WORLD AUTOMATION CONGRESS

WAC 2024

Applied Machine Learning and Artificial Intelligence for Autonomous Vehicles in the 21st Century

https://tsiepress.com/wac/event/2024/

16th Bi-annual Congress, Playa Paraiso, Riviera Maya, Mexico

September 22-26, 2024

Special session on:

Fault Tolerance Control using Machine Learning Techniques

With the growing popularity of electric vehicles and the movement towards clean energy, electric drives are becoming increasingly important in the transportation sector. These apps have more and more requirements as they develop. Fault tolerance and continuous operation rank among these requirements as the most important for improving reliability. Post-fault operation is highly important, especially for applications that are sensitive to security, such as propulsion systems in electric vehicles. It is also useful in situations when the failure of electric machinery might have a major negative impact on the economy, like in wind energy conversion systems.

Fault-tolerant electric drives are being developed by numerous research organizations in order to meet these changing needs. The goal is to achieve fault tolerance without adding more hardware and prevent the expensive cost of electric vehicles. Hence, this special session of WAC 2024 is dedicated to presenting the latest advances and innovations in fault-tolerant control and detection of machine failures in the scientific community and industry.

Selected papers from this session will be invited for publication in a special issue for a JCR publication, following standard review/revision procedures.

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Time Schedule: Special Sessions & regular papers Due	March 1, 2024
Acceptance notification..	May 20, 2024
Final manuscripts upload and early registration ………………………..……	August 1, 2024
Congress	September 22-26, 2024