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| Title | My favorite books |
| Sub Title | |
| Author | |
| Publisher | Faculty of Science and Technology, Keio University |
| Publication year | 2011 |
| Jtitle | New Kyurizukai No.6 (2011. 1) ,p.7- 7 |
| JaLC DOI | |
| Abstract | |
| Notes | |
| Genre | Article |
| URL | https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=KO50001003-00000006-0007 |

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私の 本棚

My favorite books



● Probabilistic Robotics -In English-

When a robot moves around in an environment similar to the human living environment, it becomes necessary to deal with uncertainties and unpredictable phenomena that exist in the environment and/or systems. As a solution to this problem, there is a robot design method based on a probabilistic approach. This book explains mathematical backgrounds and main algorithms of probabilistic robotics by introducing specific examples of implementation and experiments. A translated Japanese version is also available. I found this book when I began developing behavioral algorithms for the MKR-003 transport robot for hospitals so that it could move around safely in an environment where humans are present.

● Defeat in Manufacturing War -In Japanese-

I recommend this book to students preparing for university entrance exams as well as university students. Authored by the highest authority in the field of control theory, this book explains the development of science and technology in Japan by tracing its history, shedding light on the essential problems underlying the situation facing us today. I hope readers will obtain clues on what they should learn as competition in the manufacturing world becomes increasingly intense on a global scale. Given we are in an era when virtually any piece of information is available relatively easily, it is important more than ever to exert yourself to acquire the insight into the essence of things.

● Introduction to Dynamics and Control -In English-

This is a textbook on dynamics, vibration engineering and control theories. Prof. Kazuo Yoshida, my supervisor, introduced this book to me when I became a research associate. I still remember Prof. Yoshida saying, "While there are several styles of textbooks on dynamics, this textbook fits my style best." Now responsible for lecturing on dynamics to undergraduates myself, every year I strive to organize what to teach them and in what order, taking Prof. Yoshida's remark to heart.

● "Postmortem" Series (Patricia Cornwell) -Translated in Japanese-

"Postmortem" is a crime mystery series, in which legal medicine plays a major role and the latest scientific investigation is used to solve the cases. I would like you to read them, beginning with the first novel of the series in due order since the main characters are depicted in detail and their respective lives also develop as the series advances. It is intriguing to find the latest scientific investigation beginning to be used for what was formerly deemed unacceptable as evidence, thus enabling cases to be solved.

● Space Vehicle Dynamics and Control -In English-

This is an academic book on spacecraft dynamics and control. Consisting of five sections – modeling, analysis and control of dynamic systems; orbital dynamics and control; structural dynamics and control; and dynamics and control of cutting-edge space vehicles – the book is comprehensive in content, covering fundamentals through applications. Since it contains numerous examples of numerical analysis and a comprehensive bibliography, it allows you to learn highly technical knowledge of space vehicle dynamics and control.

● October Sky (DVD)

This movie is based on the true story of Mr. Homer H. Hickam, a former NASA engineer. Impacted by the first Sputnik launch by the Soviet Union in 1957, as a high school boy Homer takes up the challenge of making a rocket. The movie depicts the process of Homer's growth through various experiences, such as friendship with his classmates, conflict and reconciliation with his strict father, and interaction with his teacher and mother who warmly support him. This story reminds me of my key turning point in life, when I could meet various people who supported and understood me. So moving that I went to the theater to view the movie three times! This movie is a truly memorable one.