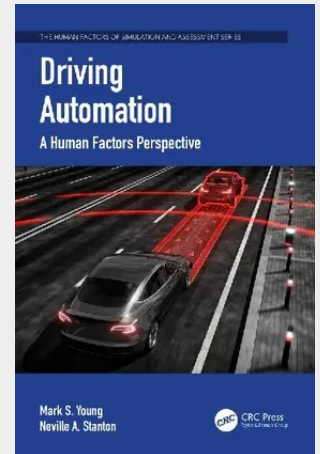


Young / Stanton

Driving Automation

A Human Factors Perspective

The technology behind self-driving cars is being heavily promulgated as the solution to a variety of transport problems including safety, congestion, and impact on the environment. This text examines the key role that human factors plays in driving forward future vehicle automation in a way that realizes the benefits while avoiding the pitfalls. Driving Automation: A Human Factors Perspective addresses a range of issues related to vehicle automation beyond the 'can we' to 'how should we'. It covers important topics including mental workload and malleable attentional resources theory, effects of automation on driver performance, in-vehicle interface design, driver monitoring, eco-driving, responses to automation failure, and human-centred automation. The text will be useful for graduate students and professionals in diverse areas such as ergonomics/human factors, automobile engineering, industrial engineering, mechanical engineering, and health and safety.



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