

**Program Schedule – CMSAE 2021-Virtual Conference**  
**"Conference on Mathematical Sciences and Applications in Engineering"**  
**9<sup>th</sup> & 10<sup>th</sup> December, 2021**

**Conference Website URL - <https://hindustanuniv.ac.in/CMSAE-2021/index.php>**

**Day 1 - December 9, 2021 (Thursday)**

**Link to join the meeting: <http://shorturl.at/gmpP3>**

**Inaugural Session (9:30 am - 10:00 am)**

**Session 1**  
**(Inaugural talk)**  
**(10:00 am - 10:45 am)**

Speaker: Dr. Sanjeeva Perera  
 Professor and Head, Department of Mathematics, University of Colombo, Sri Lanka  
 Title: Challenges in Modelling Infectious Disease Dynamics

**10:45 am -11:00 am (Break)**

**Paper Presentations**  
**(11:00 am - 01:00 pm)**

**1:00 pm -2:00 pm (Lunch Break)**

**Session 2**  
**(2:00 pm - 2:45 pm)**

Speaker: Dr. Roozbeh Hazrat  
 Professor, Centre for Research in Mathematics and Data Science,  
 Western Sydney University, Australia  
 Title: Leavitt path algebras

**Session 3**  
**(2:45 pm - 3:30 pm)**

Speaker: Prof. Rodrigo Weber dos Santos  
 Department of Computer Science, Universidade Federal de Juiz de Fora (UFJF), Brazil  
 Title: Mathematical models of cardiac perfusion and myocardial edema based on formulations for porous-media

**Day 2 - December 10, 2021 (Friday)**

**Link to join the meeting: <http://shorturl.at/aotxF>**

**Session 4**  
**(09:00 am - 09:45 am)**

Speaker: Dr. Novi H. Bong  
 Asst. Professor, Department of Mathematics, University of Delaware, Newark, USA  
 Title: On the Threshold Dimension and Threshold Strong Dimension of a Graph

**Session 5**  
**(09:45 am - 10:30 am)**

Speaker: Dr. Rama Bhargava  
 Professor, Department of Mathematics, IIT Roorkee  
 Title: CFD modelling and engineering applications

**10:30 am - 10:45 am (Break)**

**Session 6**  
**(10:45 am - 11:30 am)**

Speaker: Dr. S. Ponnusamy  
 Professor, Department of Mathematics, IIT Madras  
 Title: Planar Harmonic mappings

**Paper Presentations**  
**(11:30 am - 12:30 pm)**

**12:30 pm - 1:30 pm (Break)**

**Session 7**  
**(1:30 pm - 2:15 pm)**

Speaker: Dr. Sabyasachi Pani  
 Associate Professor, Department of Mathematics, IIT Bhubaneswar  
 Title: Generalizations of Variational Inequalities and some results on Vector Mixed Variational-like Inequality under Densely  $(\eta, f) - C$  Pseudomonotone Mappings.

**Session 8**  
**(2:15 pm - 3:00 pm)**

Speaker: Dr. Arvind Ayer  
 Associate Professor, Department of Mathematics, IISc Bangalore  
 Title: Counting and Tilings

**Valedictory and Feedback (3:00 pm - 3:30 pm)**

**All Timings are according to Indian Standard Time**