The Impact of Cyber-Physical Systems on the Automotive Industry

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New automotive product development relies heavily on the disciplines of control, electronics, communication, and real-time software. To justify this claim, this talk provides on overview of emerging and exemplary product features and enhancements. Naturally attendant with the increased functionality is increased development complexity. This development complexity needs to be mitigated and model-based development techniques intended to provide this mitigation are also presented. Finally, open systems research needs motivated by cyber-physical systems development are presented.

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