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Die agendaCPS zeigt auf, welche Technologien die Grundlage von Cyber-Physical Systems bilden und welches Innovationspotenzial ihnen innewohnt. Zudem macht sie deutlich, welche Forschungs- und ...

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The term "cyber-physical system" (CPS) sounds like a brand-new buzzword as it occurs increasingly as a theme of many conferences, in journal articles and books—like this one. Etymologically the prefix cyber derives from the ancient Greek word ?????????? (kybernesis) and originally means control skills.

[Evolution of Cyber-Physical Systems: A Brief Review ...](#)

Instead our approach focuses on using techniques taken from the cyber-physical systems' modeling domain. We create a model of the building and show how we constrain the model by OCL-like rules to support a sound specification which can be matched against monitoring results afterwards. ... agendaCPS - Integrierte Forschungsagenda Cyber-Physical ...

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1. Introduction. Cyber–physical systems (CPS) can be defined as systems that involve computational entities which are in intensive connection with the surrounding physical world and its on-going processes, providing and using, at the same time, data-accessing and data-processing services , , .In manufacturing, following the same aim and the context of Industry 4.0, the implementation of CPS ...

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Cyber-physical systems (abbr. CPS; cyber-physical systems) are characterized by a profound linking between software and information logistics components (cyber *) and mechanical, electronic, and sensory components (* physical). Thereby, the controlling and also the transfer and exchange of data takes place in real-time.

[Cyber-physical Systems](#)

cyber-physical systems, product-service systems, cyber-physical product-service systems, requirements engineering Abstract These days, manufacturers need to improve both their products and services, as well as their technological base to achieve a more sustainable value proposition, to become more efficient and effective in the market, and to ...

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A Human Sensory Architecture for Cyber Physical Systems. In: Journal of Theoretical and Applied Information Technology 2013 [21] Geisberger, E.; Broy, M.: agendaCPS. Integrated Research Agenda Cyber-Physical Systems. Original citation: agendaCPS. Integrierte Forschungsagenda Cyber-Physical Systems. Berlin 2012. [22]

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