* Reading Guidelines
  + Title/Abstract/Figures
  + Intro/Conclusion/Figures/Skip Math
  + Read entire text but skip math
  + The math (if essential)
  + Parts that do not make sense
* SURVERY TEXT SUMMARIZATION

1. What Did the Authors Try to accomplish?

The authors tried to survey a comprehensive set of approaches to extractive text summarization. Namely unsupervised, supervised, and classical sentence extraction-based methods while slightly highlighting the pros and cons of each approach and the overall key challenges in the field and what direction they recommend future research needs to go to push the field forward.

1. What was the key elements of the approach they used?

A quick overview of each technique presented with supporting figures to illustrate results and where appropriate examples of usage and finally highlighting advantages and disadvantages of each approach.

1. What can you use yourself?

I think LSA and matrix composition approaches are interesting to intuitively understand how they can be applied to text summarization.

1. What references or citations would you like to follow further?

M. G. Ozsoy, F. N. Alpaslan, and 1. Cicekli, "Text summarization using latent semantic analysis," Journal of Information Science, vol. 37, no. 4, pp. 405-417, 2011.

V. Gupta and G. S. Lehal, "A survey of text summarization extractive techniques," Journal of emerging technologies in web intelligence, vol. 2, no. 3, pp. 258-268, 2010.

F. Chen, K. Han, and G. Chen, "An approach to sentence-selection based text summarization," in TENCON'02. Proceedings. 2002 IEEE Region 10 Conference on Computers, Communications, Control and Power Engineering, vol. 1. IEEE, 2002, pp. 489-493.

* Text Summarization Techniques: A Brief Survey

1. What Did the Authors Try to accomplish?

They are trying to provide good insight into the state-of-the-art research in extractive text summarization and they wrote their work as a gateway to other papers.

1. What was the key elements of the approach they used?

Deeply extensive coverage over 90 cited papers, where they bring a clear overview of the state of the field as of today. They covered the general idea of each method while discussing its pros and cons, however they did not directly discuss the cons as they referred this to papers that go in depth.

1. What can you use yourself?

Learning about the non-deep learning approaches to have an appreciation of the added benefit of deep learning. Most interesting thing I learned was that in AI/ML the utility or intuition of math is more important. We are not mathematicians.

1. What References or citations would you like to follow further?

None so far as they do not cover deep learning in this paper.

* Extractive Text Summarization using Deep Learning

1. What Did the Authors Try to accomplish?

The authors attempted to author an improved DL approach for extractive text summarization, current techniques used 2 RBMs on average while the author used only 1 with 9 perceptrons.

1. What was the key elements of the approach they used?

The author used RBM’s for latent factor extraction rather than low level features, the lower level features were engineered based pre-DL approaches. The author selected 9 key low-level features that were later presented to the RBM to extract hierarchal features.

1. What can you use yourself?

Using RBMs for latent factors instead of more widely spread techniques like LSA and LDA.

1. What References or citations would you like to follow further?

Supervised and semi-supervised learning for Extractive summarization.

* Extractive Text Summarization using Supervised and Semi-supervised Learning

1. What Did the Authors Try to accomplish?
2. What was the key elements of the approach they used?
3. What can you use yourself?
4. What References or citations would you like to follow further?