

MAS ISW Assignment 2

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Task 1: Extract keywords from "Readings in Robot Architecture"

- Conceptual architecture
 - control architecture
 - telerobot
 - reference model architecture
 - Supervision
 - fault detection
 - fault recovery
 - situation-driven
 - behavior-based
- Functional architecture
 - hierachical
 - layered
 - realtime
 - hybrid system
- Software architecture
 - toolkit
 - framework
 - asynchron
 - dsl
 - reactive
 - middleware
- Hardware architecture

- robot navigational system
- detection
- diagnosis
- environments
 - dynamic
 - indoor
- mobile robots
- paper type
 - background
 - survey
- driving

Task 2: Identify the six most important...

... in robotics:

conferences IROS, ACC, INFOCOM, RSS, Robosoft, ICRA

journals

- Advances in Robotics and Automation
- Journal of Behavioral Robotics
- Journal of Automation, Mobile Robotics and Intelligent Systems
- International Journal of Imaging and Robotics
- Transactions on Systems and Control
- STUDIES IN INFORMATICS AND CONTROL

articles / book

- John Craig, Introduction to Robotics: Mechanics and Control
- Bruno Siciliano and Oussama Khatib, Handbook of Robotics
- Bruno Siciliano, Robotics Modelling, Planning and Control
- Sebastian Thrun, Probabilistic Robotics
- William Brogan, Modern Control Theory
- Kevin M. Lynch and Frank C. Park, Modern Robotics Mechanics, Planning, and Control

... in ai/ml:

conferences AAAI, ICML, SIGKDD, NeurIPS, ACL, ICLR

journals

- Journal of Information and Organizational Sciences
- Mining Science
- International Journal of Artificial Intelligence
- Transactions on Machine Learning and Artificial Intelligence
- Information Fusion
- International Journal of Intelligent Systems

articles / book

- Trevor Hastie, The Elements of Statistical Learning:
- Stuart J. Russell and Peter Norvig, Artificial Intelligence: A Modern Approach
- Aurelien Geron, Hands-on Machine Learning with Scikit-Learn and Tensorflow
- Christopher M. Bishop, Pattern Recognition and Machine Learning
- Kevin Murphy, Machine Learning: A Probabilistic Perspective
- Goodfellow, Deep Learning

... in pattern recognition / cv:

conferences CVPR, ICCV, ECCV, ACMMM, ICIP, ICPR

journals

- Journal on Image and Video Processing
- INTERNATIONAL JOURNAL OF ADVANCES IN SIGNAL AND IMAGE SCIENCES
- Advances in Image and Video Processing
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Geoscience and Remote Sensing Magazine
- Medical Image Analysis

articles / book

- Richard Szeliski, Computer Vision: Algorithms and Applications
- Simon Prince, Computer Vision: Models, Learning, and Inference
- Klette, Concise Computer Vision

- David Forsyth and Jean Ponce, Computer Vision: A Modern Approach
- ResNet, Deep Residual Learning for Image Recognition
- AlexNet, ImageNet Classification with Deep Convolutional Neural Networks

Robotics

Task 3: Find survey/tutorial articles on the following subjects:

motion planning

URL Link.

Search term

localization

URL Link.

Search term

object recognition

URL Link.

Search term

(machine) learning

URL Link.

Search term

fuzzy control

URL Link.

Search term