

Label Propagation Algorithm (LPA)

5/5 points (100.00%)

Practice Quiz, 5 questions

✓ **Congratulations! You passed!**

Next Item



1 / 1
points

1.

What type of edges does a taste graph have?



Directed edges

Correct

Correct, the taste graph is an oriented graph.



Undirected edges



Both types

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The taste graph is partly stochastic?

- ☐ If you take only the vertices of the same type from a taste graph then you will receive a stochastic graph
- ☒ If you take only the edges of the same type from a taste graph then you will receive a stochastic graph

Correct

Correct statement

- ☐ If you take only the edges of the same type and only vertices of the same type you will receive a stochastic graph



1 / 1
points

3.

Under the weight function ω_β graph G is a stochastic graph because

- ☐ It transforms weights of all the edges in a way that sum of all of them becomes equal to one
- ☐ It forces all the edges to have the same type
- ☒ For each vertex sum of weights of all the outgoing edges is equal to one

Correct

True. There is no way to trick you!



1 / 1

points

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Why is it convenient from a production view to split vertices and edges point of different types?

(Select statements that are true)

☐

different parts of the taste graph have to be constructed independently and then combined

**Correct**

Correct statement

☐

different parts of the graph can be updated at a different frequency, depending on the complexity of the update and the natural dynamics of the part.

**Correct**

Correct statement

☐

storing graph in such way will occupy less memory

**Un-selected is correct**

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points

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Practice Quiz, 5 questions

Zero balancing vertex θ

- ☐ Is added to make a graph stochastic
- ☐ Is added to make a graph partly stochastic
- ☒ Z is added to "drain" weights from the existing edges in case the amount of the outgoing edges from the vertex is below threshold

**Correct**

True

