

REPORT ON
NETWORKED CONTROL SYSTEM:
CHALLENGES, APPLICATION, AND
FUTURE SCOPE

6th September, 2020

ORGANIZED BY

ISA STUDENT SECTION &
INSTRUMENTATION AND CONTROL
ENGINEERING DEPARTMENT,
L.D. COLLEGE OF ENGINEERING, AHMEDABAD

Platform: Google Meet

Date: 6thSeptember,2020

In the field of automation and control, the industries are emerging toward industry 4.0 and the Industrial Internet of Thing (IIOT) which enables the connectivity to and from field devices (sensors, small and large control loops), this brings the need of connectivity with a secured network to share data. Seeing the emergence and the updates in technology, to understand more about Networked Control System, **ISA student section LDCE** in association with **Department of Instrumentation and Control Engineering, L.D. College of Engineering** had organized a webinar on **NETWORKED CONTROL SYSTEM: CHALLENGES, APPLICATION, AND FUTURE SCOPE** on Google meet platform on the date of 06 September 2020.

More than 32 students of LDCE and various colleges like NIT Trichy, Nirma and VGEC had attended and benefit from this webinar. Along with the students, 1982 alumni Mr.Benerjee also attended this webinar. Formal introduction of speaker was given by Dr. Manish Thakker , Faculty advisor and head of the department, Prof. V.P. Patel (Assoc. Prof. and Training and Placement officer) addressed audience about network control system and its advantages, departmental faculties Dr. Ankit K. Shah, Prof. Vandana V. Patel also attended the webinar.

This webinar was delivered by Dr. Dipesh H. Shah, Post. Doctoral Fellow, Department of Biological Engineering, IIT- Gandhinagar and Alumni of ME IC 2007 batch.

The session started with the Explanation of the Networked Control System, structure, data transmission, and Followed by the Different types of Networked Control System. A Shared Networked system was discussed in detail. Then the problems in that system were also discussed. The method to reduce the lag for the water tank heater, how the process can be optimized using a sliding mode control mechanism was explained. Along with this an example of Active Suspension was also discussed in detail. The applications, future scope, and various projects based on network control were discussed. The session concluded with the ongoing research of speaker Dr. Dipesh H. Shah.

GLIMPSES of WEBINAR

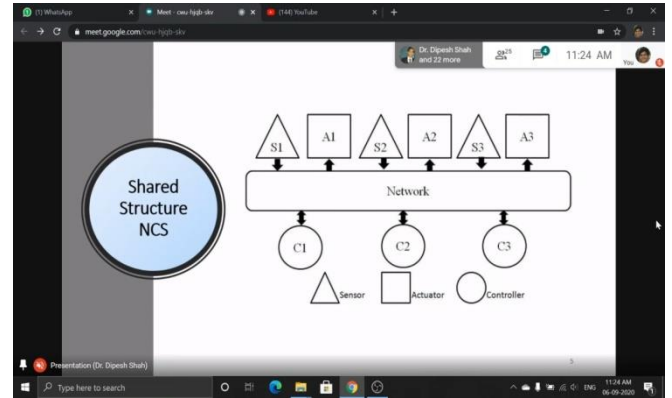
Introduction to Webinar and Types of NCS:

Networked Control System (NCS): Challenges, Applications and Future Scope

Presenter,
Dr. Dipesh Shah, Postdoctoral Fellow,
Indian Institute of Technology, Gandhinagar, India
Date: 6th September 2020

Hosted by,
Instrumentation and Control Engineering Department
L. D. College of Engineering, Ahmedabad

ISA STUDENT SECTION LDC



Future Scope and Current Research work of Mentor:

