



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

School of Mechanical Engineering

Cordially invites you for the inauguration of

**Second Virtual International Conference on
Robotics, Intelligent Automation and Control Technologies**

RIACT 2021

SEPTEMBER 23 - 25, 2020

Chief Guest



Prof. Alamgir Hossain

Vice President & Professor of Artificial Intelligence
Cambodia University of Technology & Science (CamTech), Cambodia

Dr.G.Viswanathan

Founder & Chancellor, VIT
Presides

Dr.Shankar Viswanathan
Vice President

Ms. Kadhambari S Viswanathan
Assistant Vice President

Dr. Rambabu Kodali
Vice Chancellor

Dr.V.S.Kanchana Bhaaskaran
Pro-Vice Chancellor

VIT - A place to learn; A chance to grow



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Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)
CHENNAI

School of Mechanical Engineering (SMEC)
Second Virtual International Conference on
Robotics, Intelligent Automation and Control Technologies
RIACT 2021
SEPTEMBER 23 - 25, 2020

INAUGURAL SESSION SCHEDULE FOR September 23, 2021

Time	Program	Name of the Speaker
16.00 – 16.05	Welcome address About the conference	Professor Michael Short Co-Convener - RIACT 2021 Professor, School of Computing, Engineering and Digital Technologies, Teesside University, UK
16.05 – 16.10	About the School	Dr.R.Sivakumar Dean & Professor, SMEC VIT Chennai
16.10 – 16.15	Felicitation address	Dr.V.S.Kanchana Bhaaskaran Pro Vice Chancellor VIT Chennai
16.15 – 16.25	Address by Chief guest	Prof. Alamgir Hossain Vice President & Professor of Artificial Intelligence Cambodia University of Technology & Science (CamTech), Cambodia
16.25 – 16.40* (Yet to get Final Approval)	Address by Guest of Honour	Dr. G. Viswanathan Founder & Chancellor, VIT
16.40 – 16.45	Vote of Thanks	Dr. Arockia Selvakumar A Convener - RIACT 2021 Associate Professor (Senior), SMEC VIT Chennai

Program

Keynote Session 1

Time: 4.45 PM, 23rd September 2021

Topic:

**Engineering Challenges of the AI-Enabled Automation and Process Optimisation
for Healthcare and Business Domain**

By



Professor Alamgir Hossain

**Vice President & Professor of Artificial Intelligence
Cambodia University of Technology & Science (CamTech), Cambodia**

Keynote Session 2

Time: 5.30 PM, 23rd September 2021

Topic:

Upcoming future of robotics in protected horticulture

By



ing. EJ (Erik) Pekkeriet

**Programme Manager Agro Food Robotics, Wageningen University &
Research, Netherlands**

Keynote Session 3

Time: 6.30 PM, 23rd September 2021

Topic:

Intelligent Systems: From Smart Manufacturing and Network Perspectives

By



Dr Tu Nguyen

**Director of Intelligent Systems Lab, Department of Computer Science,
Kennesaw State University (KSU), USA**

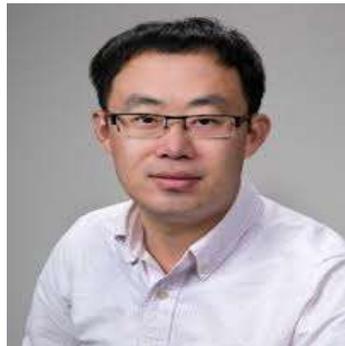
Keynote Session 4

Time: 7.30 PM, 23rd September 2021

Topic:

High-performance surgical and wearable robots for translational medicine

By



Dr. Hao Su

**Associate Professor, Department of Mechanical and Aerospace Engineering
North Carolina State University, USA**

Keynote Session 5

Time: 8.30 PM, 23rd September 2021

Topic:

Challenges in Rover Mission

By



Dr. Darrel Robertson

Research Engineer at NASA Ames Research Center, USA

Keynote Session 6

Time: 10 AM, 24th September 2021

Topic:

Two-Degree-of-Freedom Control of Flexible Manipulator

By



Professor Minoru Sasaki

**Senior Professor, Department of Mechanical Engineering,
Gifu University, Japan**

Keynote Session 7

Time: 10.45 AM, 24th September 2021

Topic:

Manipulator Rule Generation from Table Data Sets and Its Application

By



Professor Hiroshi Sasaki

**Professor, Department of Basic Sciences
Kyushu Institute of Technology, Japan**

Keynote Session 8

Time: 1.30 PM, 24th September 2021

Topic:

Enduruns: Long-endurance sea surveying autonomous unmanned vehicle with gliding capability powered by hydrogen fuel cell

By



Dr. Fausto Pedro García Márquez

Professor, Castilla-La Mancha University, Spain

Keynote Session 9

Time: 2.15 PM, 24th September 2021

Topic:

Bio-Inspired Swarm Intelligence with Engineering Applications

By



Professor M. Osman Tokhi

**Head of Cognitive Systems Research Centre, School of Engineering, London
South Bank University, London, UK**

Keynote Session 10

Time: 3 PM, 24th September 2021

Topic:

K-Learn for Robotics: Kinesthetic and STREMS

By



Dr. Milena Y Krumova

**Founder and Director of European Institute for Technologies, Education and
Digitalisation, Bulgaria**

Keynote Session 11

Time: 3.30 PM, 24th September 2021

Topic:

Embedded Machine Learning for Decentralized Automation

By



Prof. Dr.-Ing. Daniel Schilberg

Vice Dean Mechatronics and Research, Head of Institute, Institute of Robotics and Mechatronics, University of Applied Sciences Bochum, Germany

Keynote Session 12

Time: 4.30 PM, 24th September 2021

Topic:

Real-time decentralized control: Design guidelines and applications

By



Dr Michael Short

Professor, School of Computing, Engineering and Digital Technologies, Teesside University, UK

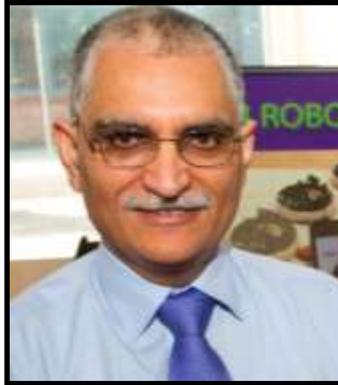
Keynote Session 13

Time: 7.30 PM, 24th September 2021

Topic:

Whole-Body Optimization using Differential Dynamic Programming for Humanoid Robot Applications

By



Prof. Vikram Kapila

Professor, NYU Tandon School of Engineering, USA

Keynote Session 14

Time: 9.30 AM, 25th September 2021

Topic:

How Business Technology Platform Accelerates Your Innovation

By



Dr. Asuman Suenbuel

Senior Director at SAP Startup Accelerator, SAP Labs, Silicon Valley, USA

Session Chairs



Dr Mark Ovinis

**Senior Lecturer, Department of Mechanical Engineering,
Universiti Teknologi PETRONAS, Malaysia**



Professor Subhasis Bhaumik

**Dean, Research & Consultancy,
Professor, Aerospace Engineering and Applied Mechanics
Indian Institute of Engineering Science and Technology, Shibpur,
West Bengal, India**



Dr. Sudheer. A. P

**Assistant Professor, Department of Mechanical Engineering,
National Institute of Technology, Calicut,
Kerala, India**



Professor Shankar S

**Chief Coordinator - R&D Cell,
Professor, Mechatronics Engineering,
Kongu Engineering College, Tamil Nadu, India**



Dr. Dinakaran Devaraj

**Professor and Head
Centre for Automation and Robotics
Hindustan Institute of Technology & Science
Chennai, Tamil Nadu, India**



Dr Satheesh Kumar G

**Associate Professor, Department of Mechanical Engineering,
SSN College of Engineering, Tamil Nadu, India**



Dr Ganesan R

**Professor & Dean, School of Computer Science and Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Sugumaran V

**Professor, School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Maheswari N

**Professor, School of Computer Science and Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Sasikumar M

**Professor, School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Manoj Kumar R

**Associate Professor, School of Electronics Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Lenin Babu M C

**Associate Professor, School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Vetrivelan P

**Associate Professor, School of Electronics Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Sivagami M

**Associate Professor, School of Computer Science and Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Maheswari R

**Associate Professor, School of Computer Science and Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Subbulekshmi D

**Associate Professor, School of Electrical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Jafferson JM

**Associate Professor, School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Elango M

**Assistant Professor (SG), School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**



Dr Ananthi G

**Assistant Professor,
Department of Electronics and Communication Engineering,
Thiyagarajar College of Engineering (TCE), Madurai, Tamil Nadu, India**



Dr Arockia Selvakumar Arockia Doss

**Associate Professor, School of Mechanical Engineering,
VIT Chennai, Tamil Nadu, India**

RIACT 2021
VALEDICTORY FUNCTION
SEPTEMBER 25, 2021

Time	Program	Name of the Speaker
5.00 - 5.15 PM	Welcome address & RIACT 2021 Report	Dr. Arockia Selvakumar A Convener - RIACT 2021 Associate Professor (Senior), SMEC VIT Chennai
5.15 - 5.35 PM	Address by Chief guest	Prof. Michael Short Professor, School of Computing, Engineering and Digital Technologies, Teesside University, UK
5.35 - 5.45 PM	Vote of Thanks	Dr. Arockia Selvakumar A Convener - RIACT 2021 Associate Professor (Senior), SMEC VIT Chennai

Link for Inaugural, Keynote and Valedictory Sessions

Join Zoom Meeting

<https://chennai-vit.zoom.us/j/95013039957?pwd=dGQwVGExUjdZQnRxTE9oWIN0RjZBUT09>

Meeting ID: 950 1303 9957

Passcode: 585605