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$\nabla_{\mu} \nabla_{\nu} F^{\mu\nu} = \frac{1}{2} \partial_{\mu} \partial_{\nu} F^{\mu\nu} + \partial_{\mu} A_{\nu} \partial^{\mu} A^{\nu} - \partial_{\nu} A_{\mu} \partial^{\nu} A^{\mu}$

$\mathbf{F}(\cdot)$ is a function from \mathbb{R}^n to \mathbb{R}^m .

$n_{\mu}, \bar{n}_{\mu} \in \mathbb{R}^F$.

n'' , $\hat{A}F(.$
 n , $\hat{B}F(.$

Figure 1. The effect of the number of hidden neurons on the error of the neural network.

$n_{\mu}, \bar{n}_{\mu} \in \mathbb{R}^{\mathcal{F}(C)}$

$\mathbf{r}_{\mu}, \mathbf{r}_{\nu}, \mathbf{r}_{\rho}, \mathbf{r}_{\sigma}, \mathbf{r}_{\tau}, \mathbf{r}_{\omega}, \mathbf{r}_{\zeta}, \mathbf{r}_{\eta}, \mathbf{r}_{\theta}, \mathbf{r}_{\phi}, \mathbf{r}_{\psi}, \mathbf{r}_{\chi}, \mathbf{r}_{\psi}, \mathbf{r}_{\phi}, \mathbf{r}_{\theta}, \mathbf{r}_{\zeta}, \mathbf{r}_{\eta}, \mathbf{r}_{\omega}, \mathbf{r}_{\tau}, \mathbf{r}_{\sigma}, \mathbf{r}_{\rho}, \mathbf{r}_{\nu}, \mathbf{r}_{\mu}$

Γ''_n , $\Gamma\tilde{A}F(\cdot)$

$n_{\mu}, \bar{n}_{\mu} \in \mathbb{F}(x)$

$n_{\mu}, \bar{n}_{\mu} \in \mathbb{R}^F$, $\bar{n}_{\mu} = n_{\mu}$

$\Gamma_{\mu\nu}^{\alpha} = \frac{1}{2} g^{\alpha\lambda} (\partial_{\mu} g_{\nu\lambda} + \partial_{\nu} g_{\mu\lambda} - \partial_{\lambda} g_{\mu\nu})$

For example, if $\mathbf{F}(x) = x^2$, then $\mathbf{F}'(x) = 2x$.

$n_{\mu}, \bar{n}_{\mu} \in \mathbb{F}(x)$


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