



Complete Publication List

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Publications:

Books

1. **T. R. Oliveira**, M. Krstic, “Extremum Seeking Through Delays and PDEs,” SIAM, 2022.

Thesis-Books

1. **T. R. Oliveira**, “Tracking Control for Uncertain Systems with Strong Nonlinearities and Unknown Control Direction,” *Programa de Pós-Graduação em Engenharia Elétrica (COPPE/UFRJ)*, PhD Thesis, 182 pages, 2010. <http://www.pee.ufrj.br/index.php/pt/producao-academica/teses-de-doutorado/2010/2010012501-2010012501/file> (Best Doctoral Thesis Award)
2. **T. R. Oliveira**, “Sliding Mode Control of Uncertain Systems with Unknown Control Direction,” *Programa de Pós-Graduação em Engenharia Elétrica (COPPE/UFRJ)*, MSc Thesis, 209 pages, 2006. <http://www.pee.ufrj.br/index.php/pt/producao-academica/dissertacoes-de-mestrado/2006-1/2006072101-2006072101/file>

Edited Books

1. **T. R. Oliveira**, L. Fridman, L. Hsu, "Sliding-Mode Control and Variable-Structure Systems: The State of the Art," Springer series Studies in Systems, Decision and Control (SSDC), 2022.

Journal Papers

1. **T. R. Oliveira**, A. J. Peixoto, E. V. L. Nunes, L. Hsu, "Control of uncertain nonlinear systems with arbitrary relative degree and unknown control direction using sliding modes," *International Journal of Adaptive Control and Signal Processing*, vol. 21, no.8/9, pp. 692-707, 2007. <http://dx.doi.org/10.1002/acs.978>
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5. A. J. Peixoto, **T. R. Oliveira**, L. Hsu, F. C. Lizarralde, R. R. Costa, "Global tracking sliding mode control for a class of nonlinear systems via variable gain observer," *International Journal of Robust and Nonlinear Control*, vol. 21, no. 02, pp. 177-196, 2011. <http://dx.doi.org/10.1002/rnc.1584>
6. **T. R. Oliveira**, L. Hsu, A. J. Peixoto, "Output-Feedback Global Tracking for Unknown Control Direction Plants with Application to Extremum-Seeking Control," *Automatica*, vol. 47, no. 09, pp. 2029-2038, 2011. <http://dx.doi.org/10.1016/j.automatica.2011.05.021>
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Book Chapters

1. L. Hsu, E. V. L. Nunes, **T. R. Oliveira**, A. J. Peixoto, J. P. V. S. Cunha, R. R. Costa, F. Lizarralde, “Output Feedback Sliding Mode Control Approaches using Observers and/or Differentiators,” In: *Plenaries and Semiplenaries of 11th IEEE Workshop on Variable Structure Systems - Final Meeting - Automatization and Monitoring of Energy Production Processes via Sliding Mode Control*, Eds.: Leonid Fridman, Fondo de Cooperación Internacional en Ciencia y Tecnología Unión Europea (FONCICYT), vol. 01, pp. 245-267, 2010.

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7. M. Dansa, V. H. P. Rodrigues, **T. R. Oliveira**, "Blood Glucose Regulation in Patients with Type 1 Diabetes by means of Output-Feedback Sliding Mode Control," In: *Control applications for Biomedical Engineering Systems*, Eds.: Ahmad Taher Azar, Elsevier, pp. 25-54, 2020. <https://doi.org/10.1016/B978-0-12-817461-6.00002-0>
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Total of Publications 2006 - 2022:

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Thesis-Books: **02**

Edited Books: **01**

Journal Papers: **66**

Book Chapters: **10**

Conferences Papers: **140**

Total: **220**