



# ARISE

Amrita Research &  
Innovation Symposium  
for Excellence

**2024** (Jan 7 to 10  
AMRITAPURI



## The Symposium

In line with our Chancellor's vision of fostering a world free from conflict, hunger, and disparities, ARISE 2024 aims to provide a platform for Amrita's top researchers to collaborate and initiate interdisciplinary research. Over 500 faculty members from our eight campuses have been selected to participate in ARISE 2024, where they will collectively devise strategic research visions for Amrita Vishwa Vidyapeetham.



## Grand Challenges

Our esteemed faculty members will actively contribute to designing the vision, strategies, initiatives, and programs for each focus area. These will serve as catalysts for innovative solutions to global challenges.



One Health



Information,  
Intelligence, &  
Immersion



Smart,  
Sustainable, &  
Resilient Cities &  
Communities



Ecosystem  
Restoration &  
Management



Education for  
Life: Knowledge,  
Awareness,  
Interconnectedness



Empowered  
Citizens &  
Organizations

# GRAND CHALLENGES

## 6 Pillars of ARISE

### One Health

Session A.1: Integrated Health & Wellbeing: Predictive, Personalised, and Preventive

Session A.2 : Food Security & Agricultural Technologies

### Information, Intelligence, & Immersion

Session B.1: Hyper-Connected Reality & Securing the Cyberspace

Session B.2 : Ubiquitous Artificial Intelligence

### Smart, Sustainable, & Resilient Cities & Communities

Session C.1 : Smart, Green Materials & Intelligent Manufacturing

Session C.2 : Quantum Science, Engineering, Computing and Technologies

### Ecosystem Restoration & Management

Session D.1: Climate Change & Disaster Resilience: Models, Technologies, & Solutions

Session D.2 : Ecosystem Restoration, Environmental Sustainability & Management: Measure, Map, & Monitor

### Education for Life: Knowledge, Awareness, Interconnectedness

Session E.1 : Value-based Education & Indic Studies: Cultivating Compassion and Inclusivity

Session E.2 : Educational Pedagogies & Emerging Technologies

### Empowered Citizens & Organizations

Session F.1: Sustainable Livelihood: Skills, Policy, Governance, Social Change

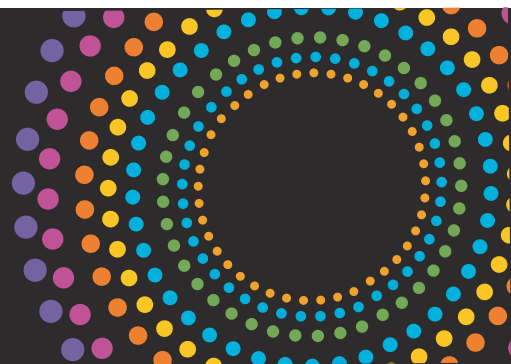
Session F.2 : Responsible Leadership, Innovative Partnerships, and Empowered Organizational Systems



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# AGENDA

**Jan 6<sup>th</sup> Saturday** Registration at Amritapuri Campus (Morning)  
& Mata Amritanandamayi Math Headquarters  
(Evening upon arrival from other campuses)

**Jan 7<sup>th</sup> Sunday** **07:30 - 08:45 am** Registration & Breakfast at Amritapuri Campus

## Inaugural Function

**09:00 - 10:10 am**

**09:00 - 09:05 am** Prayer

**09:05 - 09:10 am** **Welcome Address:** Dr. Maneesha Vinodini Ramesh,  
Provost - Strategic Initiatives, International, Research &  
Innovation, AI + X, Amrita Vishwa Vidyapeetham

**09:10 - 09:15 am** **Address by Guest of Honour:** Dr. Venu Govindaraju, Vice  
President for Research and Economic Development, SUNY  
Distinguished Professor, University at Buffalo, USA

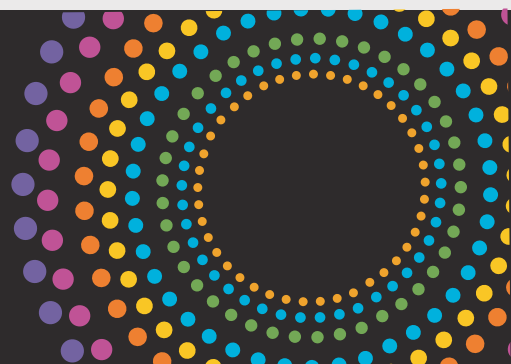
**09:15 - 09:45 am** **Inaugural Address:** Dr. Upendra Kumar Singh, Director  
General - Life Sciences, Defence Research and  
Development Organisation, Govt. of India - AI and  
Autonomous Systems: How they are impacting the world

**09:45 - 10:00 am** **Benedictory Address:** Swami Amritaswarupananda Puri,  
President, Amrita Vishwa Vidyapeetham

**10:00 - 10:05 am** **Felicitation Address:** Dr. Prem Kumar Nair, Provost,  
Medical Sciences, Amrita Vishwa Vidyapeetham

**10:05 - 10:10 am** **Vote of Thanks:** Dr. Balakrishnan Shankar, Dean, School  
of Engineering, Amritapuri Campus, Amrita Vishwa  
Vidyapeetham

Convocation Hall



# Day 1

Jan 7<sup>th</sup> Sunday | 10:10 am - 10:00 pm

|                     |   |                   |
|---------------------|---|-------------------|
| 10:10 - 10:50 am    | <p>Provost Round Table: <b>Research Pathway: National &amp; International Best Practices</b></p> <p><b>Dr. Venkat Rangan</b>, Vice Chancellor,<br/>Amrita Vishwa Vidyapeetham</p> <p><b>Dr. Venu Govindaraju</b>, Editor-in-Chief of the IEEE<br/>Biometrics Council Compendium</p> <p><b>Dr. Prem Kumar Nair</b>, Provost, Medical Sciences,<br/>Amrita Vishwa Vidyapeetham</p> <p><b>Dr. Maneesha Vinodini Ramesh</b>, Provost - Strategic<br/>Initiatives, Research &amp; Innovation, AI + X,<br/>Amrita Vishwa Vidyapeetham</p> | Convocation Hall  |
| 10:50 - 11:00 am    | <p><b>ARISE The pathway for Interdisciplinary Research &amp; Innovation</b></p> <p>Dr. Maneesha Vinodini Ramesh, Provost - Strategic<br/>Initiatives, Research &amp; Innovation, AI + X,<br/>Amrita Vishwa Vidyapeetham</p>   | Convocation Hall  |
| 11:00 - 11:30 am    | Tea Break   |                   |
| 11:30 am - 12:15 pm | <p><b>Future of Circular Economy: A Sustainability and Digitalisation Approach</b></p> <p>Dr. Kannan Govindan Executive Editor, Journal of Cleaner<br/>Production; Director, CSORSC, Business School,<br/>The University of Adelaide, Australia</p>   | Acharya Hall      |
|                     | <p><b>Generative Artificial Intelligence, Opportunities and Challenges</b></p> <p>Dr. Yogesh Dwivedi, Editor-in-Chief, International Journal<br/>of Information Management,<br/>Co-Director of Research, School of Management,<br/>Swansea University, UK</p>   | Amriteshwari Hall |
|                     | <p><b>DST's Clean Energy Research Initiative</b></p> <p>Dr. Ranjith Krishna Pai, Scientist &amp; Senior Director,<br/>CEST Division, Department of Science and Technology,<br/>Govt. of India</p>   | Convocation Hall  |

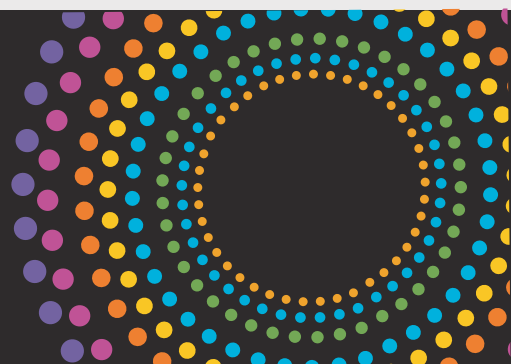
Parallel  
Keynote Sessions



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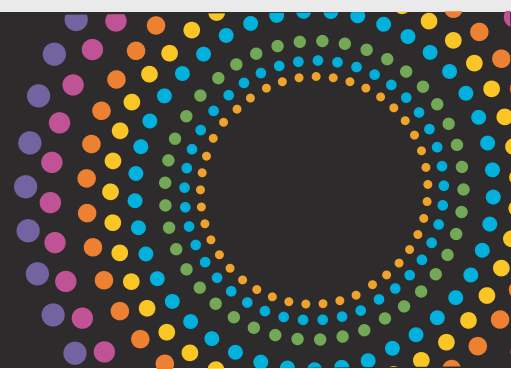
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| 12:25 pm - 01:10 pm | Parallel Keynote Sessions           | Interdisciplinarity efforts at Los Alamos National Laboratory, USA<br>Dr. Chandra Pillai, Physicist (Retd.), Los Alamos National Laboratory, USA            | Acharya Hall                                 |
|                     |                                     | Practical and Extensible Decentralised Identity Management<br>Dr. Salil Kanhere, Editor-in-Chief, Ad Hoc Networks Journal; Professor, UNSW Sydney Australia | Amriteshwari Hall                            |
|                     |                                     | Innovations Driving the Future of Mobility<br>Dr. Shankar Venugopal, Vice President, Mahindra & Mahindra, India   | Convocation Hall                             |
| 01:10 - 02:30 pm    |                                     | Networking Lunch  |  |
| 02:30 pm - 04:00 pm | Parallel Sessions Thematic Clusters | Grand Challenge A: <b>One Health</b>   Session A.1: Integrated Health & Well-Being: Predictive, Personalised, and Preventive                                | Convocation Hall                             |
|                     |                                     | Grand Challenge B: <b>Information, Intelligence, &amp; Immersion</b><br>Session B.1: Hyper-Connected Reality & Securing the Cyberspace                      | Annapoorna Hall                              |
|                     |                                     | Grand Challenge C: <b>Smart, Sustainable &amp; Resilient Cities &amp; Communities</b>   Session C.1: Smart, Green Materials & Intelligent Manufacturing     | Room S103B<br>(1st Floor - College Building) |
| 04:00 - 04:30 pm    |                                     | Tea Break   |  |
| 04:30 pm - 06:00 pm | Parallel Sessions Thematic Clusters | Grand Challenge A: <b>One Health</b>   Session A.1: Integrated Health & Well-Being: Predictive, Personalised, and Preventive                                | Convocation Hall                             |
|                     |                                     | Grand Challenge B: <b>Information, Intelligence, &amp; Immersion</b><br>Session B.1: Hyper-Connected Reality & Securing the Cyberspace                      | Annapoorna Hall                              |
|                     |                                     | Grand Challenge C: <b>Smart, Sustainable &amp; Resilient Cities &amp; Communities</b>   Session C.1: Smart, Green Materials & Intelligent Manufacturing     | Room S103B<br>(1st Floor - College Building) |
| 06:00 - 06:15 pm    |                                     | Tea Break   |  |



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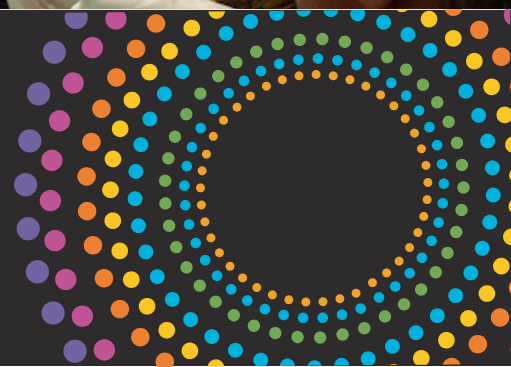
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| 06:15 pm -<br>07:45 pm | Parallel Sessions<br>Workshops | <b>Workshop 1:</b> 'Fostering International Collaborations/<br>Joint Initiatives & Programs' by Center for International<br>Programs   | Room S103B<br>(1st Floor - College<br>Building) |
|                        |                                | <b>Workshop 2:</b> 'Fostering Industry Collaborations/Joint<br>Initiatives & Programs' by the Directorate of Corporate &<br>Industry Relations   | Room S102B<br>(1st Floor - College<br>Building) |
|                        |                                | <b>Workshop 3:</b> 'Converting Ideas to IP (Intellectual<br>Property): Patent, Copyright, and Trademark Registration<br>Processes at Amrita' by Ms.Salma Jetha, Director,<br>Patents & IPs, Amrita Vishwa Vidyapeetham | Room N103<br>(1st Floor - College<br>Building)  |
| 06:00 - 08:30 pm       |                                | <b>Exhibition &amp; Poster Session</b>   | Exhibition Hall                                 |
| 08:30 - 10:00 pm       |                                | Networking Dinner at Amritapuri Campus   |   |



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# Day 2

Jan 8<sup>th</sup> Monday | 07:00 am - 10:00 pm

|                     |   |  |
|---------------------|---|--|
| 07.00 - 08.15 am    | Breakfast at Amritapuri Campus  |  |
| 08:30 - 09:30 am    | <b>Keynote Session: Anusandhan National Research Foundation: A Transformative step for India to achieve Global R&amp;D Leadership</b><br>Dr. Akhilesh Gupta, Secretary, Science and Engineering Research Board (SERB), Govt. of India   | Convocation Hall                             |
| 09:30 - 10:30 am    | <b>Round Table Discussion / Panel Discussion - Journal Desk Rejections and Publishing in High Quality Journals</b><br><b>Dr. Venu Govindaraju</b> , Editor-in-Chief of the IEEE Biometrics Council Compendium<br><b>Dr. Kannan Govindan</b> , Editor-in-Chief of the International Journal of Business Performance and Supply Chain Modelling (Inderscience), and the International Journal of Advanced Operations Management (Inderscience)<br><b>Dr. Salil Kanhere</b> , Editor-in-Chief of the Ad Hoc Networks Journal<br><b>Dr. Yogesh K. Dwivedi</b> , Associate Editor of the Journal of Business Research, European Journal of Marketing, Government Information Quarterly, and International Journal of Electronic Government Research; Senior Editor of the Journal of Electronic Commerce Research.<br><b>Dr. Bruce Malamud</b> , Executive Editor of Natural Hazards & Earth System Sciences | Convocation Hall                             |
| 10:30 - 10:50 am    | Tea Break   |  |
| 10:50 am - 12:20 pm | <b>Grand Challenge D: Ecosystem Restoration &amp; Management</b><br>Session D.1: Climate Change & Disaster Resilience: Models, Technologies, & Solutions  | Convocation Hall                             |
|                     | <b>Grand Challenge E: Education for Life: Knowledge, Awareness, Interconnectedness</b>   Session E.1: Value-based Education & Indic Studies: Cultivating Compassion and Inclusivity   | Annapoorna Hall                              |
|                     | <b>Grand Challenge F: Empowered Citizens &amp; Organizations</b><br>Session F.1: Sustainable Livelihood: Skills, Policy, Governance, Social Change  | Room S103B<br>(1st Floor - College Building) |

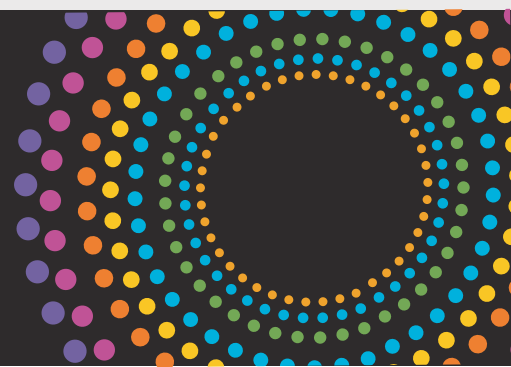
Parallel Sessions  
Thematic Clusters



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|---------------------|---|---|--|
| 12:20 - 01:30 pm    | Networking Lunch  |   |  |
| 01:30 pm - 03:00 pm | Parallel Sessions<br>Thematic Clusters                                      | <b>Grand Challenge D: Ecosystem Restoration &amp; Management</b><br>Session D.1: Climate Change & Disaster Resilience: Models, Technologies, & Solutions                            | Convocation Hall                             |
|                     |   | <b>Grand Challenge E: Education for Life: Knowledge, Awareness, Interconnectedness</b>   Session E.1: Value-based Education & Indic Studies: Cultivating Compassion and Inclusivity | Annapoorna Hall                              |
|                     |   | <b>Grand Challenge F: Empowered Citizens &amp; Organizations</b><br>Session F.1: Sustainable Livelihood: Skills, Policy, Governance, Social Change                                  | Room S103B<br>(1st Floor - College Building) |
| 03:00 - 03:30 pm    | Moving to Mata Amritanandamayi Math Headquarters                            |   |  |
| 03:30 - 06:00 pm    | Amrita Innovation & Research Awards (AIRA)                                  | Main Hall, MAM Headquarters   |  |
| 06:00 - 08:30 pm    | Chancellor's Program at Mata Amritanandamayi Math Headquarters              |   |  |
| 08:00 - 10:00 pm    | Networking Dinner at Mata Amritanandamayi Math Headquarters (Sahyadri Hall) |   |  |

*"All living being in creation are interdependent. The rhythm of Nature depends upon humanity. It is necessary to maintain the rhythm of the mind and body for the sake of our health and lifespan, for the sake of Humankind and Nature."*



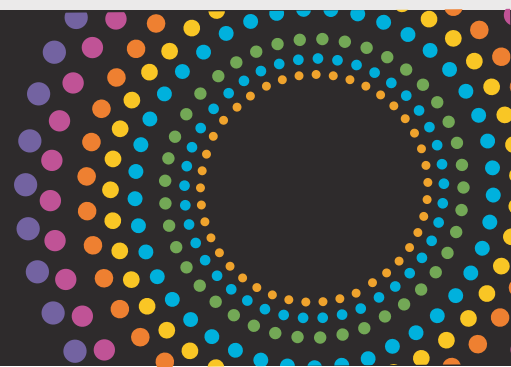
**Sri Mata Amritanandamayi Devi (Amma)**  
Chancellor, Amrita Vishwa Vidyapeetham



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AIRA 2024

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Jan 8<sup>th</sup> Monday | 03:30 - 06:00 pm

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**In the Esteemed Presence of** Sri Mata Amritanandamayi Devi, AMMA,  
Chancellor, Amrita Vishwa Vidyapeetham

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**Distinguished Guest of Honour:** Sri. K Sanjay Murthy, Secretary, Higher  
Education, Ministry of Education, Govt. of India

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**Distinguished Guest of Honour:** Dr. Akhilesh Gupta, Secretary, Science and  
Engineering Research Board, (SERB), Govt. of India

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Swami Amritaswarupananda Puri, President, Amrita Vishwa Vidyapeetham

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Dr. Venkat Rangan, Vice Chancellor, Amrita Vishwa Vidyapeetham

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Dr. Maneesha Vinodini Ramesh, Provost - Strategic Initiatives, International,  
Research & Innovation, AI + X, Amrita Vishwa Vidyapeetham

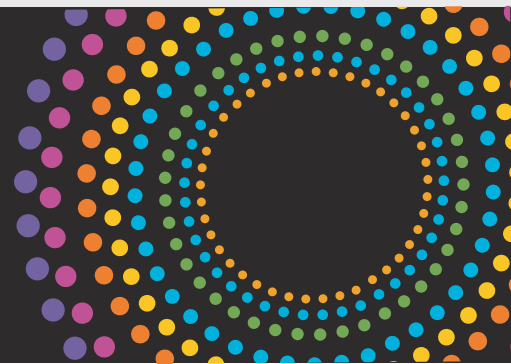
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# Day 3

Jan 9<sup>th</sup> Tuesday | 07:00 am - 10:00 pm

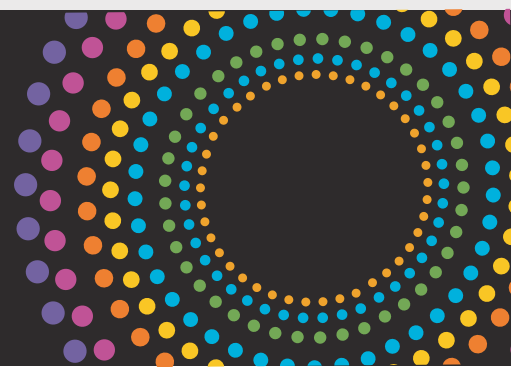
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| 07:00 - 08:15 am    | Breakfast at Amritapuri Campus  |   |
| 08:30 am - 09:30 am | Parallel<br>Keynote Sessions  | Convergence of AI and disciplines to solve societal challenges: Dr. Venu Govindaraju, Vice President for Research and Economic Development, SUNY Distinguished Professor, University at Buffalo, USA                  |
|                     |   | Harnessing Geospatial Intelligence for Global Challenges: Dr. Tarek Rashed, Director of the GIS Program, Washington College, Maryland, USA  |
|                     |   | Green Data Analytics of Supercomputing from Massive Sensor Networks: Does Workload Distribution Matter? Prof. Ram Ramesh, Professor, Management Science and Systems, School of Management, University of Buffalo, USA |
| 09:40 am - 11:10 am | Parallel Sessions<br>Thematic Clusters  | Grand Challenge A: <b>One Health</b>   Session A.2: Food Security & Agricultural Technologies   |
|                     |   | Grand Challenge B: <b>Information, Intelligence, &amp; Immersion</b>   Session B.2: Ubiquitous Artificial Intelligence  |
|                     |   | Grand Challenge C: <b>Smart, Sustainable, &amp; Resilient Cities &amp; Communities</b>   Session C.2: Quantum computing Science, Engineering, Computing and Technologies  |
| 11:10 - 11:30 am    | Tea Break   |   |
| 11:30 - 12:15 pm    | Keynote Session<br>Spirituality in the Realm of Research<br>Swami Shubhamritananda Puri,<br>Mata Amritanandamayi Math | Convocation Hall  |
| 12:15 - 01:15 pm    | AIRA Awards   | Convocation Hall  |
|                     | Exhibition & Poster Session   | Exhibition Hall   |
| 01:00 - 02:30 pm    | Networking Lunch  |   |



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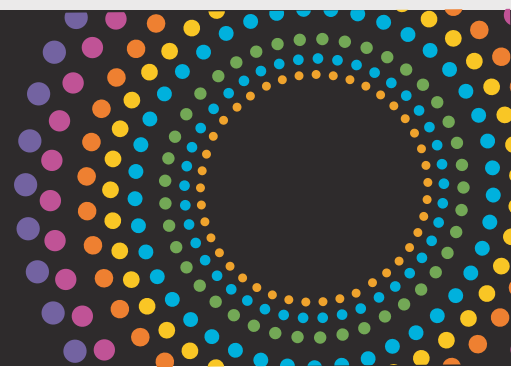
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| 02:30 pm -<br>04:00 pm | Parallel Sessions<br>Thematic Clusters | <b>Grand Challenge A: One Health</b>   Session A.2: Food Security & Agricultural Technologies   | Convocation Hall                             |
|                        |  | <b>Grand Challenge B: Information, Intelligence, &amp; Immersion</b>   Session B.2: Ubiquitous Artificial Intelligence  | Annapoorna Hall                              |
|                        |  | <b>Grand Challenge C: Smart, Sustainable, &amp; Resilient Cities &amp; Communities</b>   Session C.2: Quantum computing Science, Engineering, Computing and Technologies  | Room S103B<br>(1st Floor - College Building) |
| 04:00 - 04:30 pm       |  | Tea Break   |  |
| 04:30 pm -<br>05:15 pm | Parallel<br>Keynote Sessions           | <b>National Mission on Interdisciplinary Cyber Physical Systems</b> Dr. Ekta Kapoor, Head of Scientific Division, Frontier and Futuristic Technologies Division, Department of Science & Technology, Govt. of India                       | Annapoorna Hall<br>(Online Session)          |
|                        |  | <b>Digital Revival of the Knowledge Heritage of India</b> Mr. Dinesh Katre, Ex Senior Director & Head of Department & Founder, Human-Centred Design & Computing Group at C-DAC  | Amriteshwari Hall                            |
|                        |  | <b>Grand Challenges to Enduring Solutions - Harnessing Innovation and Research</b> Dr. Ashok Murty, Managing Partner, Erkadi systems, India   | Acharya Hall                                 |
| 05:25 pm -<br>06:55 pm | Parallel Sessions<br>Workshops         | <b>Workshop 4:</b> 'Integrating Consulting with Academic Career' by Prof. Karen Sneha Moawad, Founder & CEO, Hummingbird Associates, LLC, USA   | Room S102B<br>(1st Floor - College Building) |
|                        |  | <b>Workshop 5:</b> 'Qualitative & Quantitative Data Visualisation' by Dr. Bruce Malamud, Director & Wilson Chair of Hazard and Risk, IHRR, Durham University, UK  | Annapoorna Hall                              |
|                        |  | <b>Workshop 6:</b> 'CSR Grant Proposal Writing' by Mr. Vivek Srivastava, ScoreLife, India   | Room S103B<br>(1st Floor - College Building) |
|                        |  | <b>Workshop 7:</b> 'The interdisciplinarity of fostering entrepreneurship, product development, and startup generation' by Mr. Suresh Jayaraju, Venture Builder, CEO-NASSCOM Startups & Mr. Raghuttama Rao, CEO at GDC, IIT Madras, India | Amriteshwari Hall                            |



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|------------------------|----------------------|---|------------------|
| 07:00 pm -<br>08:00 pm | Parallel<br>Sessions | AIRA Awards   | Convocation Hall |
|                        |                      | Exhibition & Poster Session   | Exhibition Hall  |
|                        |                      | Keynote Sessions<br>Responsible Generative AI<br>Dr. Cheranellore Vasudevan, Senior Technical Staff member and AI Automation Leader, IBM Master Inventor, IBM | Acharya Hall     |
| 08:00 - 10:00 pm       |                      | Gala Dinner & Cultural Program at Amritapuri Campus   |                  |

## Day 4

Jan 10<sup>th</sup> Wednesday | 07:00 am - 10:00 pm

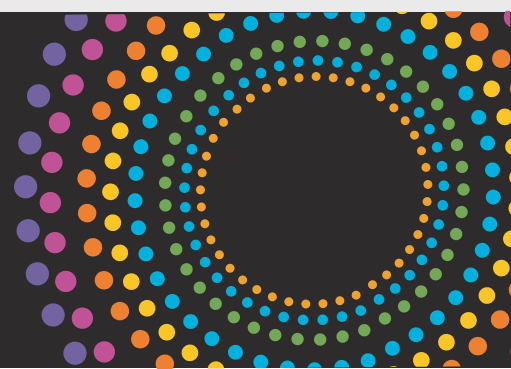
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|------------------------|--------------------------------|---|--|
| 07:00 - 08:15 am       |                                | Breakfast at Amritapuri Campus  |  |
| 08:30 - 09:00 am       |                                | Research Ecosystem & Initiatives at Amrita by Office of the Provost, Amrita Vishwa Vidyapeetham   | Convocation Hall                             |
| 09:10 am -<br>10:40 am | Parallel Sessions<br>Workshops | Workshop 8: 'Publishing workshop from a journal editor's perspective' - Dr. Bruce Malamud, Director & Wilson Chair of Hazard and Risk, Institute of Hazard, Risk and Resilience (IHRR), Durham University | Annapoorna Hall                              |
|                        |                                | Workshop 9: 'CSR Grant Proposal Writing' - Mr. Vivek Srivastava, ScoreLife  | Room S103B<br>(1st Floor - College Building) |
|                        |                                | Workshop 10: 'Introduction to Systems Thinking for Research and Complex Problem Solving' - Dr. Tarek Rashed, Director of the GIS Program, Washington College, Maryland, USA                               | Amiteshwari Hall                             |



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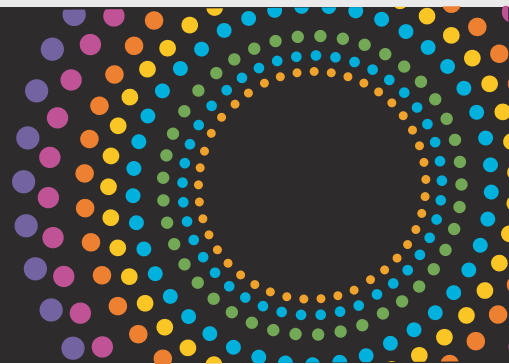
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| 10:40 - 11:00 am    | Tea Break                              |  |  |
| 11:00 am - 12:30 pm | Parallel Sessions<br>Thematic Clusters | <b>Grand Challenge D: Ecosystem Restoration &amp; Management</b> Session D.2: Ecosystem Restoration, Environmental Sustainability & Management: Measure, Map, & Monitor        | Convocation Hall                             |
|                     |  | <b>Grand Challenge E: Education for Life: Knowledge, Awareness, Interconnectedness</b>   Session E.2: Educational Pedagogies, Emerging Technologies & Indian Knowledge Systems | Annapoorna Hall                              |
|                     |  | <b>Grand Challenge F: Empowered Citizens &amp; Organizations</b> Session F.2: Responsible Leadership, Innovative Partnerships, and Empowered Organizational Systems            | Room S103B<br>(1st Floor - College Building) |
| 02:30 - 02:00 pm    | Networking Lunch                       |  |  |
| 02:00 pm - 03:30 pm | Parallel Sessions<br>Thematic Clusters | <b>Grand Challenge D: Ecosystem Restoration &amp; Management</b> Session D.2: Ecosystem Restoration, Environmental Sustainability & Management: Measure, Map, & Monitor        | Convocation Hall                             |
|                     |  | <b>Grand Challenge E: Education for Life: Knowledge, Awareness, Interconnectedness</b>   Session E.2: Educational Pedagogies, Emerging Technologies & Indian Knowledge Systems | Annapoorna Hall                              |
|                     |  | <b>Grand Challenge F: Empowered Citizens &amp; Organizations</b> Session F.2: Responsible Leadership, Innovative Partnerships, and Empowered Organizational Systems            | Room S103B<br>(1st Floor - College Building) |
| 03:30 - 04:00 pm    | Tea Break                              |  |  |



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|                        |                                |   |  |
|------------------------|--------------------------------|---|--|
| 04:00 pm -<br>05:30 pm | Parallel Sessions<br>Workshops | <b>Workshop 11:</b> 'Consultancy Services and Projects' by Dr. Sasangan Ramanathan, Dean & HoS, School of Engineering, Coimbatore Campus, Amrita Vishwa Vidyapeetham                | Room S103B<br>(1st Floor - College Building) |
|                        |                                | <b>Workshop 12:</b> 'Patent Harvesting' by Dr. Krishnasree Achuthan, Director, Cyber Security & Director, TBI, Amrita Vishwa Vidyapeetham   | Annapoorna Hall                              |
|                        |                                | <b>Workshop 13:</b> 'Compassion Driven Research' by Dr. Maneesha Ramesh & Mr. Gopal Krishna, Founding Director of Syntegral Systems and Solutions Pvt. Ltd                          | Room S102B<br>(1st Floor - College Building) |
|                        |                                | <b>Workshop 14:</b> 'Introduction to Systems Thinking for Research and Complex Problem Solving' by Dr. Tarek Rashed, Director of the GIS Program, Washington College, Maryland, USA | Amriteshwari Hall                            |
| 05:40 - 07.10 pm       |                                | <b>Workshop 15:</b> 'Research Dissemination & Research Strategy'  | Convocation Hall                             |
| 07:10 - 08:10 pm       |                                | Valedictory Function  | Convocation Hall                             |
| 08:10 - 10:00 pm       |                                | Cultural Program & Networking Dinner at Amritapuri Campus   |  |

