RAMAIAH UNIVERSITY OF APPLIED SCIENCES

Report on

Distinguished Lecture Series (Online) by Professor Gamini Dissanayake

"Field Robotics and SLAM"

Organized by: Directorate of Research and ICPM

Ramaiah University of Applied Sciences,
Date: 28 – 29 July 2020
Venue: Online

Report on Distinguished Guest Lecture Series (Online) by Professor Gamini Dissanayake

"Field Robotics and SLAM"

Summary:

As a part of continuation of the Distinguished Lectures, a series of online Distinguished Lectures have been delivered by Professor Gamini Dissanayake on the topic entitled "***Field Robotics and SLAM***" at Ramaiah University of Applied Sciences (RUAS).

The Distinguished Lecture has engaged Participants across the country along with RUAS Internal Faculty Members and Ph.D. Scholars.

Event Description:

Professor Gamini Dissanayake, James N. Kirby Distinguished Professor of Mechanical and Mechatronic Engineering at University of Technology, Sydney, Australia, has presented online Distinguished Lectures on the topic entitled "Field Robotics and SLAM" at RUAS on 28 and 29 July 2020.

The Distinguished Lectures Series has been initiated at RUAS in 2018 and has become since then a place for renowned academics, scholars, qualified experts and scientists to share their knowledge and debate on topics of current relevance. Distinguished Lectures Series delivered by outstanding scientists and academicians aims to:

- Create a scientifically advanced and challenging context for academic work and development of knowledge on topics of interest and importance to global scientific community
- Serve as one of the means to stay aware of the most recent scientific and technological developments,
- Provide benefits to professional peer networking to all Participants.

(Organizers)

Professor Gamini Dissanayake, James N. Kirby Distinguished Professor of Mechanical and Mechatronic Engineering at University of Technology, Sydney, Australia

Dr. S. S. Sritharan, Vice Chancellor, RUAS

Dr. G. R. Kadambi, Pro Vice Chancellor – Research, RUAS

Dr. Sharath Kumar, Director – Research, RUAS

Ms. Lyubov Kulikovich, Deputy-Director, ICPM

Objectives:

1. To present the advances in field robotics from research to applications

Budget: Event is Free of Cost for All Participants

Program and Speakers

Sl. No.	Resource Person	Title of the Distinguished Lecture	Date and Time
1	**Professor Gamini Dissanayake** James N. Kirby Distinguished Professor of Mechanical and Mechatronic Engineering at University of Technology, Sydney, Australia	***Field Robotics and SLAM***	28 July 2020 (10.30 am IST)
2	**Professor Gamini Dissanayake** James N. Kirby Distinguished Professor of Mechanical and Mechatronic Engineering at University of Technology, Sydney, Australia	***Field Robotics and SLAM***	29 July 2020 (10.30 am IST)

Summary of the Event

Professor Gamini Dissanayake, James N. Kirby Distinguished Professor of Mechanical and Mechatronic Engineering at University of Technology, Sydney, Australia, has presented online Distinguished Lectures on the topic entitled "Field Robotics and SLAM" at RUAS on 28 and 29 July 2020.

Distinguished Guest Lecture Series (Online) has been organized and moderated by RUAS. RUAS Key Participants attended the event were: Dr. S. S. Sritharan, Vice Chancellor, Dr. G. R. Kadambi, Pro Vice Chancellor – Research, Dr. Sharath Kumar, Director – Research, and Ms. Lyubov Kulikovich, Deputy-Director, ICPM. Speaker was Professor Gamini Dissanayake. The event has been made available free of cost to all Participants.

- **Programme:**

Distinguished Guest Lecture Series began with the introduction of the Speaker by Dr. S. S. Sritharan, Vice Chancellor, RUAS. Professor Gamini Dissanayake went ahead with his talk. Afterwards, there was a Q&A session, and the event has been concluded.

Professor Gamini Dissanayake presented the review and explanation of how the Robotics has been one of the crucial components of large scale manufacturing industries for some time now. More recently its interdisciplinary nature has moved it to the front of the scientific thought advancement: Intersection with AI and deep learning areas allows to broaden the application of robots in manufacturing and in many other aspects of everyday life. Professor Gamini Dissanayake made an inspirational and wholesome presentation on the modern aspects and challenges in the Field Robotics and Simultaneous Localization and Mapping (SALM). His use of multiple case-studies illustrated key competencies required in various application domains.

Therefore, the objective to present the advances in field robotics from research to applications has been successfully achieved. The Distinguished Lectures have engaged around 829 participants across country along with RUAS Internal Faculty Members and Ph.D. Scholars.

Conclusion and Outcomes

- **Programme outputs:**

  During the Distinguished Guest Lecture Series, the objective to present the advances in field robotics from research to applications has been achieved successfully. The Distinguished Lectures have engaged around 829 Participants for both days together across the country along with RUAS Internal Faculty Members and Ph.D. Scholars.

Annexures

Link to the Attendee Reports:
\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\AttendeeReport (1).xls

\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\AttendeeReport (2).xls

Link to the Recordings:
\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\ Distinguished Lecture on Robotics by Professor Gamini Dissanayake (1).mp4

\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\ Distinguished Lecture on Robotics by Professor Gamini Dissanayake (2).mp4

Link to Q&A Reports:
\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\Qna_Report (1).xls
\\10.10.53.16\icpm\Distinguished Lecture by Prof. G. Dissanayake\Qna_Report (1).xls