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Complexity Thinking and Cyber-Physical Systems | ZWF ...
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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 κυβέρνησις (kybernesis) and originally means control skills.

Evolution of Cyber-Physical Systems: A Brief Review ...

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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 ...

Cyber-Physical Product-Service Systems – Challenges for ...

A Human Sensory Architecture for Cyber Physical Systems. In: Journal of Theoretical and Applied Information Technology 2013 [21]
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Mental Strain as Field of Action in the 4th Industrial ...

Geisberger E, Broy M (2012) agendaCPS – Integrierte Forschungsagenda Cyber-Physical Systems. Springer, Berlin, Germany Google Scholar
Hennig-Thurau T, Walsh G, Schrader U (2014) VHB-Jourqual – ein Ranking von betriebswirtschaftlich-relevanten Zeitschriften auf der Grundlage von Expertenurteilen.

Concept and Diffusion-Factors of Industry 4.0 in the ...

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