

Search and Data Mining: Techniques

Introduction

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Data Analytics: Conference Sections

- **Fundamentals for data analytics**
- **Mechanisms and features**
- **Big Data**
- **Huge data**
- **Target analytics**
- **Application-oriented analytics**
- **Sentiment/opinion analysis**

Fundamentals for data analytics

- Tools, frameworks and mechanisms for data analytics
- Open API for data analytics
- In-database analytics
- Pre-built analytics (pattern, time-series, clustering, graph, statistical analysis, etc.
- Analytics visualization
- Multi-modal support for data analytics
- Google/FaceBook/Twitter/etc. analytics
- High-performance data analytics

Mechanisms and features

- Scalable data analytics
- Big data analytics
- Deep data analytics
- Mass data analytics
- Storing, dropping and filtering data
- Relevant/redundant/obsolete data analytics
- Volume vs. semantics analytics
- Nomad analytics
- Predictive analytics
- Trust in data analytics
- Legal issues analytics
- Failure on data analytics

Big Data

- Foundational models for Big Data
- Big Data Analytics and Metrics
- Big Data processing and management
- Big Data search and mining
- Big Data platforms
- Big Data persistence and preservation
- Big Data and social networks
- Big Data economics

Huge data

- Knowledge Discovery from Huge Data
Computational Intelligence for Huge Data
Linked Huge Data
Security Intelligence with Huge Data

Target analytis

- Business analytics
- Malware analytics
- Cyber-threats analytics
- Mining user logs
- Reputation analytics
- User choice analytics
- Branding analytics
- Utility proximity-search analytics
- Survey-based online asset analytics
- Online employment analytics
- Geology analytics
- Global climate analytics
- Remote learning analytics
- Homecare analytics
- Population growth and migration analytics
- Food-borne illness outbreaks analytics

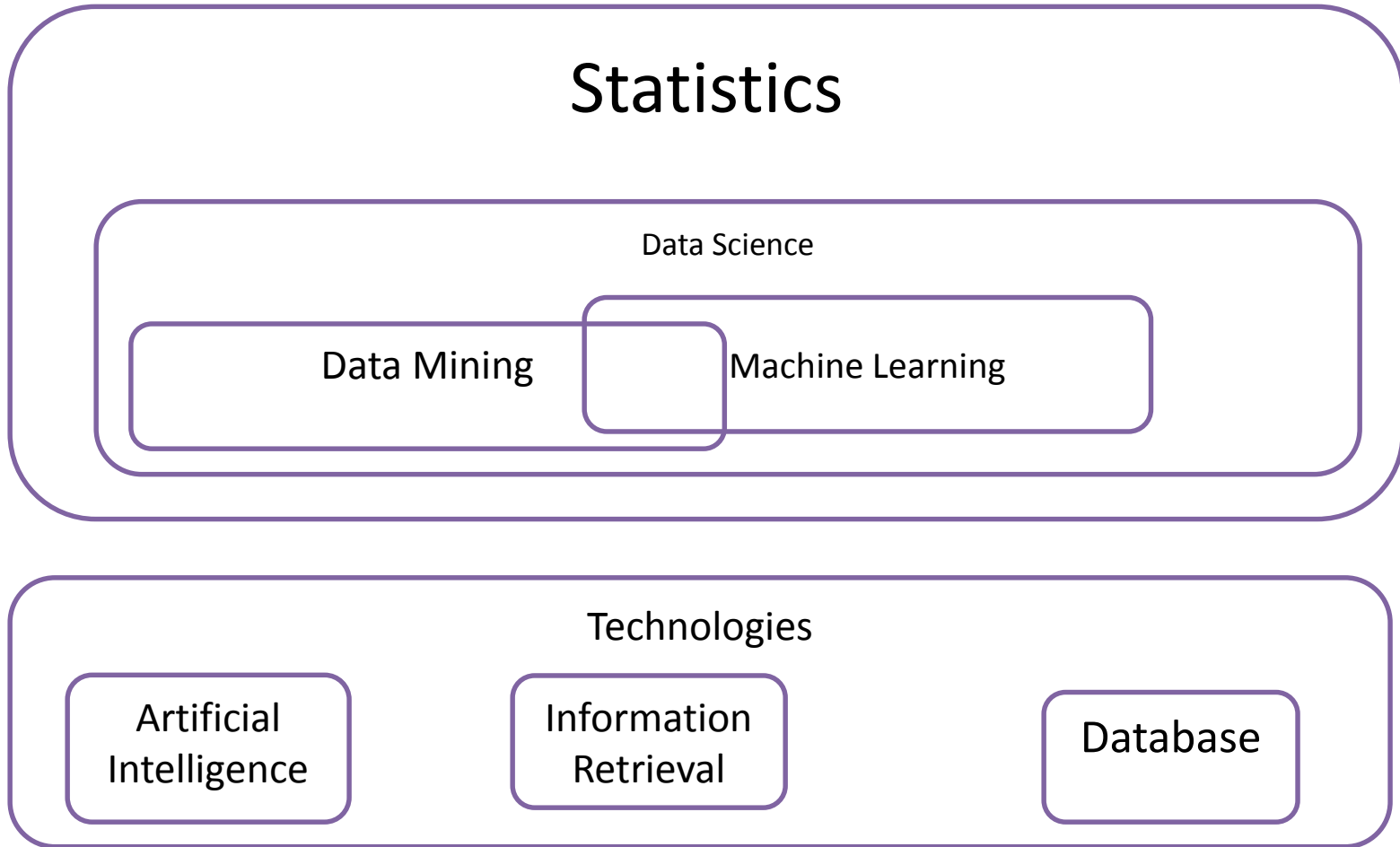
Application-oriented analytics

- Statistical applications
- Simulation applications
- Crawling web services
- Cross-database analytics
- Forecast analytics
- Financial risk management
- ROI analytics

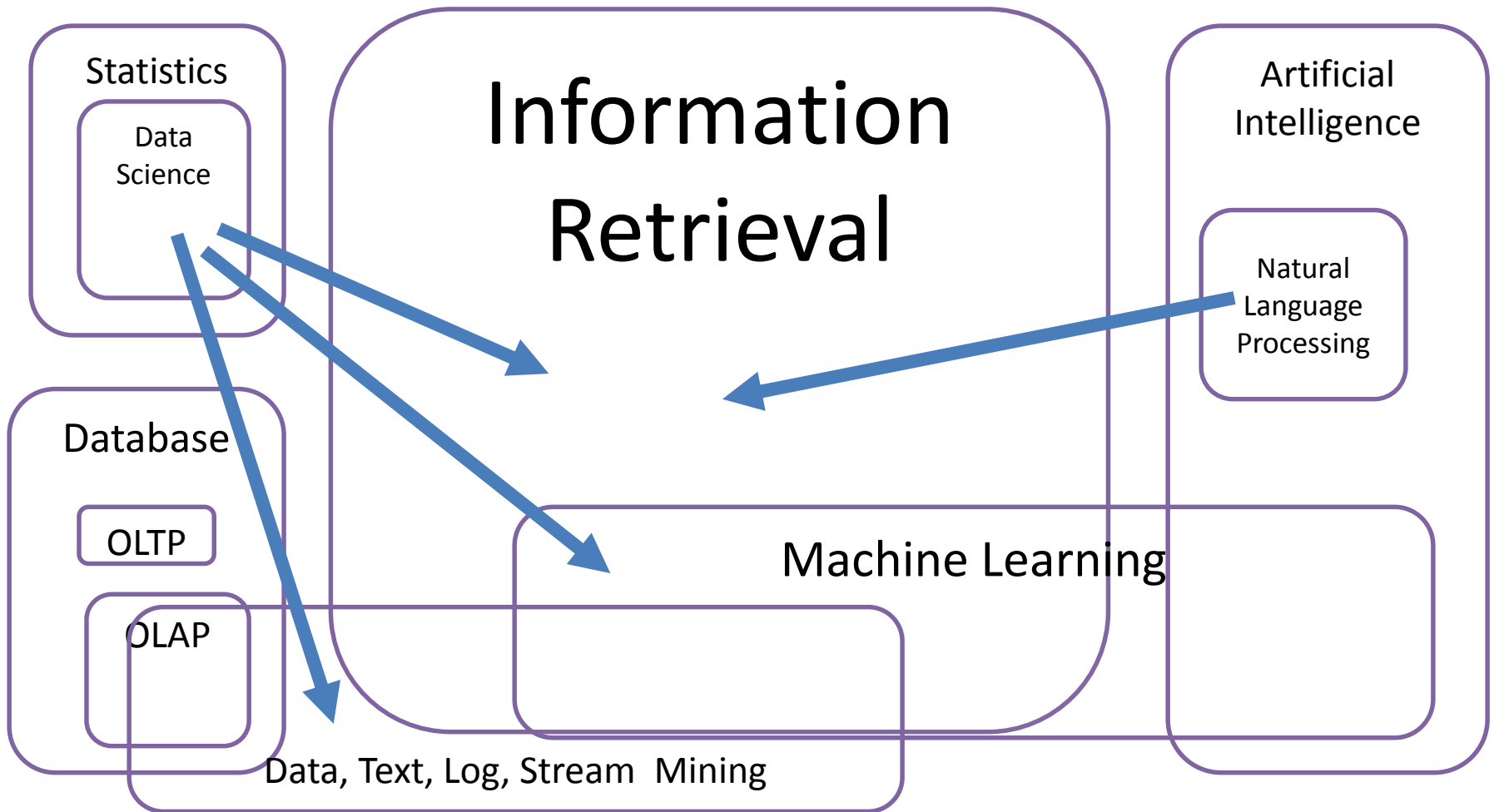
Sentiment/opinion analysis

- Architectures for generic sentiment analysis systems
- Sentiment analysis techniques on social media
- Document-level analysis
- Sentence-level analysis
- Aspect-based analysis
- Comparative-sentiment analysis
- Sentiment lexicon acquisition
- Optimizing sentiment analysis algorithms
- Applications of sentiment analysis

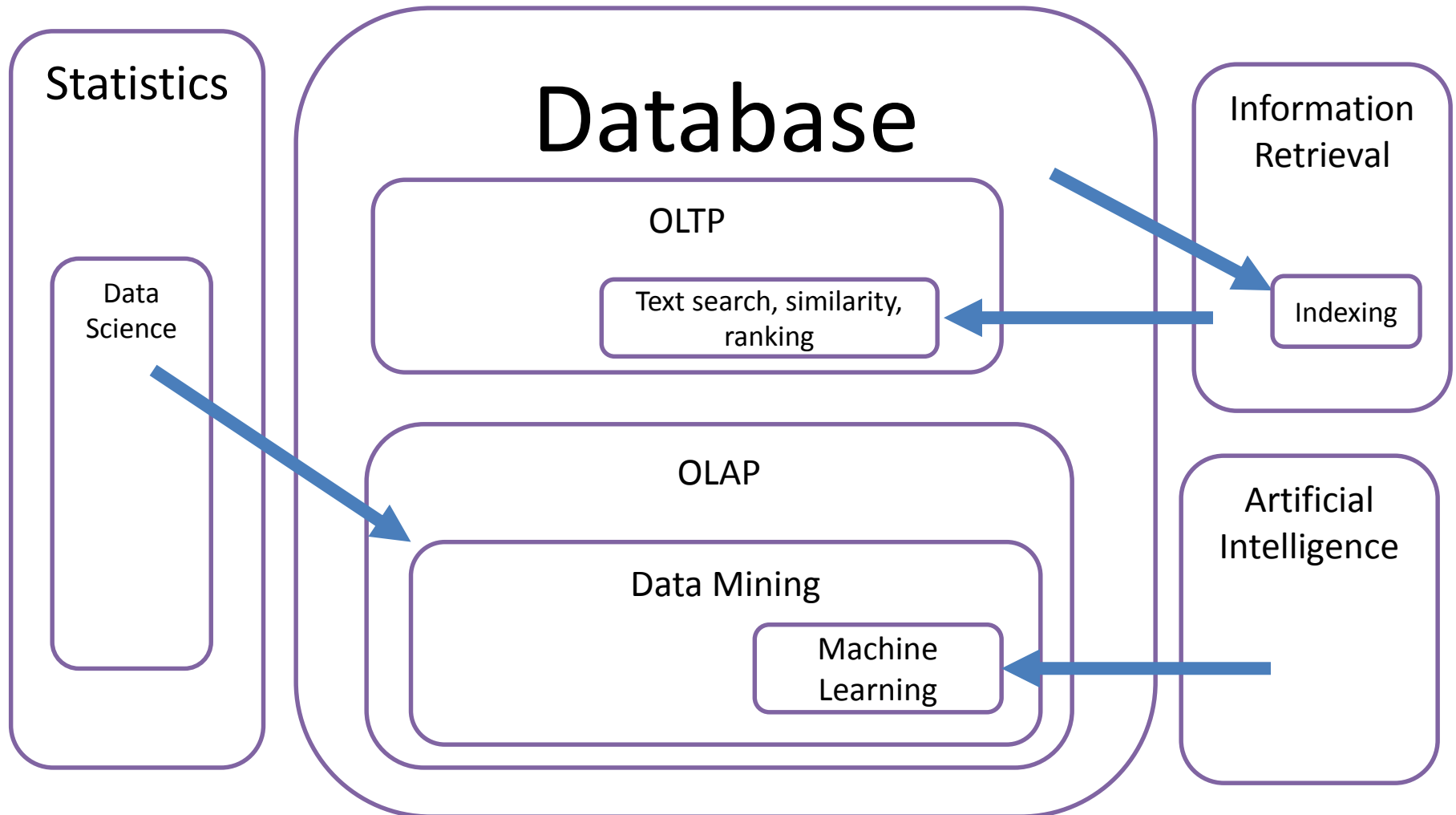
Statistic-Centered Viewpoint



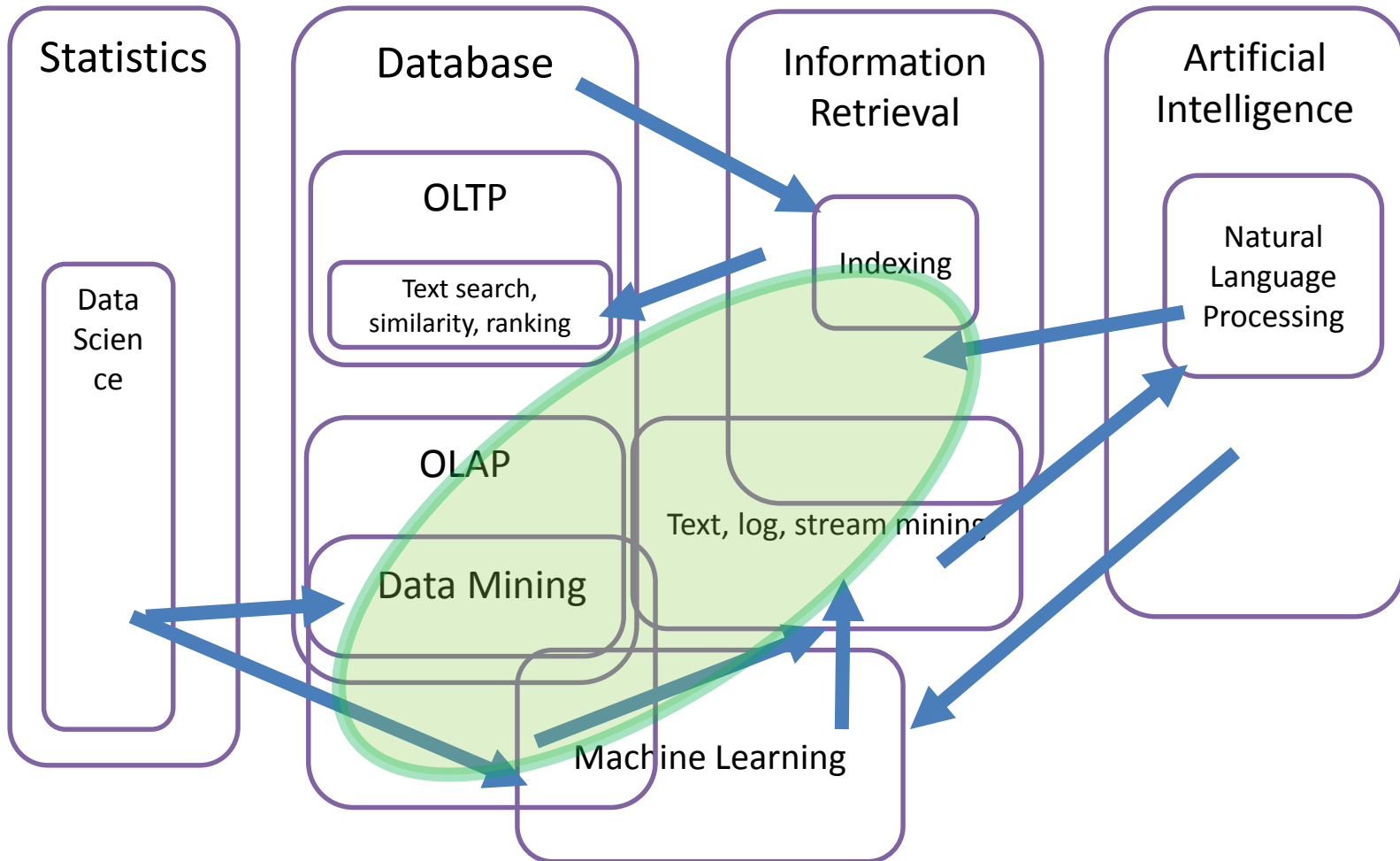
IR-Centered Viewpoint



Database-Centered Viewpoint (the RIGHT ONE)



BalancedViewpoint



Topics to Covered

1. Data Preprocessing
2. OLAP Modeling and Presentation
3. Mining Association rules
4. Information Retrieval: Text search
5. Text processing
6. Mining: Classification
7. Extractomg frp, Data streams
8. Mining: Cluster Analysis
9. Back to the Earth: Applications