

115. Zvi Artstein, **Analysis and control of coupled slow and fast systems: A review**. Proceedings of DINCON'2010, 9th Brazilian Conference on Dynamics, Control and Their Applications, pp. 1254-1263.

Abstract. We review the modeling and analysis of coupled fast and slow dynamical systems including dynamics depicted by differential equations and by control systems. We introduce, in particular, a novel approach, aiming at relaxing some classical assumptions. The techniques employed by the new approach utilize evolution of probability distributions each forms an invariant measure of the dynamics. Some examples and relevant references are displayed

For a copy of this paper send a request to zvi.artstein@weizmann.ac.il