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The 39th "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications
28 – 29 October 2021, Bucharest, Romania

ABSTRACT TITLE

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[1] C. Ohtar, A. Fujita, P. N. Nikiforov and M. K Santa, Active flutter suppression for two-dimensional airfoils, *Journal of Guidance, Control and Dynamics*, vol. **14**, no. 2, pp. 283-293, 1991. (*Times New Roman, 9pt, single spaced*)

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Example:

Robust adaptive control laws

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Abstract: *This paper continues recent research of the authors, considering the control synthesis in the presence of a parametric uncertainty, with application to electrohydraulic servos actuating primary flight controls. The uncertain parameter is adjusted during the control process, using in synthesis the methods of Control Lyapunov Functions and backstepping. The obtained control law, containing a dynamic updating of uncertain parameter, renders the closed loop system stable and guarantees asymptotic tracking of position references. Numerical simulations are reported from viewpoint of servo time constant performance.*

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Key Words: *nonlinear control synthesis, backstepping, uncertain parameters, Control Lyapunov Function, Barbalat's Lemma, electrohydraulic servo.*