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*Foundations of Radio XML*, Wiley, 2006. 2. S. Haykin, "Cognitive Radio: Brain-empowered Wireless Communications, *IEEE J. Selected Areas in Communications*, vol. 23, pp. 201-220, February.

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$$S_i = \{p_i, d_i, u_i, W_i\}, (i = 1, 2, \dots, L),$$

$$p_k = (p_{k1}, p_{k2}, \dots, p_{kD}), (k = 1, 2, \dots, L) - \text{ , } k.$$

$$d_k = (d_{k1}, d_{k2}, \dots, d_{kD}), (k = 1, 2, \dots, L) - \text{ , } k.$$

$$u_k = (u_{k1}, u_{k2}, \dots, u_{kN}), (k = 1, 2, \dots, L) - \text{ , } k.$$