

Intelligent Technical Systems

Lecture Notes in Electrical Engineering

Volume 38

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Editors

Intelligent Technical Systems

 Springer

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ISBN 978-1-4020-9822-2

e-ISBN 978-1-4020-9823-9

DOI 10.1007/978-1-4020-9823-9

Library of Congress Control Number: 2009920106

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9 8 7 6 5 4 3 2 1

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Preface

Intelligent Technical Systems are electronic devices in which one or more networked components are located. Nowadays, the sectors of automotive, medical/e-Health or multimedia show interesting developments. Other well-known sectors like home or building automation also introduce new concepts in this area.

Intelligent Technical Systems are characterized by a strong interaction with their environment. Several of these systems require mobility support. For example, systems with ubiquitous computing capabilities require a complex design of different interfaces. The integration of human-machine interfaces needs to be considered in special purpose systems, like devices for dependent people with specific needs.

The book *Intelligent Technical Systems* provides an overview on several related fields of applied research, like multimedia systems, embedded programming, middleware platforms, sensor networks/autonomous systems and applications for intelligent engineering. Each area is covered by a separate part of the book.

This book supports application engineers and researchers to get introduced into the topic of Intelligent Technical Systems with the help of concrete examples covering the design and implementation phase.

Madrid, Spain
December 2008

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