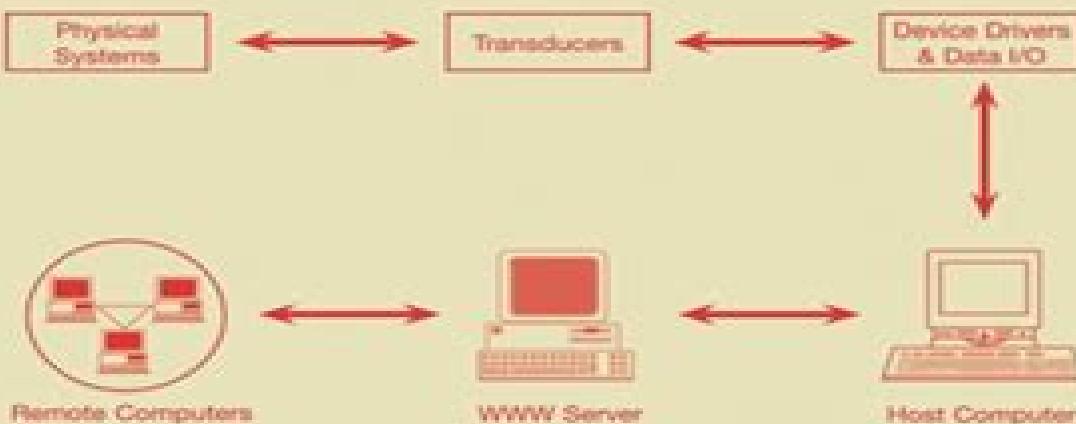


Modern Industrial Automation Software Design

Principles and Real-World Examples

Lingfeng Wang and Kay Chen Tan



Modern Industrial Automation Software Design

Michal Rosen-Zvi

Modern Industrial Automation Software Design:

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Soft Computing Applications Valentina Emilia Balas,Lakhmi C. Jain,Branko Kovačević,2015-11-02 These volumes constitute the Proceedings of the 6th International Workshop on Soft Computing Applications or SOFA 2014 held on 24 26 July 2014 in Timisoara Romania This edition was organized by the University of Belgrade Serbia in conjunction with Romanian Society of Control Engineering and Technical Informatics SRAIT Arad Section The General Association of Engineers in Romania Arad Section Institute of Computer Science Iasi Branch of the Romanian Academy and IEEE Romanian Section The Soft Computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability robustness and low solution cost Soft computing facilitates the use of fuzzy logic neurocomputing evolutionary computing and probabilistic computing in combination leading to the concept of hybrid intelligent systems The combination of such intelligent systems tools and a large number of applications introduce a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains The conference papers included in these proceedings published post conference were grouped into the following area of research Image Text and Signal Processing li Intelligent Transportation Modeling and Applications Biomedical Applications Neural Network and Applications Knowledge Based Technologies for Web Applications Cloud Computing Security Algorithms and Computer Networks Knowledge Based Technologies Soft Computing Techniques for Time Series Analysis Soft Computing and Fuzzy Logic in Biometrics Fuzzy Applications Theory and Fuzzy Control Bussiness Process Management Methods and Applications in Electrical Engineering The volumes provide useful information to professors researchers and graduated students in area of soft computing techniques and applications as they report new research work on challenging issues

Distributed Control Applications Alois Zoitl,Thomas Strasser,2017-12-19 Distributed Control Applications Guidelines Design Patterns and Application Examples with the IEC 61499 discusses the IEC 61499 reference architecture for distributed and reconfigurable control and its adoption by industry The book provides design patterns application guidelines and rules for designing distributed control applications based on the IEC 61499 reference model Moreover examples from various industrial domains and laboratory environments are introduced and explored

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