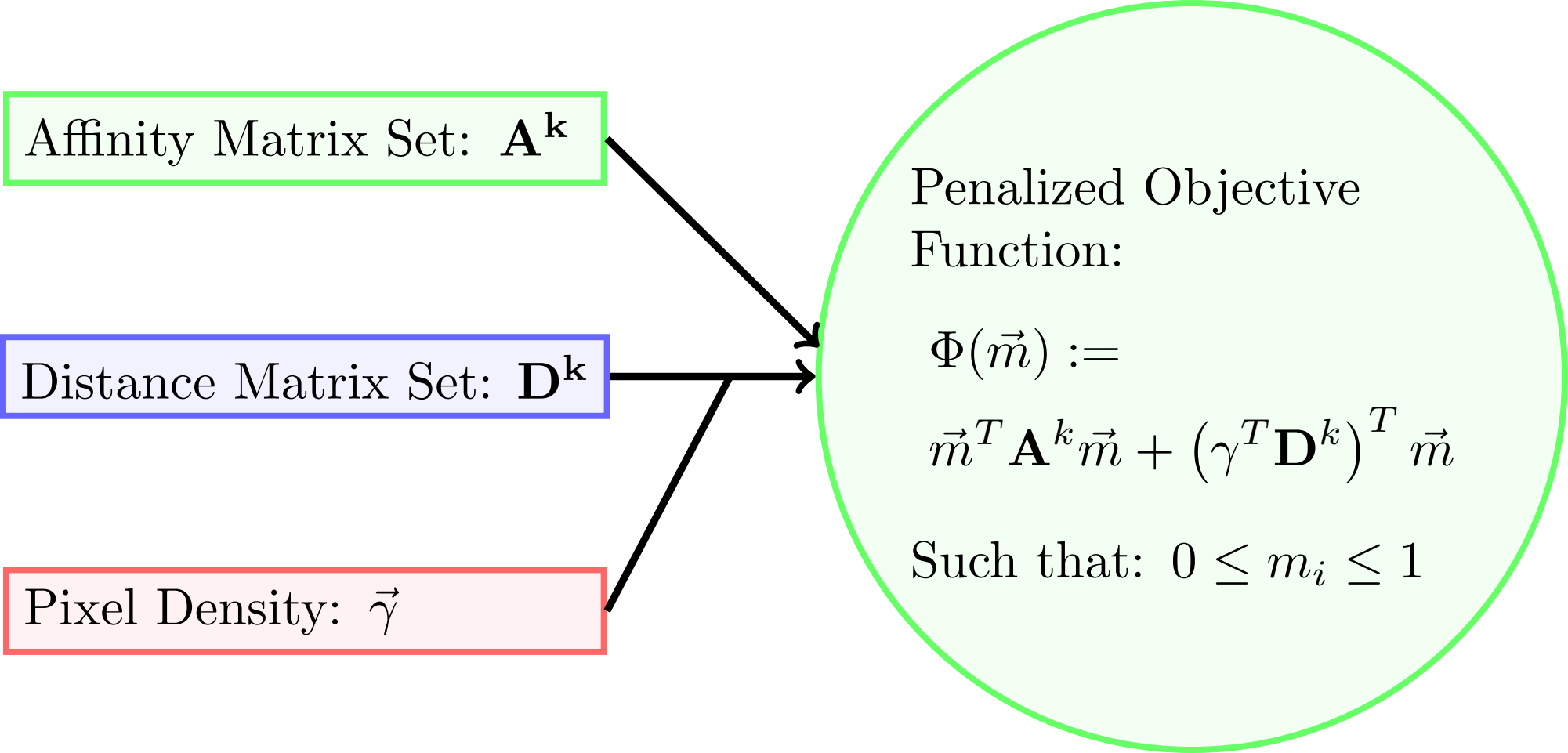
Affinity Matrix Set: $\mathbf{A^k}$
Distance Matrix Set: $\mathbf{D^k}$
Pixel Density: $\vec{\gamma}$
Penalized Objective Function:
$\Phi(\vec{m}) :=$
$\vec{m}^T \mathbf{A}^k \vec{m} + \left(\gamma^T \mathbf{D}^k\right)^T \vec{m}$
Such that: $0 \leq m_i \leq 1$