

STATISTICAL ANALYSIS AND DATA MINING

Research Article

Quantitative Horizon Scanning for Mitigating Technological Surprise: Detecting the Potential for Collaboration at the Interface*Carey E. Priebe , Jeffrey L. Solka, David J. Marchette, Avory C. Bryant

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Abstract

'The identification of potential breakthroughs before they happen' is a vague data analysis problem and 'the scientific literature' is a massive, complex dataset. Hence QHS for MTS might seem to be prototypical of the data miner's lament: 'Here's some data we have... can you find something interesting?' Nonetheless, the problem is real and important, and we develop an innovative statistical approach thereto—not a final etched - in - stone approach, but perhaps the first complete quantitative methodology explicitly addressing QHS for MTS. © 2012 Wiley Periodicals, Inc. Statistical Analysis and Data Mining5: 178–186, 2012

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