

On page 1:

1. The authors are trying to abbreviate emergency response standards to ERSs a couple of times. It is better if you abbreviate repeated emergency response standard to ERS, just do it once and in the next sentences use either of them.
2. "there are some problems in standard digitalization 32 transformation in **our country**" -> our country?! Should name the country.
3. specialist knowledge -> knowledge specialist

on Page 2:

4. you defined knowledge graphs in two sentences? Reading following paper is strongly recommended:

Zamini, Mohamad, Hassan Reza, and Minou Rabiei. "A Review of Knowledge Graph Completion." Information 13, no. 8 (2022): 396.

I expect the authors mention what is knowledge graph? As you mentioned knowledge base, please look at the suggested paper and mention what is the difference between knowledge graphs and knowledge base. (Page 1, Paragraph 1)

5. other than that, you mentioned "knowledge graph methods", methods for what? Node classification, link prediction, KG construction, KG completion?
6. Firstly, it constructs an emergency response standard (ERS)-> it? What is it? Again using ERS and emergency response standard at the same time!

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7. Mention what is ISO and IEC.
8. Using KG to sort out the content of standard documents, the analysis and research of standard documents can be better carried out [19]. => the sentence grammatically doesn't sound right. Please rewrite it.
9. Using "it" in this paper is a lot! Please do something with this problem.
10. In second paragraph if you are analyzing previous papers mention what is the results and benefits from using KG? how they used it? What are their issues?
11. Authors didn't mention

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12. "This paper constructs an **unstructured ontology structure** through ERS content analysis": how can an unstructured ontology be structured?!

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13. "The links of relations form the semantic network of the KG.": links and relations are the same in knowledge graph concept. Links of relations is meaningless.

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14. hierarchical and nonhierarchical relations definitions are not quite right. hierarchical relations are the broader and narrower (parent/child) relationships between logical records (where each

record represents a concept). While Non-hierarchical is a way to practice multiple simultaneous relationships without imposing hierarchies.

15. The arrows on fig 4 is not clear. The notations of the arrows blocks it.
16. Scholars have already carried out related research.-> what research? What was their result? What did they do? What is the citation to that work?
17. Step3: Standard knowledge extraction. Based on data annotation, the entities, relations, and attributes are extracted by using deep learning methods.-> what deep learning method? Be more precise!
18. It takes the "6 13" significant gas explosion accident in Shiyan City, Hubei Province, in 2021 as an example. -> what is this? This is a sample? What is the result of applied model to it? You Started the paragraph with an example without any explanation.
19. Where is the technical discussion about the details of your work? How did you construct the knowledge graph? How did you deal with different challenges in constructing a knowledge graph? What knowledge representation model have you used?
20. Where is the results? What is your analysis of your work? How did knowledge graph helped you?
21. Why BERT+BiLSTM+CRF?
22. Add more 2022 citation papers. One can be the paper I mentioned. You have 2 papers from this year and we expect more citations from 2022.