

**Special issue on
“Sensor based Real-Time Measurement and Monitoring Device to Inspect Wire Rope”**

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Wire ropes are structural apparatus formed of several strands of metal wire that are used dynamically for hosting cranes, elevators, and mechanical power transmission. It's mandatory to inspect the wire rope directly to ensure personnel safety and work discontinuation. Development in the field of sensor has made the inspection simple through real-time measurement and monitoring. Therefore, developing a sensor-based measurable inspection system for wire rope would be a significant device for industries.

A common platform is always in need to share the views of different researchers relating to the complicated facets of sensor-based real-time measurement and monitoring devices. The device must ensure personal safety and stop work discontinuation. This special issue explores novel concepts of sensor-based real-time measurement and monitoring for inspecting wire ropes employed in hosting cranes, elevators, and mechanical power transmission. Real-time inspection using sensor

Prospective authors are invited to submit tutorial-style papers on topics related to Instrumentation and Measurement for Real-Time Measurement and Monitoring Device to Inspect Wire Rope including, but not limited to the following:

- Real-time inspection using sensor
- Sensor based monitoring system
- Hoist wire rope measurement and examination
- Rag-and-visual analysis using sensor
- Sensor to measure abrasions, corrosion, pitting, and lubrication inside the rope
- Maintenance and inspection of wire ropes for better performance
- Safety diagnosis of wire rope using sensor system

Papers should present to the wide audience a general overview of one scientific subject of your interest fitting the Special Issue Topic and really framed in the Instrumentation and Measurement field.

Contributions dealing with Open Problems in IM are very welcome, also presenting challenging and ambitious solutions, which could be developed by current and advanced technology.

While drafting your paper to be submitted to IMM, you are strongly invited to take care that:
-The paper is properly framed in the field of Instrumentation and Measurement. This could be achieved by properly structuring the Review of the State of the Art and motivations of your work.

-In line with mission of the IEEE I&M Magazine, the paper aims to provide an overview of the topic addressed to the general I&M audience.

- The paper format is compliant with the IMM's author guidelines:

<https://iee-ims.org/publication/ieee-imm/new-submissions>

In general, each paper should contain 3500-5000 words, and present 4-6 figures.

When your paper is ready, please submit it completely through

<https://www.editorialmanager.com/IMM/default.aspx>

We expect to receive your paper by June 5th, 2021 to begin the review and production process. With your submission, please include a cover letter where you specify that this paper has been submitted for this special issue.

Schedule:

Full-length paper submission:	June 5 th , 2021
Revised manuscript due:	August 5 th , 2021
Final acceptance notification:	September 5 th , 2021
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