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Lianwen Wang* (lwang@ucmo.edu), School of Computer Science and Mathematics, University of Central Missouri, Warrensburg, MO 64093. *On Continuability, Boundedness, and Monotonicity of Solutions of Nonlinear Systems of Differential Equations.*

Continuability, boundedness, and monotonicity are studied for a nonlinear system of differential equations. It is proved that all solutions are eventually monotonic and can be extended to infinity under natural assumptions. Moreover, necessary and sufficient conditions for boundedness of all solutions are established. (Received July 08, 2017)