ANALYZING A JOURNAL ARTICLE 5

NAME: Sushmitha.S DATE: 11-04-2022

JOURNAL ARTICLE TITLE: Research and Design of Subway BAS Intrusion Detection Expert System.

Step 1. What is the purpose/hypothesis/aim/objective of the study?

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| a. Write down the exact statement in which the authors describe what they were testing. (Hint: This information may be provided in the article as a purpose statement or as a hypothesis). Include quotation marks around the exact wording, and indicate page number(s). | “The paper focuses on the design of knowledge base and the inference engine of intrusion detection system based on expert system.”(Page number: 152) |
| b. Now describe the purpose of the study (as you understand it) in your own words. | The paper focused on the knowledge based inference engine based intrusion detection system. |
| c. What was the “gap” in the research that the authors were trying to fill by doing their study? | This study laid the foundation for the research on information security of the entire rail transit system. |

Step 2. What is/are the major finding(s) of the study?

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| a. Make some notes about the authors’ major conclusions or findings as written in the article. Include quotation marks whenever you use their exact wording, and indicate page number(s). | “Based on the expert system, this paper designs the BAS intrusion detection expert system for the intrusion detection and misoperation of the subway environment control subsystem, and introduces the knowledge base and inference engine design in the expert system in detail.”(Page number: 155) |
| b. Now write those conclusions (as you understand them) in your own words. | The system is used to identify anomalous attacking and prevent the system by the defined rule. |

Step 3. How did the authors test their hypothesis?

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| a. Briefly summarize the main steps  or measurements that the authors used in their methods. Try to explain in your own words as much as possible. | 1. Rule-based expert system. 2. Structure of Intrusion Detection Based on Expert System. 3. Intrusion Detection Expert System Workflow. 4. Design of knowledge base. 5. The design of the inference engine. |
| b. Do the authors suggest any problems or limitations with their methodology? Do you see any problems or limitations with their methodology? | NO. |
| c. How did the authors analyse their data? What test/s did they use? | 1)System initialization. 2)Acquisition packet.  3)Packet filtering. 4)Feature extraction. 5)Generate the fact. |

Step 4. How reliable are the results?

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| a. Do the authors suggest any problems with the study that could lead to unreliable results? | At present, this system is only an exploratory stage that has not yet been perfected. |

Step 5. Based on your analysis, are the claims made in this journal article accurate?

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| a. Do the conclusions made (about the results) by the author make sense to you? Are the conclusions too broad or too narrow based on what was actually done in the study? | Yes the conclusions make sense and too narrow. |
| b. Based on the accuracy of the methodology and the reliability of the results as described in Steps 3 and 4, do you think the conclusions can  be believed? | Can be believed. |

Step 6. What is the importance of this scientific work?

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| a. Write (in your own words) the significant contributions of the experimental work in this journal article as reported by the authors. | The authors tried Research and Design of Subway BAS Intrusion Detection Expert System to experiment . |
| b. Re-read your notes and explain why you think this is  o a strong or weak scientific article  o a strong or weak scientific study | It is a strong scientific study and a weak scientific article. |