Towards Content-Based Essay Scoring

State-of-the-art automated essay scoring engines such as e-rater do not grade essay content, focusing instead on providing diagnostic trait feedback on categories such as grammar, usage, mechanics, style and organization. Content-based essay scoring is very challenging: it requires an understanding of essay content and is beyond the reach of today’s automated essay scoring technologies. As a result, content-dependent dimensions of essay quality are largely ignored in existing automated essay scoring research. In this talk, we describe our recent and ongoing efforts on content-based essay scoring, sharing the lessons we learned from automatically scoring one of the arguably most important content-dependent dimensions of persuasive essay quality, argument persuasiveness.

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