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Lianwen Wang* (lwang@ucmo.edu), Department of Math and Computer Science, University of Central Missouri, Warrensburg, MO 64093. *Optimality Conditions for Control Systems of Neutral Type.*

In this talk we consider optimal control of control systems governed by a class of neutral differential equations with time delays appearing in both the cost index functional and the neutral differential equations. With the help of duality scheme, we have established necessary and sufficient optimality conditions in subdifferential form. (Received September 19, 2009)