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| Nota di contenuto | Preface -- Organization -- Conference Co-chairs -- Program Chair -- Program Committee -- Additional Reviewers -- Invited Speakers -- Contents -- Mini-Sym 4.0. a Novel Simulation Tool to Calculate Real-time Production Line Productivity -- 1 Introduction -- 2 From the Micro-term to the Long-term -- 3 Characterization of Mini-term Deterioration in a Real Welding Station -- 3.1 Pathologies Analysed -- 3.2 Experimental Test -- 4 Welding Line, Modelling and Simulation -- 5 Welding Line Simulation -- 5.1 Definition of the Simulation Tool -- 5.2 Definition of the Simulation Tool -- 5.3 Calculation of Engineering Running Rate for Each Model -- 5.4 Calculation of Engineering Running Rate Based on Production -- 5.5 Discussion -- 6 Conclusions and Future Works -- References -- Constrained Reachability Problems for a Planar Manipulator -- 1 |

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| Introduction -- | 2 A General Optimal Control Problem for Constrained |
| Reachability -- | 3 Exact and Approximated Distance Formulas for |
| Obstacles -- | 3.1 Distance Formulas from the Ellipse -- 3.2 |
| Distance Function from General Obstacles -- | 4 Optimal Control of a |
| | Class of Hyper-redundant Manipulators |

Sommario/riassunto

The book focuses the latest endeavours relating researches and developments conducted in fields of Control, Robotics and Automation. Through more than ten revised and extended articles, the present book aims to provide the most up-to-date state-of-art of the aforementioned fields allowing researcher, PhD students and engineers not only updating their knowledge but also benefiting from the source of inspiration that represents the set of selected articles of the book. The deliberate intention of editors to cover as well theoretical facets of those fields as their practical accomplishments and implementations offers the benefit of gathering in a same volume a factual and well-balanced prospect of nowadays research in those topics. A special attention toward "Intelligent Robots and Control" may characterize another benefit of this book. .
