MAS ISW Assignment 2

Simon Deussen

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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

- ullet robot navigational system
- \bullet detection
- \bullet diagnosis
- \bullet environments
 - dynamic
 - indoor
- \bullet mobile robots
- paper type
 - background
 - survey
- \bullet 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, s 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

\dots 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, attern Recognition and Machine Learning
- Kevin Murphy, Machine Learning: A Probabilistic Perspective
- Goodfellow, Deep Learning

... in pattern recognition / cv:

 ${\bf conferences}\ {\bf CVPR},\ {\bf ICCV},\ {\bf ECCV},\ {\bf ACMMM},\ {\bf ICIP},\ {\bf ICPR}$

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

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

motion planning

 $\mathbf{URL} \ \mathrm{Link}.$

Search term survey paper motion planning

localization

URL Link.

Search term survey paper localization

object recognition

URL Link.

Search term object recognition survey paper

(machine) learning

URL Link.

Search term survey paper machine learning

fuzzy control

URL Link.

Search term survey paper fuzzy control