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arXiv:1704.04368 (cs)

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# Get To The Point: Summarization with Pointer-Generator Networks

[Abigail See](#), [Peter J. Liu](#), [Christopher D. Manning](#)[Download PDF](#)


Neural sequence-to-sequence models have provided a viable new approach for abstractive text summarization (meaning they are not restricted to simply selecting and rearranging passages from the original text). However, these models have two shortcomings: they are liable to reproduce factual details inaccurately, and they tend to repeat themselves. In this work we propose a novel architecture that augments the standard sequence-to-sequence attentional model in two orthogonal ways. First, we use a hybrid pointer-generator network that can copy words from the source text via pointing, which aids accurate reproduction of information, while retaining the ability to produce novel words through the generator. Second, we use coverage to keep track of what has been summarized, which discourages repetition. We apply our model to the CNN / Daily Mail summarization task, outperforming the current abstractive state-of-the-art by at least 2 ROUGE points.

Comments: Add METEOR evaluation results, add some citations, fix some equations (what are now equations 1, 8 and 11 were missing a bias term), fix url to pyrouge package, add acknowledgments

Subjects: **Computation and Language (cs.CL)**

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## Submission history

From: Abigail See [[view email](#)]**[v1]** Fri, 14 Apr 2017 07:55:19 UTC (124 KB)**[v2]** Tue, 25 Apr 2017 05:47:50 UTC (125 KB)☐ Bibliographic Tools

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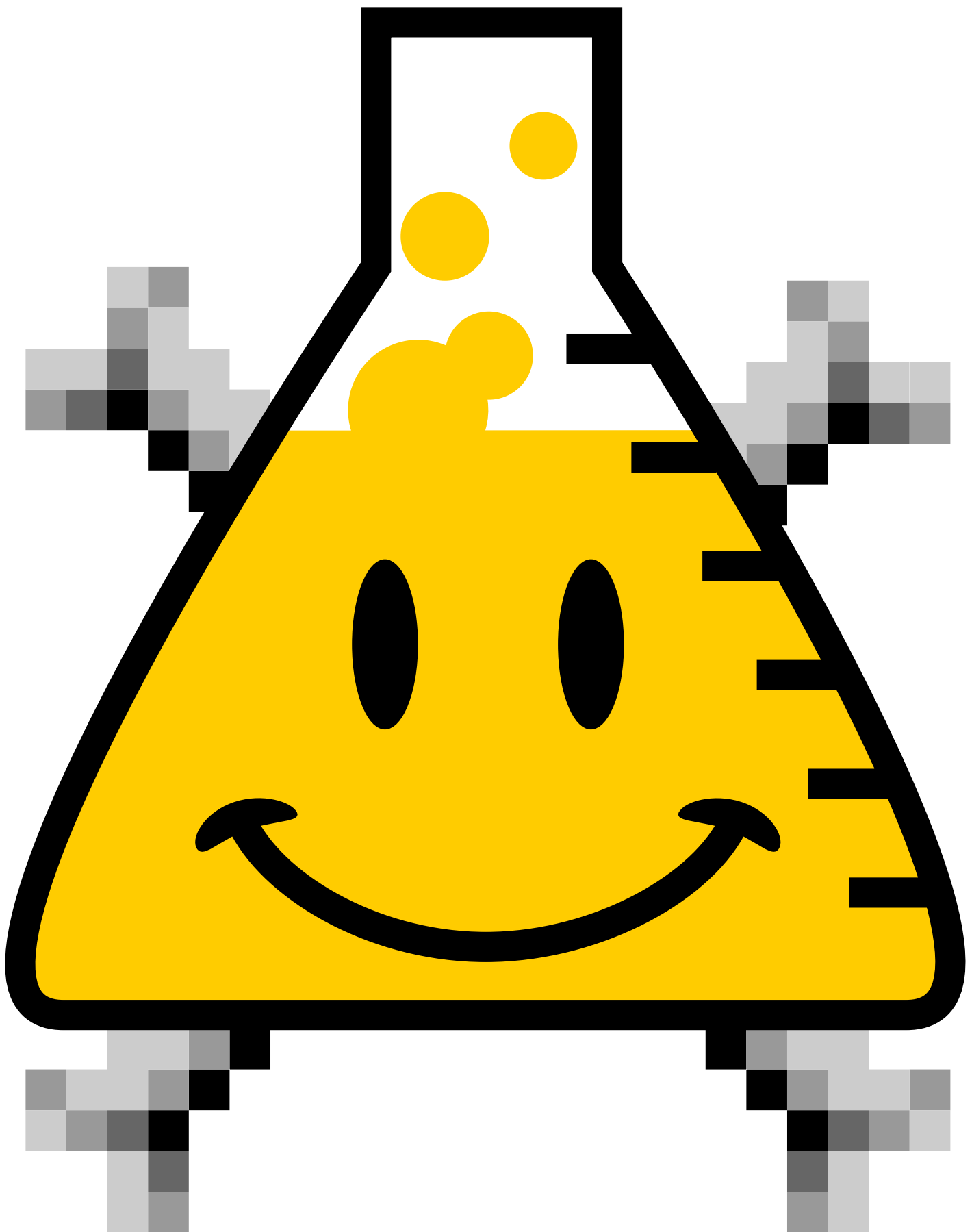
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