$$F_{urcs} = \left[\sum_{j=1}^{S} F_{\phi(b_1)rcj} \times P_{sj}^{(r)}(t_{b_1}) \right] \times$$

$$\left[\sum_{j=1}^{S} F_{\phi(b_2)rcj} \times P_{sj}^{(r)}(t_{b_2}) \right]$$