









```
Gamma = Krig_Compute_Variogram
(num_obs_points, num_obs_points, distance_horiz, distance_vert, num_obs_points, par)
```

Fs = Krig_Eval_Spatial_Function (obs, num_spat_fcns, num_obs_points)

Krig_Compute_Distance
(obs, grid, D0h, D0z, num_obs_points)

gamma0 = Krig_Compute_Variogram
(num_obs_points, num_points, D0h, D0z, num_obs_points, par)

```
 \Gamma_U = \begin{cases} \gamma(\mathbf{s}_i - \mathbf{s}_j), & i = 1, \dots, n, j = 1, \dots, n, \\ f_{j-1-n}(\mathbf{s}_i), & i = 1, \dots, n, j = n+1, \dots, n+p+1, \\ 0, & i = n+1, \dots, n+p+1, \\ j = n+1, \dots, n+p+1, \\ j = n+1, \dots, n+p+1, \end{cases}   n = \underset{f \text{ sol}}{\text{num\_obs\_points}} \quad p = \underset{f \text{ sol}}{\text{num\_spat\_fcns}}   Fs0 = \underset{f \text{ sol}}{\text{Kind_sol}} \cdot \text{Kind_sol} \cdot \text{Kind_sol}
```