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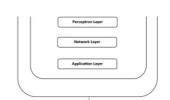
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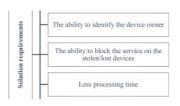


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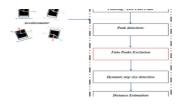


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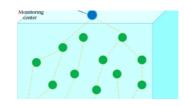


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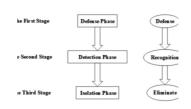
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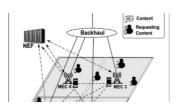


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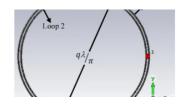


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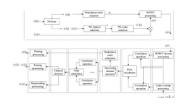


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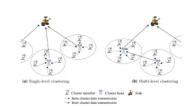
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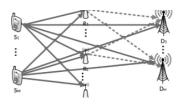
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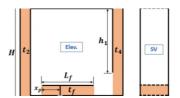


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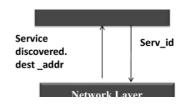


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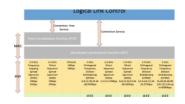


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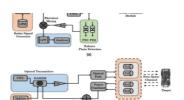
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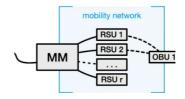


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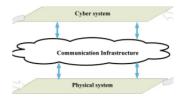


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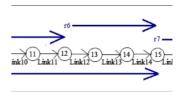


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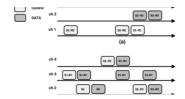


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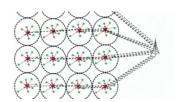


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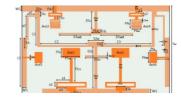


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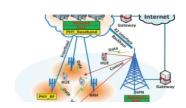


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Update current best position of whale
else if2 (|A|>1)

Select a whale random search agent (X_{r mid})

Update the best search agent in the whale
end if2
else if1 (p 0.5)

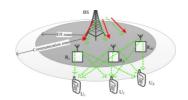
Undate best search agent mosition

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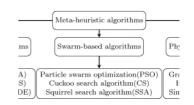


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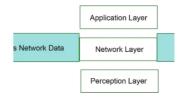


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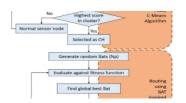
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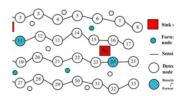


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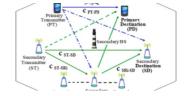
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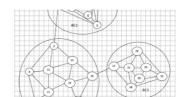
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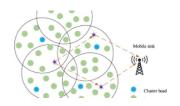
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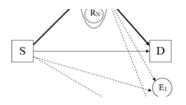
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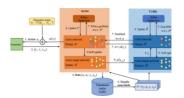


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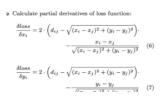


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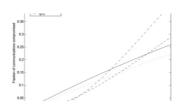


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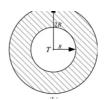
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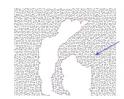
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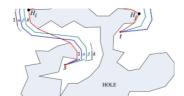


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