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robotics



CERTIFICATE OF APPRECIATION

This is to Certify that.....*Dr. Gia Minh Thao NGUYEN*.....of
.....*Toyota Technological Institute, Japan*.....has participated and delivered a Keynote on
.....*Manual Control Mode with Power Assist Function for Autonomous Mobile Robots Using Velocity-Based Impedance Control*
in the “**Third International Conference on Robotics, Intelligent Automation and Control Technologies (RIACT 2022)**” organized by School of Mechanical Engineering, **Vellore Institute of Technology, Chennai, India** in association with School of Computing, Engineering and Digital Technologies, **Teesside University, UK** and Department of Mechatronics and Mechanical Engineering, **Bochum University of Applied Sciences, Germany** between 23rd and 25th of September 2022. His / Her contribution is highly appreciated.

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Arockia Selvakumar
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Professor and Assistant Director
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Arockia Selvakumar Arockia Doss • 1st

Professor and Assistant Director (Placement and Training) at VIT University | S...
15m • Edited • ↻

We [VIT Chennai - Teesside University - Hochschule Bochum](#) RIACT 2022 Organizing Team, sincerely thank [Dr. Gia Minh Thao NGUYEN, Toyota Technological Institute](#) for accepting our request to deliver a Keynote on "Manual Control Mode with Power Assist Function for Autonomous Mobile Robots Using Velocity-Based Impedance Control" for our Third Virtual International Conference on Robotics, Intelligent Automation and Control Technologies (RIACT 2022) on 23-25 September 2022, [Vellore Institute of Technology](#), Chennai, Tamil Nadu, India.

2.1. Originality of this research

- ❑ The research originality is to present an effective control solution for a commercial electric wheelchair carrying people used as the power cart base of the AMR, which is employed to transport equipment in manufacturing sites. With advantages of the proposed power assist control, the dynamics in commercial electric wheelchairs can also be made applicable for goods transportation.
- ❑ For example: The proposed power assist scheme may bring the possibility of easily converting a large number of commercial electric wheelchairs to efficient goods transportation vehicles used in various fields. This can help to develop a large number of goods transportation vehicles at low cost in a short time.



RIACT 2022 - Manual Control Mode with Power Assist Function for Autonomous Mobile Robots using Impedance Control





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VIT CHENNAI
School of Mechanical Engineering

In Association With

Teesside University, UK & Bochum University of Applied Sciences, Germany

Presents

Third International Conference on
Robotics, Intelligent Automation and Control Technologies
(RIACT 2022)

Topic

*Manual Control Mode with Power Assist Function for Autonomous
Mobile Robots Using Velocity-Based Impedance Control*

Keynote Speaker



**Dr. Gia Minh Thao
NGUYEN**
Toyota Tech Institute
Japan



23-25 Sep 2022

Organizing Chair
Dr Arockia Selvakumar A
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Convener

Dr Arockia Selvakumar Arockia Doss
Vellore Institute of Technology, Chennai

Third International Conference on

Robotics, Intelligent Automation and Control Technologies

23-25 September 2022

About the Conference

School of Mechanical Engineering, VIT Chennai (India) in association with School of Computing, Engineering and Digital Technologies, Teesside University (UK) and Department of Mechatronics and Mechanical Engineering, Bochum University of Applied Sciences (Germany) organizing a 3 days Virtual International Conference on Robotics, Intelligent Automation and Control Technologies (RIACT 2022) on 23rd, 24th and 25th of September 2022. The main objective of this RIACT 2022 is to provide a virtual platform to researchers and practitioners from both academic institutions and industries to meet and share cutting-edge developments in the areas of Robotics, Intelligent Automation, Mechatronics, Adaptive Control, Industry 4.0 and associated disciplines. This virtual conference also provides an opportunity to exchange research evidence and innovative ideas.

Key Topics & Publication

• Robot Design, Development & Control • Mobile & Autonomous Robots • Rehabilitation Robots & Devices • Agricultural, Space & Underwater Robots • Medical & Service Robots • Collaborative Robots • Intelligent Automation Systems • Intelligent Fault Detection and Diagnosis • Robust/Adaptive Control of Robotic System • Motion Planning and Control • Cognitive Automation • Image Processing & Vision Systems • Actuators & Sensors • Mechatronic Systems • HMI, SLAM, ROS • CAD/CAM/CAE • Vehicle Control Applications • Deep learning in Robotics • AI in Robotics, Industrial IoT
All Accepted papers will be published in Scopus Indexed Journals / Proceedings (Publication Fee: 6500/-)
Extended version of the accepted papers will be published in MDPI Robotics, Q2 Journal, APC:1800 CHF

Keynote Speakers



Dr Yang Gao
USA



Dr Asuman Suenbuel
USA



Dr Virginia Ruiz Garate
UK



Ms. Justina Pelc
Poland



Dr Milena Y Krumova
Bulgaria



Dr. Robert G. Landers, USA



Prof. Fausto Pedro Garcia Márquez, Spain



Ing. Erik Pekkeriet
Netherlands



Dr. Gia Minh Thao NGUYEN
Japan



Dr Olmer Garcia Bedoya
Colombia

Dates to Remember

Full Length Paper Submission : 12th August 2022
Notification of Acceptance : 5th September 2022
Conferene Fee Payment : 12th September 2022

Registration Details

Paper Presentation : Rs.1000/- (IND), USD100 (Foreign)
Only Participation : Rs.500/- (IND), USD50 (Foreign)

Submit your paper to icriact@gmail.com

Further queries +919962681933 or www.riact.co.in

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