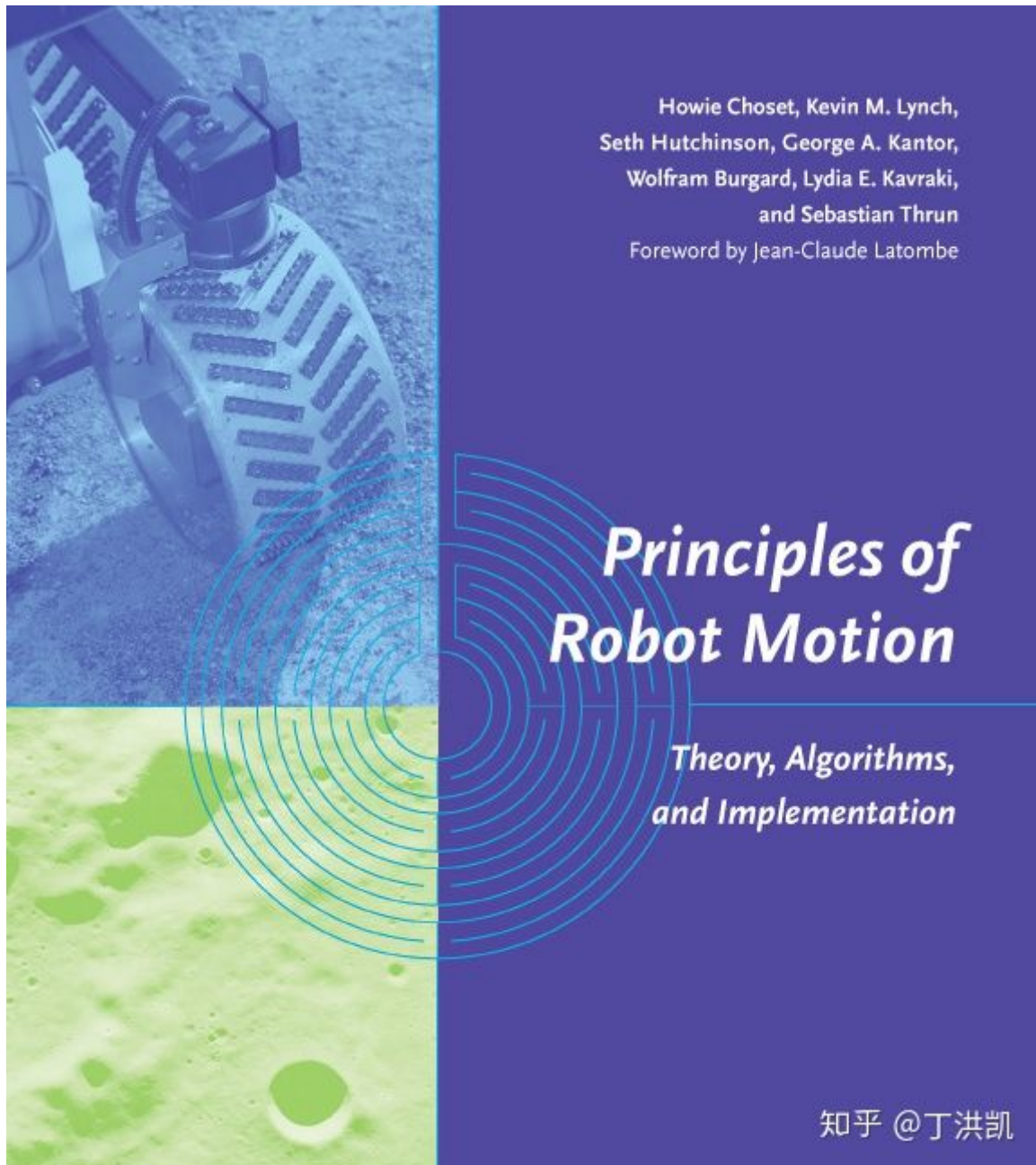


运动规划资源汇总

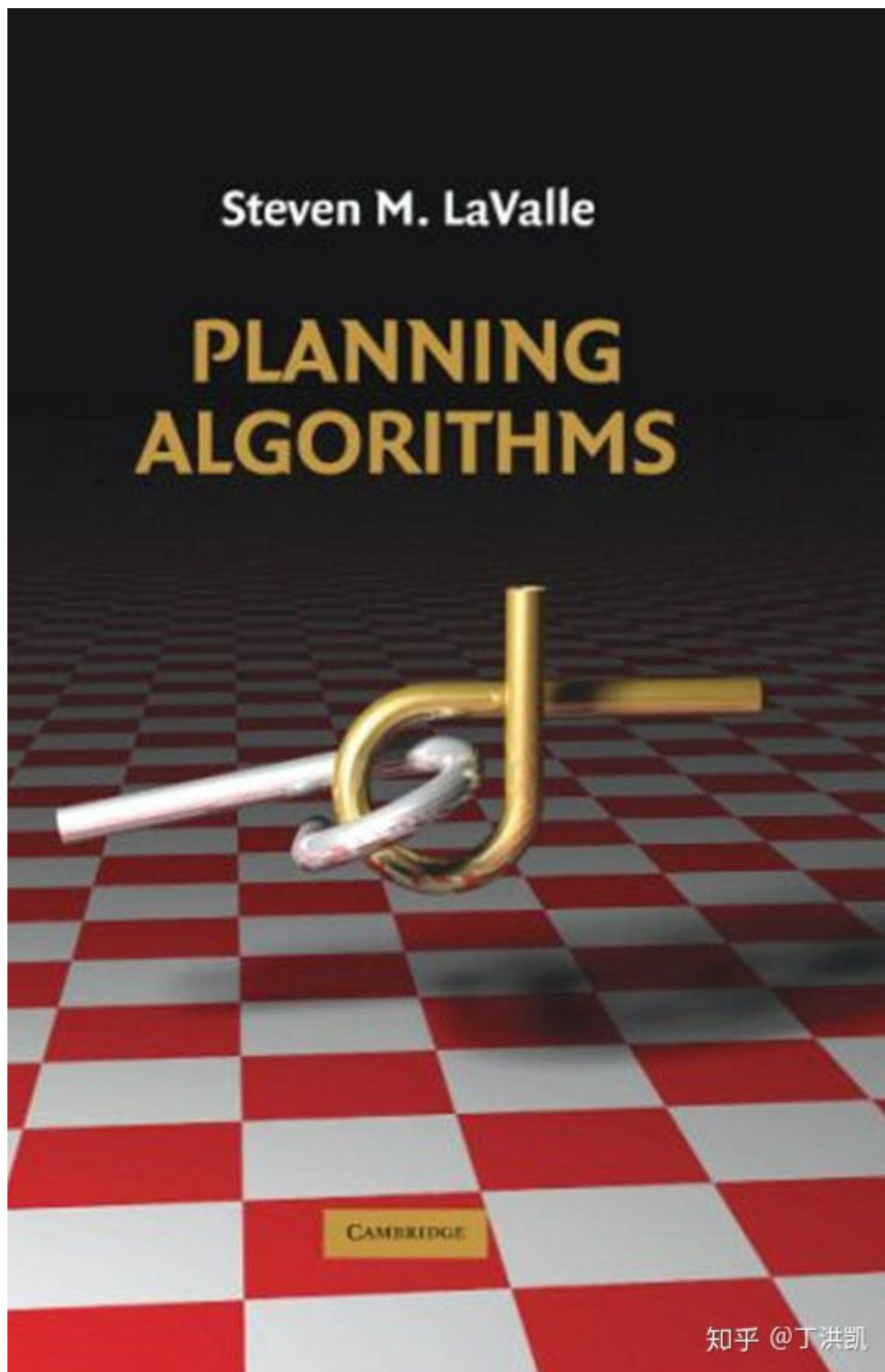
1. 教材书籍

- **Principles of Robot Motion: Theory, Algorithms, and Implementations**
 - 网址：biorobotics.ri.cmu.edu/...



- **Planning Algorithms**





2. 公开课

- 宾利法尼亚 Coursera 公开课：**Robotics: Computational Motion Planning**
 - Website：[coursera.org/learn/robo...](https://coursera.org/learn/robotics-planning)



coursera Explore ▾ What do you want to learn? 🔍

Browse > Physical Science and Engineering > Mechanical Engineering

This course is part of the **Robotics Specialization**

Robotics: Computational Motion Planning

★★★★★ 4.2 790 ratings • 201 reviews

Enroll for Free
Starts Oct 13

Financial aid available

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3. 编程实践

- Python 版

<https://github.com/AtsushiSakai/PythonRobotics>
🔗 github.com



- C++ 版

<https://github.com/onlytailei/CppRobotics>
🔗 github.com



- ROS + MoveIt! + OMPL

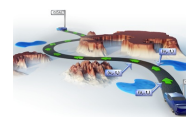
Powering the world's robots
🔗 www.ros.org



MoveIt Motion Planning Framework
🔗 moveit.ros.org



The Open Motion Planning Library
🔗 ompl.kavrakilab.org



4. 论文

Sampling-based

- **Probabilistic Roadmaps (PRM)**
 - Kavraki et al, Probabilistic roadmaps for path planning in high-dimensional configuration spaces. 1996.
- **Rapidly-Exploring Random Trees (RRT)**

The Rapidly-Exploring Random
Tree (RRT) Page
msl.cs.uiuc.edu

