Boundary Value Problem for Functional Differential Equation

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A suitable periodic boundary conditions for a functional differential equations $\dot{x}(t) = f(t, x, x_t)$ are conditions of the form $x_0(\theta) = x_{2\pi}(\theta)$. In this talk we use the notion of upper and lower solutions coupled with monotone iterative method to prove the existence of solutions of this periodic boundary value problem.