

**Progress** 

Carlos Padilla

equation

Task Execution

Overall Performano

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UML

Reward function

# **Project Progress**

Carlos Padilla enigmak9@protonmail.com

ICN, UNAM

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## Bellman's equation

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# Bellman's equation

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schema

$$V(s) = \max_{a} \{R(s, a) + \gamma V(s')\}$$
 (1)



## Task Execution Model

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$$\mathsf{M}_{j} = \left( \left[ I, t_{j}^{\prime}, \Delta t_{j}, P_{j}^{R}, P_{j}^{D} \right], \left[ W_{I}^{R}, W_{I}^{D} \right] \right)$$



## **Reward Function - Part 1**

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$$\xi_j = S_j P_j e^{\left(\frac{t_j^E - t_j^B}{\sigma}\right)^2} (P_j^D d_j g(k))$$



## **Overall Performance Metric**

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Reward function schema

$$\xi = \sum_{j=1}^{J} \xi_j + \frac{\alpha}{N} \sum_{i=1}^{N} \left( \frac{E_i - E_L}{E_{max} - E_L} \right)$$



# Design

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equation

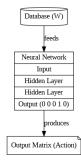
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### Reward function's schema

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