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Laura Munteanu* (Laura.Munteanu@oneonta.edu), 2 Circle Dr., Sidney, NY 13838. *A Distribution Approach to (Bi)Simulation Relations for Nonlinear Control Systems*. Preliminary report.

We explore certain aspects of the algorithm for computing the maximal (bi)simulation relation between two nonlinear control systems. More precisely, we use the theory of distributions along submanifolds to provide conditions ensuring that the algorithm works for a sufficiently large class of nonlinear control systems. (Received September 14, 2008)