718 8786

Time	ID	Chair: Ass. Prof., Dr. Nik Mohd Asri Bin NIK LONG <i>Putra Malaysia University, Malaysia</i>
11.00-11.15	cmt2020-mm-7	Aziza Nurumova National University of Uzbekistan, Tashkent, Uzbekistan <i>Diffusion processes in heterogeneous bodies</i>
11.15-11.30	cmt2020-13-14	Z.Rakhmonov, A.Alimov National University of Uzbekistan; The Branch of Plekhanov Russian University of Economics in Tashkent, Uzbekistan <i>Global existence and nonexistence for a multidimensional system of parabolic equations with nonlinear boundary conditions</i>
11.30-11.45	cmt2020-mm-27	Sh.Sadullaeva, Z.Fayzullaeva, M.Kh.Karimov Tashkent University of Information Technologies, Uzbekistan <i>Numerical investigation one of doubly nonlinear reaction-diffusion system</i>
11.45-12.00	cmt2020-mm-8	Teow Boon Keong, Nor Fauzan Ramadan Ramadan Ita, Nazihah Ahmad School of Quantitative Sciences (SQS); College of Arts and Sciences (CAS); Universiti Utara Malaysia, Malaysia <i>A Mathematical Modelling Approach to Predict Global Life Expectancy based on Non-Medical Factors</i>
12.0-0-14.00		Break
Time	Paper ID	Chair: Prof., Dr. Abd Fatah Wahab <i>Universiti Malaysia Terengganu, Malaysia</i>
14.00-14.15	cmt2020-mm-12	Ulugbek Tuliyeu National University of Uzbekistan, Uzbekistan <i>Space formation for the description of thematic documents</i>
14.15-14.30	cmt2020-mm-6	Nietbay Uteuliev, Gafur Djaykov, Abat Seidullaev Nukus branch of Tashkent University of Information Technologies; Karalpak State University, Uzbekistan <i>Inversion formula for the problem of integral geometry on families of parabolas</i>
14.30-14.45	cmt2020-13-16	M.U.Yakhshiboev National University of Uzbekistan, Uzbekistan <i>Fractional difference operators with multiplicative step</i>

14.45-15.00	cmt2020-mm-20	G.M.Abdulolimova Andijan State University, Uzbekistan <i>Решение конфликта в колебательной системе стартовыми управлениями</i>
15.00-15.15		Break
Time	Paper ID	Chair: Prof., Dr. Normahmat Ravshanov <i>Tashkent University of Information Technology, Uzbekistan</i>
15.15-15.30	cmt2020-mm-15	R.A.Abirov, B.E.Xusanov, D.A.Sagdullaeva Institut mexaniki i seysmostoykosti soorujeniy AN RUz <i>К математическому моделированию упруго-пластического процесса штамповки</i>
15.30-15.45	cmt2020-13-5	M.A.Jalilov, G.A.Kayumov Fergana State University, Uzbekistan; Karshinskiy injenerno-ekonomicheskij institute, Uzbekistan <i>Об одной обратной задаче для нелокального уравнения смешанного типа с оператором Хильфа</i>
15.45-16.00	cmt2020-mm-21	T.T.Jurakulov Navoiy State Institute, Uzbekistan <i>Математическое моделирование процессов обучения на основе теории управления</i>
16.00-16.15	cmt2020-mm-19	R.Sh.Indiaminov, R.B.Butaev, A.S.Narkulov Samarkand branch of Tashkent University of Information Technologies, Uzbekistan <i>Магнитоупругое деформирование гибких оболочек в нелинейной постановке</i>
16.15-16.30		Break
Time	Paper ID	Chair: Dr. Auni Aslah Mat Duad <i>Universiti Malaysia Terengganu, Malaysia</i>
16.30-16.45	cmt2020-mm-18	R.Sh.Indiaminov, R.B.Butaev, A.S.Narkulov Samarkand branch of Tashkent University of Information Technologies, Uzbekistan <i>Нелинейное деформирование токонесущей оболочки в магнитном поле</i>
16.45-17.00	cmt2020-13-4	B.I Islomov, B.Z.Usmonov National University of Uzbekistan, Uzbekistan <i>Краевая задача для уравнения составляющими из произведения не перестановочных дифференциальных операторов в прямоугольной области</i>
17.00-17.15	cmt2020-13-19	M.Ishmamatov, A.Ruzimov, F.Khomidov, Kh.K.Sayidov, T.R.Ruziev Навоийский горный институт; Ташкентский химико-технологический институт; Бухарский инженерно-технологический институт; Бухарский мединститут, Узбекистан

		<i>Динамическое напряженно-деформированное состояние цилиндрических труб с жидкостью при воздействии гармонических нагрузок</i>
17.15-17.30	cmt2020-mm-9	D.V.Makarov, R.V.Parovik Kamchatka State University, Petropavlovsk-Kamchatka, Russia <i>Численное моделирование длинных волн Кондратьева с учетом эридитарности</i>



THANKS A LOT.
ENJOY THE EVENT!