Transforming Wikipedia into a Search Engine for Local Experts

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Familiar way to look for knowledge
Unfamiliar knowledge source
Domain vocabulary - pivot

- Concurrent computing methodologies
  - Concurrent programming languages
  - Concurrent algorithms

- Applied computing
  - Electronic commerce
    - Digital cash
    - E-commerce infrastructure
    - Electronic data interchange
    - Electronic funds transfer
    - Online shopping
    - Online banking
    - Secure online transactions
    - Online auctions

- Enterprise computing
  - Enterprise information systems
    - Intranets
    - Extranets
    - Enterprise resource planning
    - Enterprise applications
    - Data centers
  - Business process management
    - Business process modeling
    - Business process management systems
    - Business process monitoring
    - Cross-organizational business processes
    - Business intelligence
  - Enterprise architectures
    - Enterprise architecture management
    - Enterprise architecture frameworks
    - Enterprise architecture modeling
  - Service-oriented architectures
  - Event-driven architectures
  - Business rules
  - Enterprise modeling
  - Enterprise ontologies, taxonomies and vocabularies
  - Enterprise data management
  - Reference models
  - Business-IT alignment
  - IT architectures
  - IT governance
  - Enterprise computing infrastructures
  - Enterprise interoperability
    - Enterprise application integration
    - Information integration and interoperability

- Physical sciences and engineering
  - Aerospace
    - Avionics
  - Archaeology
Artificial intelligence article in Wikipedia

Supervised learning

http://raweb.inria.fr/rapportsactivite/RA2014/tao/uid70.html

Inria report from the TAI team

ACM vocabulary
Artificial intelligence: Supervised learning: http://raweb.inria.fr/rapportsactivite/RA2014/tao/uid70.html: TAO

https://opendata1.opendata.u-psud.fr/sparql/
// [[d:User:Ggrefen/DisplayInriaTeam2.js]]
Artificial intelligence

From Wikipedia, the free encyclopedia.

"AI" redirects here. For other uses, see AI and Artificial intelligence (disambiguation)

Artificial intelligence (AI) is the intelligence exhibited by machines or software. It is all intelligent behavior. Major AI researchers and textbooks define this field as "the study as maximizing its chances of success."[1] John McCarthy, who coined the term in 1955,[2] def

https://en.wikipedia.org/wiki/Artificial_intelligence

- Supervised learning: TAO (Machine Learning and Optimisation). Source: 2014 Annual report
- Support vector machines: ALPAGE (Large-scale deep linguistic processing). Source: 2014 Annual report
- Support vector machines: BONSAI (Bioinformatics and Sequence Analysis). Source: 2014 Annual report

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Multi-objective AI Planning

This activity had almost stopped since the end of the DESCARWIN ANR project. However, a product in the ZenoTravel domain together with an exact solver ensuring the knowledge of the true Pareto front can be a solution.

Algorithm Selection

Algorithm Selection can be viewed as a Collaborative Filtering problem, in which a problem "likes" are provided at various stages in the騙on. This idea has also been applied for Process Management at the University of Technology of Ealing. The idea is also applied in a context of aerodynamics and car industry.

Outlier rejection in classification

An original approach based on One-Class SVM has been proposed during Blaise Hanczar's on year at a conference.

Learning sparse representations by auto-encoders

Auto-encoders (AE) are a widely used tool for unsupervised learning, which consists of a neural net with fewer than the usual number of nodes in smaller layers. The usual training criterion is the reconstruction error, however, the usual data representation. In [3], we formalize this latter criterion using Minimum Description Length (MDL) constraints on the reconstruction error. The MDL criterion has an interpretation as a denoising reconstruction contrary to the literature on denoising AE. More surprisingly, AE (aka Auto-associators) can also be context of supervised learning [4].
or any Corpus of text

or any domain vocabulary
Thank you!

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