



**IEEE 3rd Conference on
Norbert Wiener in the 21st Century
Being Human In a Global Village**

📍 CEG Campus, Anna University, Chennai, INDIA.



<http://21stcenturywiener.org/>

IEEE Conference Number 48944

Thursday, 22 July 2021:

Virtual Conference Inauguration

19.00 PM – 21.00 PM

Dr. (Ms) L Suganthi, Dean, CEG Campus, Anna University, Chennai.

Prof. Greg Adamson, Program Chair.

IEEE SSIT Norbert Wiener Award

Prof. T V Gopal, Conference Chair.

Prof. T Srinivas, Planning Chair.



Opening Address

Mr. Narayana Murthy

Indian IT industrialist and the Co-
Founder of Infosys

**“What can young Indians learn
from Norbert Wiener?”**



Opening Keynote Speaker

Prof. K S Narendra

Harold W. Cheel Research Professor
Emeritus of Electrical Engineering
and
Director, Center for Systems Science
Yale university, USA.

**Brains or Machines: Who Will Be In
Control?
A Look Into The Crystal Ball**

Friday, 23 July 2021					
9.30 AM - 10.15 AM	11.30 AM - 13.00 PM		15.00 PM - 16.30 PM	16.30 PM - 18.00 PM	18.00 PM - 18.45 PM
<p><u>Some steps for India to move towards 100% Renewable Energy</u> Prof Ashok Jhunjunwala Department of Electrical Engineering, IIT Madras.</p>	(1-6) papers		<p><u>Special Session 1: Norbert Wiener in India</u> Dr. Raghu Krishnapuram Robert Bosch Centre for Cyber-Physical Systems, Indian Institute of Science, Bengaluru (IISc).</p> <p>Prof. Dipshikha Chakravorty Department of Microbiology and Cell Biology, Indian Institute of Science Bangalore.</p> <p>Dr. Swagatam.Das Associate Professor, ECE, Indian Statistical Institute, Kolkata</p> <p>M G P L Narayana Formerly Vice President & Chief Scientist, Tata Consultancy Services [TCS].</p>	(7-12) papers	<p><u>Design, Interpretability, and Explainability of Models in the Environment of Granular Computing and Federated Learning</u> Dr. Witold Pedrycz Canada Research Chair, IEEE Fellow University of Alberta, Canada.</p>
<p>10.15 AM – 11.00AM</p> <p><u>Data-driven decision making via the scenario approach</u> Dr. Simone Garatti Associate Professor, Politecnico di Milano, Italy.</p>			<p>18.45 PM – 19.30 PM</p> <p><u>The Brain-Machine Interface: Nanotechnology and Cybernetics 60 Years After Norbert Wiener</u> Dr Russell Andrews Nanotechnology & Smart Systems NASA Ames Research Center, Moffett Field, CA, USA.</p>		
Saturday, 24 July 2021					
9.30 AM - 10.00 AM	11.30 AM - 13.00 PM		15.00 PM - 16.30 PM	16.30 PM - 17.00 PM	18.00 PM - 19.30 PM
<p><u>Cybercrime in Asia</u> Dr. Laurie Lau Chairman, APATAS, Hong Kong.</p>	(13-18) papers		<p><u>"Healthcare 2030" - Panel Discussion</u> Chair: Dr. K Ganapathy Formerly Adjunct Professor at IITM and Anna University, Chennai, India. Tamilnadu Dr MGR Medical University in Feb 2021 conferred the "Distinguished Professorship for Life" award.</p>	<p>Dr. H K Anasuya Devi Member, IEEE SSIT Board of Governors</p>	<p><u>Special Session 2: Cybernetics and Visual Arts</u> Rafael Lozano-Hemmer Professional Media Artist, Montréal, Canada</p> <p>Evelin Stermitz Professional Media Artist & Foundress of ArtFem.TV, Vienna, Austria</p>

10.00 AM – 10.30 AM					Dr. Madhan Karky Lyricist, Screenwriter, Researcher, Chennai, India
<u>Relevance of Community Networks for meaningful sustainable connectivity in the last mile</u> Dr. Sarbani Banerjee Belur Senior Project Research Scientist, Department of Electrical Engineering, IIT Bombay.			Arjun Rajagopalan Trustee and Advisor (Formerly Medical Director & Head, Department of Surgery: 1994 – 2016) Sundaram Medical Foundation, Chennai, India	17.00 PM – 17.30 PM	Zach Pearl MFA, Media Arts Curator & PhD Candidate, University of Waterloo, Toronto, Canada
			Luis Kun Distinguished Professor Emeritus of National Security Affairs William Perry – Center for Hemispheric Defense Studies-National Defense University, USA	<u>Norbert Wiener's India Connections: A Tour through the Archive</u> Dr. Heather Love Assistant Professor, University of Waterloo, Canada.	
10.30 AM - 11.00 AM				17.30 PM -18.00 PM	
<u>Cybernetics of cities and towns: Digital twins and research infrastructures in Australia</u> Dr Michael Rigby Faculty of Architecture, Building and Planning, Acting Deputy Director at the Australian Urban Research Infrastructure Network (AURIN), University of Melbourne, Australia.			Russell Andrews Medical Advisor, Nanotechnology and Smart Systems, National Aeronautics and Space Administration (NASA) Ames Research Center.	<u>Prolegomena to a Critique of Cybernetic Reason</u> Dr Luis Homem Center for Philosophy of Sciences of the University of Lisbon (CFCUL), Portugal.	

Sunday, 25 July 2021

9.30 AM - 10.30 AM	11.30 AM - 13.00 PM		15.00 PM - 16.30 PM	16.30 PM - 17.00 PM	18.00 PM – 18.45 PM
(19-21) papers	<u>Special Session 3: Information Theory and Cybernetics</u>		<u>Special Session 4: Geopolitics & Internet Governance</u> Mr. Samiran Gupta Head of India for The Internet Corporation for Assigned Names and Numbers (ICANN).	<u>The research method of Norbert Wiener</u> Prof. Greg Adamson Associate Professor and Enterprise, School of	<u>DARPA's ADAPTER Program: Applying the ELSI Approach to a Semi-Autonomous Complex Socio-Technical System</u> Dr. Katina Michael Director, Centre for Engineering, Policy and Society, Arizona State

	<p>Dr. Om Parkash Professor, Guru Nanak Dev University, Amritsar.</p>		<p>Computing and Information Systems, University of Melbourne, Parkville, VIC, Australia.</p>	<p>University, USA & Senior Editor - IEEE Consumer Electronic Magazine.</p>
<p>10.30 AM – 11.00 AM</p>		<p>Raymond Selorm Mamattah Founder and President, E-Governance and Internet Governance Foundation for Africa (EGIGFA), EGIGFA is the convener of Ghana School on Internet Governance (GhanaSIG).</p>		
<p><u>Solving Problems by Artificial Neural Network</u> Prof. Junzo Watada Professor of Emeritus, Waseda University, Japan.</p>	<p>Prof. Bal Kishan Dass Department of Mathematics, University of Delhi.</p> <p>Dr. R.P. Singh Research Advisor & Former Associate Professor, Department of Mathematics, Lajpat Rai Post Graduate College, Sahibabad, Ghaziabad.</p>	<p>Latha Reddy Co-Chair of the Global Commission on the Stability of Cyberspace.</p> <p>Jyoti Panday Asia Policy Fellow, the Electronic Frontier Foundation (EFF).</p> <p>Michael Nelson Senior Fellow, Technology and International Affairs Program, Carnegie Endowment for International Peace.</p>	<p>17.00 PM – 17.30 PM</p> <p><u>Lee - Wiener Statistical Theory of Information</u> A Quick Review by the Conference Chair</p> <p>17.30 PM – 18.00PM</p> <p><u>Wiener + Macy Meetings + AI = Piloting a New Course</u> Prof. Paul Pangaro Professor of Practice, Human Computer Interaction Institute, Carnegie Mellon University.</p>	<p>18.45 PM – 19.30 PM</p> <p>Valedictory Function</p>  <p>Dr. Moshe Y. Vardi Professor of Computer Science, Rice University, USA.</p> <p><u>Ethics Washing in AI On 25 July 2021</u></p>

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