



## 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), 2023.

## 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>
2. **T. R. Oliveira**, A. J. Peixoto, L. Hsu, "Sliding mode control of uncertain multivariable nonlinear systems with unknown control direction via switching and monitoring function," *IEEE Transactions on Automatic Control*, vol. 55, no. 04, pp. 1028-1034, 2010. <http://dx.doi.org/10.1109/TAC.2010.2041986>
3. **T. R. Oliveira**, A. J. Peixoto, R. R. Costa, L. Hsu, "Dwell-time and disturbance monitoring for peaking avoidance and performance improvement in high-gain observer based sliding mode control," *Dynamics of Continuous, Discrete and Impulsive Systems Series B – Applications and Algorithms*, vol. 17, pp. 839-874, 2010. <http://online.watsci.org/contents2010/v17n6b.html>
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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

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**Total of Publications 2006 – 2024:**

Books: **01**

Thesis-Books: **02**

Edited Books: **01**

Journal Papers: **77**

Book Chapters: **10**

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Total: **260**