

## Conference Schedule (Online)

Keynote Talk (KT)		Invited Talk (IT)			Paper Presentation Session (PPS)				
Time (GST)	09:30-10:25	10:30-11:15	Tea Break	11:30-13:00	Lunch Break	14:30-15:30	15:30-16:15	Tea Break	16:30-18:00
Link 1	KT	IT		ITs		KT	IT		ITs
Link 2		PPS		PPS			PPS		PPS
Link 3		PPS		PPS			PPS		PPS
Link 4		PPS		PPS			PPS		PPS
Link 5		PPS		PPS			PPS		PPS
Link 6		PPS		PPS			PPS		PPS
Link 7		IT		ITs			IT		ITs

\*All the mentioned time are in Gulf Standard Time (GST).

\*\*The last session (17:15-18:10) on the third day (26-08-2022) is a Keynote session. There are no paper presentations during the Keynote sessions.

\*\*\*The Link 7 is available only on 24-August-2022 for broadcasting the live invited talks from CUD.

**Link 1****Day 1: 24-August-2022**

Time (GST)	Speakers
09:00-09:30	Inauguration
09:30-10:30 Keynote Talk	<b>Prof. Panneer Selvam R, University of Arkansas, USA</b> <i>Mathematical and Computational Challenges in Turbulence Flow Modeling: Illustration using Flow Around Building and Bridges</i>
10:30-11:15 Invited Talk	<b>Prof. Teodor Bulboaca, Babeş-Bolyai University, Romania</b> <i>Logarithmic Coefficients Conjectures for Subclasses of Convex Functions</i>
11:15-11:30	Tea Break
11:30-12:15 Invited Talk	<b>Prof. Hemant Kumar Nashine, VIT, Vellore, India</b> <i>Iterative Algorithms to Solve Nonlinear Matrix Equations</i>
12:15-13:00 Invited Talk	<b>Dr. Kannan Sundaravadivelu, IHPC, A*STAR, Singapore</b> <i>Near Wall Modeling of Turbulent Dissipation Rate</i>
13:00-14:30	Lunch Break

14:30-15:30 Keynote Talk	<b>Prof. Sundar S, Indian Institute of Technology, Madras, India</b> Pedestrian Crowd Dynamics Models and Numerics
15:30-16:15 Invited Talk	<b>Dr. Nagaraj Harthikote, UTAS-HCT, Muscat, Sultanate of Oman</b> <i>Simulation of High Voltage DC generator: A MATLAB Analysis</i>
16:15-16:30	Tea Break
16:30-17:15 Invited Talk	<b>Dr. Devaraju Narayanappa, University of Oslo, Oslo, Norway</b> <i>Application of Global Climate Modelling</i>
17:15-18:00 Invited Talk	<b>Prof. Indra Rajasingh, Saveetha School of Engineering, Chennai, India</b> <i>Wirelength of Graph Embeddings</i>
19:30-20:30	Conference Dinner at Dhow Marina Cruise

## Day 2: 25-August-2022

Time (GST)	Speaker
09:30-10:30 Keynote Talk	<b>Prof. Susmita Datta, University of Florida, USA</b> <i>Statistical Analysis of Single Cell RNA Sequencing (ScRNA-seq) Data</i>
10:30-11:15 Invited Talk	<b>Prof. S. Srinivas, VIT-AP University, Amaravati, India</b> <i>Heat Transfer to Two Immiscible Liquid MHD Flow in a Porous Space with an Oscillatory Pressure gradient</i>
11:15-11:30	Tea Break
11:30-12:15 Invited Talk	<b>Dr. Aisyah Fataf, Universiti Pertahanan Nasional Malaysia, Malaysia</b> <i>Communication Strategy Based on Fractional Chaotic Laser System for Internet of Things</i>
12:15-13:00 Invited Talk	<b>Dr. Nehad Ali Shah, Sejong University, Seoul, Korea</b> <i>Memory Effects on Conjugate-Convective Flows of a Generalized Fractional Constitutive Equation for Maxwell Fluid and Modified Thermal Flux in Cylindrical Domains</i>
13:00-14:30	Lunch Break
14:30-15:30 Keynote Talk	<b>Prof. Satyananda Panda, NIT Calicut, India</b> <i>Unravelling Surfactant Transport on a Thin Liquid Film</i>
15:30-16:15 Invited Talk	<b>Prof. P.G. Siddheshwar, CHRIST (Deemed to be University), India</b> <i>Rayleigh-Benard Convection in Viscoelastic Liquids: New Results in Rectangular and Cylindrical Geometries</i>
16:15-16:30	Tea Break
16:30-17:15 Invited Talk	<b>Dr. Nagarani Ponakala, The University of the West Indies, Jamaica</b> <i>Mathematical Modelling of Flow and Solute Transport in Physiological Systems</i>
17:15-18:00 Invited Talk	<b>Dr. Mohammad Hatami, Xi'an Jiaotong University, China</b> <i>An Exact Analytical Solution Marangoni Boundary Layer Flow with Heat and Mass Transfer</i>

**Day 3: 26-August-2022**

<b>Time (GST)</b>	<b>Speaker</b>
09:30-10:30 Keynote Talk	<b>Prof. Sohail Nadeem, Quaid-i-Azam University, Pakistan</b> <i>Mathematical computations of physiological and blood flows</i>
10:30-11:15 Contributed Talk	<b>Dr. R. Sivaraj, United Arab Emirates University, Al Ain, UAE</b> <i>Python Programs for Enhancing the Mathematical Problem Solving skills of Undergraduate Students</i>
11:15-11:30	Tea Break
11:30-12:15 Invited Talk	<b>Dr. Müslüm Arıcı, Kocaeli University, Turkey</b> <i>True Role of Phase Change Materials in Energy Saving in Buildings</i>
12:15-13:00 Invited Talk	<b>Prof. Rozaini Bin Roslan, ANNA Systems LLC, Russia</b> <i>Challenges in Fractional Derivatives</i>
13:00-14:30	Lunch Break
14:30-15:30 Keynote Talk	<b>Prof. Makinde OD, Stellenbosch University, South Africa</b> <i>Magneto-Nanofluid Convection Past a Convectively Heated Stretching/Shrinking Cylindrical Surface</i>
15:30-16:15 Invited Talk	<b>Dr. Salman Saleem, King Khalid University, Abha, Saudi Arabia</b> <i>Time Dependent Flow Problem Induced by a Rotating Cone</i>
16:15-16:30	Tea Break
16:30-17:15 Invited Talk	<b>Prof. B. Rushi Kumar, Vellore Institute of Technology, Vellore, India</b> <i>Applications of Numerical Methods to Fluid Flow and Heat Transfer</i>
17:15-18:15 Keynote Talk	<b>Prof. Lamberto Rondoni, Politecnico di Torino, Italy</b> <i>Reality and Probability: From Atoms to Bacteria and the Earth Climate</i>
18:15-18:45	Valediction

**Link 7****Day 1: 24-August-2022 (Live presentations from CUD)**

<b>Time (GST)</b>	<b>Speakers</b>
10:30-11:15 Invited Talk	<b>Prof. (COL) Dimple Chalishajar, Virginia Military Institute, USA</b> <i>Trajectory Controllability of Nonlinear Dynamical and Stochastic Systems: an Analytical and a Numerical Approach</i>
11:15-11:30	Tea Break
11:30-12:00 Invited Talk	<b>Dr. Maimouna Said Al Manthari, UTAS-Ibri, Oman</b> <i>Numerical Simulation of Vortex-Induced Vibration on Free and Forced Oscillation Cylinder Using OpenFoam Solvers at Low Reynolds Numbers</i>
12:00-12:30 Invited Talk	<b>Dr. Swapna S. Nair, Amity University, Dubai, UAE</b> <i>The Characteristic of Squeeze Film due to Impact of Couple Stress and MHD on Curved Annular Circular Plates</i>

12:30-13:00 Invited Talk	<b>Dr. Mani Sankar, UTAS-Ibri, Oman</b> <i>Buoyant Convection of Nanofluid in Finite Enclosures</i>
13:00-13:30 Invited Talk	<b>Prof. Qasem Al Mdallal, UAE University, Al Ain, UAE</b> <i>Analysis of the initial cross-flow past an oscillating cylinder with two degrees of freedom</i>
13:30-14:30	Lunch Break
15:30-16:15 Invited Talk	<b>Dr. J.C. Umavathi, Gulbarga University, Gulbarga, India</b> <i>Heterogeneous Carbon/Metallic Nanoparticles with Source/Sink: Micropolar Fluid</i>
16:15-16:30	Tea Break
16:30-17:00 Invited Talk	<b>Dr. V.J. Chakravarthy, AKASC, Chennai, India</b> <i>Prediction of Parkinson Diseases at Early Stage Through Fuzzy Logic with LSTM</i>
17:00-17:30 Invited Talk	<b>Prof. K. Karthikeyan, Vellore Institute of Technology, Vellore, India</b> <i>A Manufacturing Inventory Model for Delayed Deteriorating Items with Cubic Demand and Holding Cost</i>
17:30-18:00 Invited Talk	<b>Dr. M. Seenivasan, Annamalai University, India</b> <i>The Queueing Model with Multiple Working Vacation</i>