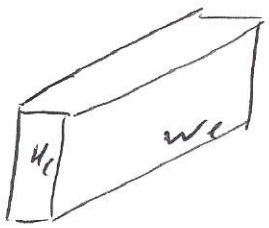
12.10.18 dl

$$G^l = \mathbb{E}\, z^l z^{lT}$$

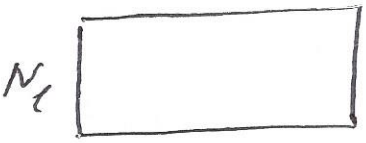
$$\underbrace{\| G^l(x) - G^l(x_s) \|_F^2}_{\mathcal{L}_{style}(x)} \to \min_x$$

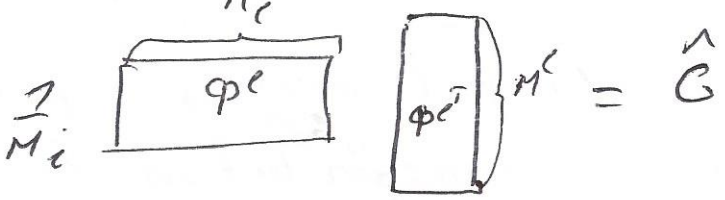
$$\hat{G}(x) = \frac{1}{M_l} \varphi^l(x)\, \varphi^l(x)^T$$

$$\mathcal{L}_{context}(x) = \| \varphi^l(x) - \varphi^l(x_s) \|_F^2 \to \min_x$$

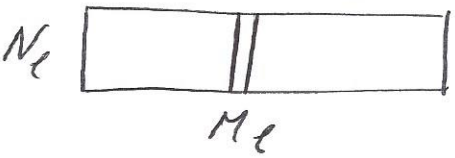


$F(x) \in \mathbb{R}^{N_l \times M_l \times W_l}$





$\varphi_{ij}^l(x) \in \mathbb{R}$

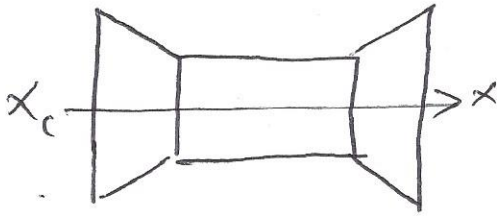


$$\{\varphi_{ij}^1(x)\}_{ij} \quad \{\varphi_{ij}^l(x_s)\}$$

MMD Maximum mean discrepancy statistic

$$\hat{x} = \underset{x}{\operatorname{argmin}} \{\mathcal{L}_{content}(x) + \alpha \mathcal{L}_{style}(x)\}$$

Online ST, reparamsp



[redacted]

$$3\frac{1}{6}^2 - 2\frac{1}{6} + 1 = -\frac{3}{2}\frac{1}{6_2} + 1 = -\frac{1}{4} + 1 = \frac{3}{4}$$

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