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well structured compilation of classic and emerging application areas of robotics from the foundations to the social and ethical implications of robotics the handbook provides a comprehensive collection of the accomplishments in the field and constitutes a premise of further advances the second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains a chapter from the springer handbook of robotics that traces the history and evolution of the field from ancient times to the present it covers the foundations methodologies technologies and applications of robotics in various domains and contexts this part of the springer handbook of robotics describes fit for purpose robots and includes hardware design control of locomotion manipulation and interaction perception and user interfaces the economic social drivers for the particular applications are also discussed robotics in its long journey has inspired this handbook which is organized in three layers the foundations of robotics science the consolidated methodologies and technologies of robot design sensing and perception manipulation and interfaces mobile and distributed robotics the advanced applications of field and service robotics as well there is no author summary for this book yet authors can add summaries to their books on scienceopen to make them more accessible to a non specialist audience related collections author and book information a research and application oriented

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