MIND MAP

设计师如何迎接智能时代
Design for Intelligence

ARTIFICIAL INTELLIGENCE

Experts Systems
- Inference Engine
  - Ontology Classifiation
  - Fuzzy Logic
  - Hypothetical Reasoning
  - Truth Maintenance
  - Forward Chaining
  - Backward Chaining
- Knowledge Base
  - Bayesian Networks (BN)
  - Expert Knowledge

Planning, Sheduling, Optimising
- Planning
  - Classical
  - Markov Decision Process (MDP)
- Scheduling
- Optimising

Machine Learning (ML)
- Computational Learning
- Unsupervised Learning
- Deep Learning
- Supervised Learning
- Pattern Recognition
- Reinforcement Learning
- Decision Tree Learning
- Association Rule Learning
- Artificial Neural Networks
- Inductive LogicProgramming
- Support Vector Machines
- Learning Classifier Systems
- Rule-base Machine Learning
- Genetic Algorithms
- Sparse Dictionary Learning
- Similarity and Metric Learning
- Representation Learning
- Bayesian Networks
- Clustering

Speech
- Speech to Text
- Text to Speech

Sensing
- Gestures
- Touch
- Emotion

Natural Language Processing (NLP)
- Text Generation
- Question Answering
- Machine Translation
- Content Extraction
- Classification

Personality
- Social Intelligence
- Artificial Emotions

Computer Vision (CV)
- Image Recognition
- Machine Vision

Robotics
- Object Manipulation
- Navigation
  - Motion Planning
  - Localization
  - Mapping
  - Path Planning