

10 Challenging Problems in Data Mining Research

prepared for ICDM 2005

1. Developing a Unifying Theory of Data Mining

- The current state of the art of data-mining research is too "ad-hoc"
 - techniques are designed for individual problems
 - no unifying theory
- Needs unifying research
 - Exploration vs explanation
- Long standing theoretical issues
 - How to avoid spurious correlations?
- Deep research
 - Knowledge discovery on hidden causes?
 - Similar to discovery of Newton's Law?

An Example (from Tutorial Slides by [Andrew Moore](#)):

- VC dimension. If you've got a learning algorithm in one hand and a dataset in the other hand, to what extent can you decide whether the learning algorithm is in danger of overfitting or underfitting?
 - formal analysis into the fascinating question of how overfitting can happen,
 - estimating how well an algorithm will perform on future data that is solely based on its training set error,
 - a property (VC dimension) of the learning algorithm. VC-dimension thus gives an alternative to cross-validation, called Structural Risk Minimization (SRM), for choosing classifiers.
 - CV, SRM, AIC and BIC.

2. Scaling Up for High Dimensional Data and High Speed Streams

- Scaling up is needed
 - ultra-high dimensional classification problems (millions or billions of features, e.g., bio data)
 - Ultra-high speed data streams

10 Challenging Problems In Data Mining Research

RJ Shavelson



10 Challenging Problems In Data Mining Research:

Unveiling the Power of Verbal Art: An Emotional Sojourn through **10 Challenging Problems In Data Mining Research**

In some sort of inundated with monitors and the cacophony of instantaneous connection, the profound power and mental resonance of verbal artistry often diminish into obscurity, eclipsed by the continuous assault of sound and distractions. Yet, nestled within the musical pages of **10 Challenging Problems In Data Mining Research**, a charming perform of fictional beauty that impulses with natural thoughts, lies an memorable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this mesmerizing opus books visitors on a psychological odyssey, gently revealing the latent potential and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is central themes, dissect their fascinating writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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