



**MANIPAL**  
ACADEMY of HIGHER EDUCATION  
(Institution of Eminence Deemed to be University)

## Department of Basic Medical Sciences

MAHE, Manipal

**ORGANIZES**

**CONFERENCE ON**

# **EXTENDED REALITY AND HEALTHCARE: NEW FRONTIERS**

21<sup>st</sup> & 22<sup>nd</sup> July 2023

**Venue:** Department of Basic Medical Sciences (DBMS), MMMC Building

**Pre-Conference Workshop**

## **Live Dissection of the Back with Therapy and Surgical Management of IVDP Enhanced by AR and VR Assets**

20<sup>th</sup> July 2023

**Venue:** Pre-Clinical Section, Ground Floor, MMMC Building

**CONVENER**

**DR. ULLAS KAMATH**

Head  
DBMS, MAHE, Manipal

**ORGANIZING CHAIRPERSONS**

**DR. SAMBIT DASH**

Division of Biochemistry  
DBMS, MAHE, Manipal

**DR. BINCY M GEORGE**

Coordinator, Division of Anatomy  
DBMS, MAHE, Manipal

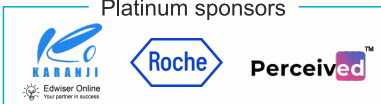
**ORGANIZING SECRETARY**

**MS. SNIGDHA MISHRA**

Division of Anatomy  
DBMS, MAHE, Manipal

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Venue: MCHP Pre-Clinical Section, Tower-1, Ground Floor, MMMC Building

Time	Activity	Speaker/s
9:00 AM - 9:30 AM	Registration & Breakfast	
9:30 AM - 10:00 AM	Inauguration	
10:00 AM - 10:30 AM	Applications of AR, VR and XR in Healthcare	Karanji Infotech Pvt Ltd
10.30 AM - 11:00 AM	Break	
11:00 AM - 1:00 PM	Cadaveric Dissection of Back	Division of Anatomy, DBMS
1:00 PM - 2:00 PM	Lunch	
2:00 PM - 2.30 PM	Discussion/Review - Anatomy	Division of Anatomy, DBMS & PerceivED
2:30 PM - 3:00 PM	Physiotherapy for Lumbar Disc Lesions	Ms Kavitha Vishal, Assistant Professor-Selection Grade, Dept. of Physiotherapy, MCHP, MAHE, Manipal & PerceivED
3:00 PM - 3:45 PM	Different Surgical Approaches of Lumbar Intervertebral Disc Prolapse Management	Dr Shyamsunder Bhat N, Professor & Head, Dept. of Orthopaedics, KMC, Manipal & PerceivED
3:45 PM - 4:15 PM	Remote Assistance using Hologens	Karanji Infotech Pvt Ltd
4:15 PM - 4:45 PM	Valedictory Ceremony	



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**CONFERENCE ON**  
**EXTENDED REALITY AND HEALTHCARE:**  
**NEW FRONTIERS**



**PROGRAM SCHEDULE**

**DAY 1** 21 July 2023

9:00 AM - 10:00 AM	<b>Registration &amp; Breakfast</b>		Ground Floor, Tower-1, MMMC Building
10:00 AM - 11:00 AM	<b>Inauguration &amp; Keynote address</b>		Sharada Hall, MCHP
	<b>Keynote address:</b> <b>Dr Mahesh Kappanyil</b> , Clinical Professor, Department of Pediatric Cardiology, Pediatric CMR Services, AIMS 3D Printing and XR Innovation Laboratory, Amrita Institute of Medical Sciences & Reserach Centre, Kerala <b>Topic:</b> <b>Extended Reality - Transforming Medicine and Healthcare through Precision Medicine &amp; Immersive Learning at a point-of-care XR Lab</b>		
11:00 AM - 11:15 AM	Break		
11:15 AM - 11:30 AM	<b>Industry Stall Inauguration</b>		
11:15 AM - 12:00 PM	<b>Current &amp; Future Trends in Digital Pathology</b>	<b>Dr Vidya M N</b> , Lead Consultant, Histopathology, Manipal Hospital, Bengaluru	3A Lecture Hall, 3 <sup>rd</sup> Floor, MMMC Building
12:00 PM - 12:45 PM	<b>Use of XR in Healthcare &amp; Ethical Concerns</b>	<b>Dr Supten Sarbadhikari</b> , Secretary, Task Force on AI for Healthcare, National Academy of Medical Sciences (India) & Distinguished Fellow, HITLAB	
12:45 PM - 1:15 PM	<b>Digital Pathology: Empowering Enhanced Patient Care</b>	<b>Dr Richie Jara-Lazaro</b> , Regional Pathologist, Medical & Scientific Affairs, Roche Diagnostics Asia Pacific, Singapore	
1:15 PM - 2:15 PM	Lunch		
2:15 PM - 3:00 PM	<b>Poster &amp; Oral Presentation</b>		
02:15 PM - 3:00 PM	<b>Integrating Extended Reality in Neurorehabilitation</b>	<b>Dr G K Balaji</b> , HOD Physiotherapy, Fortis Hospital, Mohali, Punjab	3A Lecture Hall, 3 <sup>rd</sup> Floor, MMMC Building
3:00 PM - 4:00 PM	<b>How AI can Enhance the Human Experience in Healthcare</b>	<b>Mr Shripad Dharmadhikari</b> , Global Director, Head of System Engineering, IGTS Mobile Surgery, Philips & <b>Mr Girish Kaushik</b> , Global Service Innovation Leader, PD MR DXR Services & Soutlions Delivery, Philips	
4:00 PM - 4:45 PM	<b>Panel Discussion: XR in Healthcare Education</b>	<b>Chairperson:</b> <b>Dr Shashikiran Umakanth</b> , Professor of Medicine & Medical Superintendent, Dr TMA Pai Hospital, Udupi <b>Panel members:</b> 1. Dr Keerthana Prasad 2. Dr Naveen Salins 3. Dr Supten Sarbadhikari 4. Dr Shrikanth Prabhu 5. Mr Uttam Pandey	
7:30 PM - 9:30 PM	<b>Banquet &amp; Entertainment</b>		

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**PROGRAM SCHEDULE**

**DAY 2** 22 July 2023

9:00 AM - 9:30 AM	Breakfast		
9:30 AM - 10:15 AM	<b>Deep Learning: A Silver Bullet for Diverse Problems in Healthcare</b>	<b>Dr Deepu Vijayasenan</b> , Associate Professor, NITK, Surathkal, Mangalore	3A Lecture Hall, 3 <sup>rd</sup> Floor, MMMC Building
10:15 AM - 11:30 AM	<b>Panel Discussion: XR &amp; Rehabilitation</b>	<b>Chairperson: Dr Arun Maiyya</b> , Dean, Professor, Dept. of Physiotherapy, MCHP, MAHE, Manipal <b>Panel members:</b> 1. Dr John Solomon 2. Dr Senthil Kumaran 3. Dr Balaji G K 4. Dr Prem V 5. Dr Adith Chinnaswami	
11:30 AM - 12:00 PM	<b>Extended Reality Applications – Instances of Improved Patient Care</b>	<b>Mr Prakash</b> , CEO & Founder, Karanji Infotech Private Limited, Mangaluru	
12:00 AM - 12:30 PM	<b>Application of Non-Camera Based Eye-Tracking for XR Devices in Neuroscience</b>	<b>Dr Ramesh S Ve</b> , Professor, MCHP, Manipal & Executive Director, Neura Sim Private Limited	
12:30 PM - 1:00 PM	<b>Integrating Virtual Reality with Medical Education – Accelerating the Adoption Curve</b>	<b>Dr Adith Chinnaswami</b> , COO & Co-Founder, MedisimVR, Chennai	
1:00 PM - 2:00 PM	Lunch		
2:00 PM - 2:45 PM	<b>Empowering Education &amp; Training using Immersive Technologies &amp; AI</b>	<b>Mr Uttam Kumar Pandey</b> , Founder & CEO & <b>Mr Dhruv Kumar Pandey</b> , Co-founder & CCO, Perceived Design Private Limited, Bengaluru	3A Lecture Hall, 3 <sup>rd</sup> Floor, MMMC Building
2:45 PM - 3:30 PM	<b>Keynote address: Rebooting the Brain: XR &amp; IoMT Based 'App'ification has begun!</b>	<b>Dr Sharan Srinivasan</b> , Chairman, NewRo Rehab & Director, Jain Institute of Movement Disorders & Stereotactic Neurosurgery (JIOMSN)	
3:30 PM - 4:15 PM	<b>Panel Discussion: XR &amp; Clinical Medicine</b>	<b>Chairperson: Dr Shyamsunder Bhat</b> , Professor & Head, Dept. of Orthopaedics, KMC Manipal <b>Panel members:</b> 1. Dr Sharan Srinivasan 2. Dr Chakrapani M 3. Dr Mahesh Kappanayil 4. Dr Ganesh Paramasivam 5. Dr Vimal Krishna	
4:30 PM - 5:00 PM	Valedictory Ceremony		