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**Lianwen Wang\***, School of Computer Science and Mathematics, University of Central Missouri, Warrensburg, MO 64093. *Existence and Boundedness of Solutions of Nonlinear Systems of Differential Equations.*

In this talk, we consider the existence and boundedness of solutions of a class of nonlinear systems. This nonlinear system is composed of two differential equations. The existence of certain types of solutions is provided and necessary and sufficient conditions for the boundedness of solutions are established. (Received December 10, 2018)