

$$\mathbf{x}^* = \operatorname{argmin}_{\mathbf{x}} F(\mathbf{x}) \quad \leftarrow \text{global error (scalar)}$$

$$= \operatorname{argmin}_{\mathbf{x}} \sum_i e_i(\mathbf{x}) \quad \leftarrow \text{squared error terms (scalar)}$$

$$= \operatorname{argmin}_{\mathbf{x}} \sum_i \mathbf{e}_i^T(\mathbf{x}) \Omega_i \mathbf{e}_i(\mathbf{x})$$

↑
error terms (vector)