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/  $\underline{\text{Semantic web and social networks}} \text{ / } \underline{\text{Knowledge graphs}} \text{ / } \underline{\text{Test - knowledge graph representation learning}}$ 

| Started on            | Monday, 27 November 2023, 12:20 PM  |
|-----------------------|---|
| State                 | Finished  |
| Completed on          | Monday, 27 November 2023, 12:29 PM  |
| Time taken            | 8 mins 46 secs  |
| Grade                 | <b>9.00</b> out of 15.00 ( <b>60</b> %)   |
| Question <b>1</b>     |   |
| Correct               |   |
| Mark 3.00 out of 3.00 |   |
|                       |   |
| According to the as   | sumptions made for the TransE model:  |
| O the embedding       | g vector t shall be close to h o r where o is the product of the corresponding elements h and r |
| O the embedding       | g vector h+t should be close to the vector r  |
| O the embedding       | g vector r shall be close to h o t where o is the product of the corresponding elements h and t |
| the embedding         | g vector h+r should be close to the embedding vector t❤   |
|                       |   |
| Your answer is corre  | ect.  |
| The correct answer    | is:   |
| the embedding vec     | tor h+r should be close to the embedding vector t   |

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|------------------|-----------|--------------|------------|--------|---------|
| Test - knowledge | granh rei | nrecentation | Learning   | Attemn | t revue |
| Test - knowledge | graphic   | presentation | icarining. | Aucinp | n icvic |

| Question <b>2</b>  |
|--|
| Correct  Mark 3.00 out of 3.00   |
| Mark 3.00 out 01 3.00  |
| TransE assumes that the embeddings of both entities and relationships are in the same space Rk |
| Select one:  |
| ○ False  |
| The correct answer is 'True'.  |
|  |
| Question <b>3</b>  |
| Incorrect  Mark 0.00 out of 3.00   |
|  |
| The embedding vectors are  |
| □ sparse   |
| ☑ dense ✔  |
| □ low-dimensional  |
| ✓ high-dimensional ★   |
| Your answer is incorrect.  |
| The correct answers are:   |
| dense,   |
| low-dimensional  |

2/3/2024, 6:05 PM

|        |            |          |              |           | A       | . •    |
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| Question <b>4</b> Correct Mark 3.00 out of 3.00   |
|---|
|   |
| What time of volationship pattern that are equivipally outlands are his represented by the following supressing:                            |
| What type of relationship pattern that can occur in a knowledge graph is represented by the following expressions:  1. Eve is Paul's sister |
| and   |
| 2. Paul is Anna's parent  |
| Based on 1 and 2:   |
| 3. Eve is Anna's aunt   |
|   |
| O transitivity  |
| O asymmetry   |
| O symmetry  |
| Your answer is correct.   |
| The correct answer is:  |
| composition   |
|   |
| Question <b>5</b> Incorrect   |
| Mark 0.00 out of 3.00   |
|   |
| Knowledge graphs generally contain true statements.   |
| Other statements (not contained in the graph) can be considered:  |
| false (according to the closed world assumption) but not missing *  |
| missing but not false (according to the closed world assumption)  |
| missing or false (according to the closed world assumption)   |
| Your answer is incorrect.   |
| The correct answer is:  |
| missing or false (according to the closed world assumption)   |

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