

-NoValue-

syn.1 Valorações and Satisfaction

mvl:syn:val:
sec

Definição syn.1 (Valorações). Let V be a set of truth values. A *valoração* for $\mathcal{L}$ into V is a function $\mathbf{v}$ assigning *um membro* of V to the *variáveis proposicionais* of the language, O.s., $\mathbf{v}: \text{At}_0 \rightarrow V$.

mvl:syn:val:
defn:pValue

Definição syn.2. Given a *valoração* $\mathbf{v}$ into the set of truth values V of a many-valued logic $\mathbf{L}$, define the evaluation function $\bar{\mathbf{v}}: \text{Frm}(\mathcal{L}) \rightarrow V$ inductively by:

1. $\bar{\mathbf{v}}(p_n) = \mathbf{v}(p_n)$;
2. If $\star$ is a 0-place connective, then $\bar{\mathbf{v}}(\star) = \tilde{\star}_{\mathbf{L}}$;
3. If $\star$ is an n -place connective, then

$$\bar{\mathbf{v}}(\star(\varphi_1, \dots, \varphi_n)) = \tilde{\star}_{\mathbf{L}}(\bar{\mathbf{v}}(\varphi_1), \dots, \bar{\mathbf{v}}(\varphi_n)).$$

mvl:syn:val:
defn:satisfaction

Definição syn.3 (Satisfaction). The *fórmula* φ is *satisfied* by a *valoração* $\mathbf{v}$, $\mathbf{v} \models_{\mathbf{L}} \varphi$, iff $\bar{\mathbf{v}}_{\mathbf{L}}(\varphi) \in V^+$, where V^+ is the set of designated truth values of $\mathbf{L}$.

We write $\mathbf{v} \not\models_{\mathbf{L}} \varphi$ to mean “not $\mathbf{v} \models_{\mathbf{L}} \varphi$.” If I is a set of *fórmulas*, $\mathbf{v} \models_{\mathbf{L}} I$ iff $\mathbf{v} \models_{\mathbf{L}} \varphi$ for every $\varphi \in I$.

Créditos das Imagens

Referências Bibliográficas