$$O = \sum_{i=1}^{N} \sum_{j=1}^{P} \{w(Z_{ij}) [g(Z_{ij}) - \ln E_i - \ln \Delta t_j]\}^2 + \lambda \sum_{z=Z_{min}+1}^{Z_{max}-1} [w(z)g''(z)]^2$$

$$w(z) = \begin{cases} z - Z_{min} & z \le \frac{1}{2}(Z_{min} + Z_{max}) \\ Z_{max} - z & z > \frac{1}{2}(Z_{min} + Z_{max}) \end{cases}$$

$$g''(z_i) = g(z_{i-1}) - 2g(z_i) + g(z_{i+1})$$

$$A_{N\times P+(Z_{max}-Z_{min}),N+(Z_{max}-Z_{min})+1}$$

