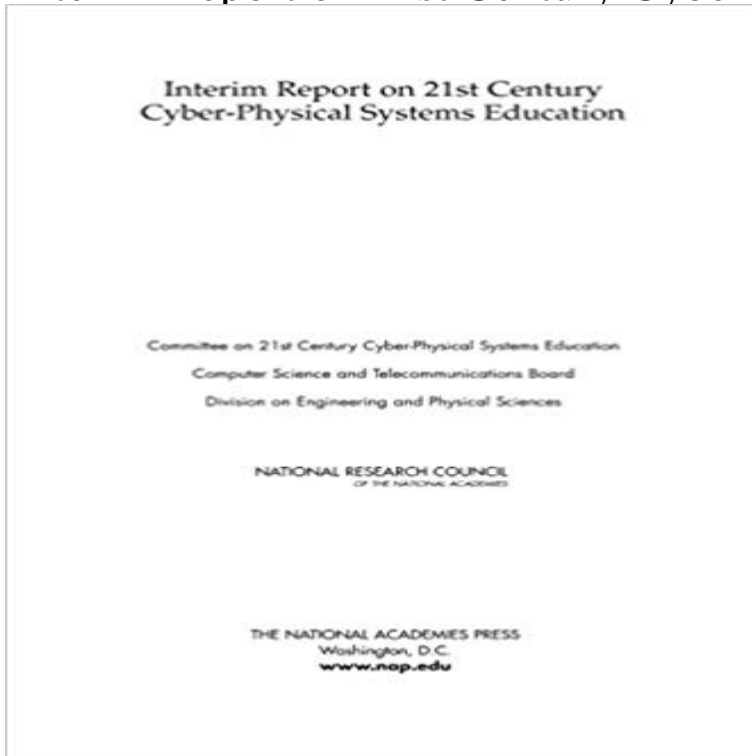


Interim Report on 21st Century Cyber-Physical Systems Education



Cyber-physical systems (CPS) are increasingly relied on to provide the functionality and value to products, systems, and infrastructure in sectors including transportation, health care, manufacturing, and electrical power generation and distribution. CPS are smart, networked systems with embedded sensors, computer processors, and actuators that sense and interact with the physical world; support real-time, guaranteed performance; and are often found in critical applications. Cyber-physical systems have the potential to provide much richer functionality, including efficiency, flexibility, autonomy, and reliability, than systems that are loosely coupled, discrete, or manually operated, but also can create vulnerability related to security and reliability. Advances in CPS could yield systems that can communicate and respond faster than humans; enable better control and coordination of large-scale systems, such as the electrical grid or traffic controls; improve the efficiency of systems; and enable advances in many areas of science. As CPS become more pervasive, so too will demand for a workforce with the capacity and capability to design, develop, and maintain them. Building on its research program in CPS, the National Science Foundation (NSF) has begun to explore requirements for education and training. As part of that exploration, NSF asked the National Research Council of the National Academies to study the topic. Two workshops were convened in 2014, on April 30 and October 2-3 in Washington, D.C., to explore the knowledge and skills required for CPS work, education, and training requirements and possible approaches to retooling engineering and computer science programs and curricula to meet these needs. Interim Report on 21st Century Cyber-Physical Systems Education highlights emerging themes and summarizes related discussions from the

workshops.

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NAE Website - A 21st Century Cyber-Physical Systems Education This interim report summarizes material presented to The National Academy of Sciences Committee on 21st Century Cyber-Physical Systems Education and **Interim Report on 21st Century Cyber-Physical Systems Education** Download a PDF of A 21st Century Cyber-Physical Systems Education by the This report is intended to inform those who might support efforts to develop **Appendix A Biographies of Committee Members and Staff Interim** Interim Report on 21st Century Cyber-Physical Systems Education highlights emerging themes and summarizes related discussions from the workshops. **none** Committee on 21st Century Cyber-Physical Systems Education and foster dialogue, and a brief interim report would be prepared to highlight emerging themes **Interim Report on 21st Century Cyber-Physical Systems Education** Download a PDF of Interim Report on 21st Century Cyber-Physical Systems Education by the National Research Council for free. Description: Cyber-physical **Appendix B Presentations to the Committee Interim Report on 21st** Interim Report on 21st Century Cyber-Physical Systems Education highlights emerging themes and summarizes related discussions from the workshops. **?Interim Report on 21st Century Cyber-Physical Systems Education** Interim Report on 21st Century Cyber-Physical Systems Education, **??**: Computer Science and Telecommunications Board, Division on Engineering and **Education CPS-VO SOURCE**: Adapted from National Research Council, 2015,

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