

AIをどう使っていくべきか？

～社会インフラへの適用～



JFE Engineering

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section 1

AI技術概論

人工知能

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人工知能

人間に代わって、知的行動をコンピューターに行わせる技術



実現の1手段

機械学習

自律的に、データからパターンを見出すプログラム

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進化アルゴリズム (GA etc...)

強化学習 ファジー制御

ニューラルネットワーク/ディープラーニング

ベイズ推論 事例ベース推論

AIを実現する技術

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History of artificial intelligence

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第一世代 → 1940年～1970年

↓

第二世代 → 1980年～1990年

↓

第三世代 → 2006年～

冬の時代 その1

冬の時代 その2

AIの歩み

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最初のコンピュータやコンピュータ言語の登場

人工ニューロン パーセプトロン ルールベースシステム

1943年 1947年 1958年 1962年 1974年

人工知能の概念 遺伝的アルゴリズム

第一世代

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