

# Conjugate Gradient Methods



The next stage yields

$$\mathbf{g}^{(1)} = \nabla f(\mathbf{x}^{(1)}) = [-0.2222, 0.5556, 0.6667]^T,$$

$$\beta_0 = \frac{\mathbf{g}^{(1)T} \mathbf{Q} \mathbf{d}^{(0)}}{\mathbf{d}^{(0)T} \mathbf{Q} \mathbf{d}^{(0)}} = 0.08025.$$

We can now compute

$$\mathbf{d}^{(1)} = -\mathbf{g}^{(1)} + \beta_0 \mathbf{d}^{(0)} = [0.4630, -0.5556, -0.5864]^T.$$

Hence,

$$\alpha_1 = -\frac{\mathbf{g}^{(1)T} \mathbf{d}^{(1)}}{\mathbf{d}^{(1)T} \mathbf{Q} \mathbf{d}^{(1)}} = 0.2187,$$

and

$$\mathbf{x}^{(2)} = \mathbf{x}^{(1)} + \alpha_1 \mathbf{d}^{(1)} = [0.9346, -0.1215, 0.1495]^T.$$

# A Conjugate Gradient Algorithm For Analysis Of Variance

**Siddappa N.Byrareddy**



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