

Grace S. Deaecto

Education

- 02/02/2021 **Livre-Docente**, *School of Mechanical Engineering - FEM/UNICAMP*
- 2010–2011 **Post Doc in Automatic Control**, *Centre de Recherche en Automatique de Nancy (CRAN-CNRS) - France.*
- 2007–2010 **PhD in Electrical Engineering**, *University of Campinas (UNICAMP) - FEEC.*
- 2006–2007 **MSc. in Electrical Engineering**, *University of Campinas (UNICAMP) - FEEC.*
- 2001–2005 **BSc. in Electrical Engineering**, *University of São Paulo State (UNESP) - FEIS.*

PhD Thesis

- Title *Synthesis of Switched Dynamic Controllers: Application to Mechanical Systems and DC-DC Power Converters (in portuguese)*
- Supervisor Prof. José C. Geromel (Docteur D'État, LAAS-CNRS, 1979)
- Financial Support São Paulo Research Foundation–FAPESP

Master Dissertation

- Title *Control Synthesis for Dynamic Switched Systems (in portuguese)*
- Supervisor Prof. José C. Geromel (Docteur D'État, LAAS-CNRS, 1979)
- Financial Support São Paulo Research Foundation–FAPESP

Work Experience

- 2021– **Associate Professor**, *School of Mechanical Engineering, University of Campinas, FEM/UNICAMP*
- 2013–2020 **Assistant Professor**, *School of Mechanical Engineering, University of Campinas, FEM/UNICAMP*
- 2012–2013 **Assistant Professor**, *Institute of Science and Technology, Federal University of São Paulo, ICT/UNIFESP*

Administrative Position

- 2016–2020 **Head of Computational Mechanics Department**, *FEM/UNICAMP*

Member of the Editorial Board

- 2023– **IEEE Control Systems Letters**
- 2022– **Journal of Control, Automation and Electrical Systems**
- 2018– **Nonlinear Analysis: Hybrid Systems**

Awards & Distinctions

March, 2023	h-index 19, 1198 citations in the ISI Web of Science
2021–2025	Affiliate Member of Brazilian Academy of Sciences (ABC)
2023–2025	Member of the Direction Board of the Brazilian Society of Automatics (SBA)
2021–2023	Chair of the Technical Committee of Automatic Control in the Brazilian Society of Automatics (SBA)
2019–2021	Member of the Direction Board of the Brazilian Society of Automatics (SBA)
2019–	Class 1D Researcher of the National Council for Scientific and Technological Development - CNPq, Brazil
2016–2019	Class 2 Researcher of the National Council for Scientific and Technological Development - CNPq, Brazil
2015–	Member of the IFAC Technical Committee on Robust Control, International Federation of Automatic Control

Research Projects

2023–2024	Fellowship - Grant 2022/16431-0
Title	Control Design of switched nonlinear systems
Financial Support	São Paulo Research Foundation - FAPESP
2018–2020	Regular Research - Grant 2017/20343-0
Title	Switched control systems: New theoretical perspectives and practical applications
Financial Support	São Paulo Research Foundation - FAPESP
2014–2017	Regular Research - Grant 443166/2014-5
Title	Controle de sistemas dinâmicos com comutação: Aplicação em controle em rede
Financial Support	Council for Scientific and Technological Development - CNPq
2013–2015	Regular Research - Grant 2013/08691-2
Title	Control of switched linear and affine systems
Financial Support	São Paulo Research Foundation - FAPESP

Book

J. C. Geromel, G. S. Deaecto, "Análise Linear de Sinais: Teoria, Ensaios Práticos e Exercícios (in portuguese)", Edgard Blucher, 334 pages, 2019

Former Students

- [10] Regiane A. Hirata, *Master Degree*, School of Mechanical Engineering, UNICAMP, July 2023, Dissertation Title: "Limit cycles output feedback stabilization of discrete-time switched affine systems".
- [9] Lucas De Cunto Costanzo, *Master Degree*, School of Mechanical Engineering, UNICAMP, July 2022, Dissertation Title: "Control of θ -periodic switched systems with application in electrical engineering".
- [8] Julio Alves Mesquita da Silva, *Master Degree*, (co-advisor), School of Mechanical Engineering, UNICAMP, March 2021, Dissertation Title: "Study and application of min-type control strategies in DC-DC power converters".
- [7] Helder Richardson Daiha, *PhD Degree*, School of Mechanical Engineering, UNICAMP, July 2020, Dissertation Title: "Control design of switched dynamical systems based on a time-varying Lyapunov function (in portuguese)".

- [6] Lucas Neves Egidio, *PhD Degree*, School of Mechanical Engineering, UNICAMP, January 2020, Dissertation Title: “Contributions to Switched Affine Systems Control Theory with Applications in Power Electronics”.
- [5] Guilherme Kairalla Kolotelo, *Master Degree*, School of Mechanical Engineering, UNICAMP, December 2018, Dissertation Title: “Output feedback control and filter design for continuous-time switched affine systems”.
- [4] José Lima Luz Netto, *Master Degree*, School of Mechanical Engineering, UNICAMP, April 2018, Dissertation Title: “H₂ and H_{inf} cooperative switched control through communication network: Theory and practical implementation in inverted pendulums (in portuguese)”.
- [3] Lucas Neves Egidio, *Master Degree*, School of Mechanical Engineering, UNICAMP, September 2016, Dissertation Title: “State feedback control of discrete-time switched affine systems (in portuguese)”, supported by Coordination for the Improvement of Higher Education Personnel – CAPES, Ministry of Education, Brazil.
- [2] Alan Pereira Suto, *Master Degree*, School of Mechanical Engineering, UNICAMP, May 2015, Dissertation Title: “Stability analysis and H₂ performance optimization of Lur’e type switched systems (in portuguese)”, supported by Fundo de Apoio ao Ensino, à Pesquisa e Extensão - FAEPEX/UNICAMP.
- [1] Guilherme Cavaleri Santos, *Master Degree*, School of Mechanical Engineering, UNICAMP, February 2015, Dissertation Title: “State feedback control of continuous-time switched affine systems (in portuguese)”, supported by São Paulo Research Foundation - FAPESP.

Publications in Journals

- [44] G. S. Deaecto, L. C. Costanzo, L. N. Egidio, “Trajectory tracking for a class of theta-periodic switched systems”, *IEEE Transactions on Automatic Control*, vol. 69, pp. 1874–1881, 2024.
- [43] G. S. Deaecto, J. C. Geromel, “Comments on Robust H₂ and H_∞ control for positive continuous-time uncertain linear systems”, *Journal of the Franklin Institute*, vol. 361, pp. 1023–1024, 2024.
- [42] G. S. Deaecto, L. N. Egidio, L. C. Costanzo, “Trajectory tracking with integral action of periodic switched affine systems”, *International Journal of Systems Science*, vol. 55, pp. 1156–1166, 2024.
- [41] L. N. Egidio, G. S. Deaecto, R. M. Jungers, “Stabilization of rank-deficient continuous-time switched affine systems”, *Automatica*, vol. 143, N. 100426, 2022.
- [40] J. A. M. Silva, G. S. Deaecto, T. A. S. Barros, “Analysis and design aspects of min-type switching control strategies for synchronous buck-boost converter”, *Energies*, vol. 15, N. 2302, 2022.
- [39] L. N. Egidio, G. S. Deaecto, J. P. Hespanha, J. C. Geromel, “Trajectory tracking for a class of switched nonlinear systems: Application to PMSM”. *Nonlinear Analysis: Hybrid Systems*, vol. 44, N. 101164, 2022.
- [38] L. N. Egidio, G. S. Deaecto, “Dynamic output feedback control of discrete-time switched affine systems”. *IEEE Transactions on Automatic Control*, vol. 66, pp. 4417–4423, 2021.
- [37] H. R. Daiha, G. S. Deaecto, “H₂ static output feedback switching function design based on a time-varying Lyapunov function approach”. *International Journal of Control*, vol. 94, pp. 1484–1491, 2021.
- [36] A. M. F. Alvarez, L. N. Egidio, G. S. Deaecto, “Cooperative networked control based on a time-varying Lyapunov function”. *Journal of Control, Automation and Electrical Systems*, vol. 32, pp. 533–542, 2021.
- [35] L. N. Egidio, H. R. Daiha, G. S. Deaecto, “Global asymptotic stability of limit cycle and H₂/H_∞ performance of discrete-time switched affine systems”. *Automatica (regular paper)*, vol. 116, number. 108927, 2020.

- [34] G. S. Deaecto, H. R. Daiha "LMI conditions for output feedback control of switched systems based on a time-varying convex Lyapunov function". *Journal of the Franklin Institute*, vol. 357, pp. 10513–10528, 2020.
- [33] L. N. Egidio, G. S. Deaecto, "Novel practical stability conditions for discrete-time switched affine systems". *IEEE Transactions on Automatic Control*, vol. 64, pp. 4705–4710, 2019.
- [32] G. S. Deaecto, J. C. Geromel, "Stability and performance of discrete-time switched linear systems". *Systems & Control Letters*, vol. 118, pp. 1–7, 2018.
- [31] J. C. Geromel and G. S. Deaecto, "Generalized Kleinman-Newton method", *Optimal Control, Applications and Methods*, vol. 39, pp. 1130–1140, 2018.
- [30] G. S. Deaecto, J. C. Geromel, "Stability analysis and control design of discrete-time switched affine systems", *IEEE Transactions on Automatic Control*, vol. 62, pp. 4058–4065, 2017.
- [29] M. Jungers, G. S. Deaecto, J. C. Geromel, "Bounds for the remainders of uncertain matrix exponential and sampled-data control of polytopic linear systems", *Automatica*, vol. 82, pp. 202–208, 2017.
- [28] G. S. Deaecto, J. C. Geromel, " \mathcal{H}_2 state feedback control design of continuous-time positive linear systems", *IEEE Transactions on Automatic Control*, vol. 62, pp. 5844–5849, 2017.
- [27] G. S. Deaecto, G. C. Santos, "Reply to: Comments on 'State feedback \mathcal{H}_∞ control design of continuous-time switched affine systems'", *IET Control Theory & Applications*, vol. 11, pp. 2670, 2017.
- [26] J. C. Geromel, G. S. Deaecto and P. Colaneri, "Minimax control of Markov jump linear systems", *International Journal of Adaptive Control and Signal Processing.*, vol. 30, pp. 1152–1162, 2016.
- [25] G. S. Deaecto, "Dynamic output feedback \mathcal{H}_∞ control of continuous-time switched affine systems", *Automatica*, vol. 71, pp. 44–49, 2016.
- [24] G. S. Deaecto, P. Bolzern, L. Galbusera and J. C. Geromel, " \mathcal{H}_2 and \mathcal{H}_∞ control of time-varying delay switched linear systems with application to sampled-data control", *Nonlinear Analysis: Hybrid Systems*, vol 22, pp. 43–54, 2016.
- [23] G. S. Deaecto, M. Souza and J. C. Geromel, "Discrete-time switched linear systems control design with application to networked control", *IEEE Transactions on Automatic Control*, vol. 60, pp. 877–881, 2015.
- [22] G. S. Deaecto and G. C. Santos, "State feedback \mathcal{H}_∞ control design of continuous-time switched affine systems", *IET Control Theory & Applications*, vol. 9, pp. 1511–1516, 2015.
- [21] J. C. Geromel and G. S. Deaecto, "Stability analysis of Lur'e-type switched systems", *IEEE Transactions on Automatic Control*, vol. 59, pp. 3046–3050, 2014.
- [20] M. Souza, G. S. Deaecto, J. C. Geromel and J. Daafouz, "Self-triggered linear quadratic networked control", *Optimal Control, Applications and Methods*, vol. 35, pp. 524–538, 2014.
- [19] G. S. Deaecto, M. Souza and J. C. Geromel, "Chattering free control of continuous-time switched linear systems", *IET Control Theory & Applications*, vol 8, pp. 348–354, 2014.
- [18] G. S. Deaecto, J. C. Geromel and J. Daafouz, "Robust \mathcal{H}_2 switched filter design for discrete-time polytopic linear parameter-varying system", *Signal Processing*, vol. 97, pp. 91–99, 2014.
- [17] A. R. Fioravanti, G. S. Deaecto, A. P. C. Gonçalves and J. C. Geromel, "Obtaining alternative LMI constraints with applications to discrete-time MJLS and switched systems", *Journal of the Franklin Institute*, vol. 350, pp. 2212–2228, 2013.

- [16] J. C. Geromel, G. S. Deaecto and J. Daafouz, "Suboptimal switching control consistency analysis for switched linear systems", *IEEE Transactions on Automatic Control*, vol. 58, pp. 1857–1861, 2013.
- [15] G. S. Deaecto, A. R. Fioravanti and J. C. Geromel, "Suboptimal switching control consistency analysis for discrete-time switched linear systems", *European Journal of Control*, vol. 19, pp. 214–219, 2013.
- [14] G. S. Deaecto, A. R. Fioravanti and J. C. Geromel, "Authors' response to discussion on "Suboptimal switching control consistency analysis for discrete-time switched linear systems", *European Journal of Control*, vol. 19, pp. 221, 2013.
- [13] G. S. Deaecto, J. C. Geromel, L. Galbusera and P. Bolzern, "Extended small gain theorem for time-delay switched systems control and closed-loop robustness enhancement", *International Journal of Control*, vol. 86, pp. 1018–1025, 2013.
- [12] G. S. Deaecto and J. C. Geromel, " H_∞ state feedback switched control for discrete time-varying polytopic systems", *International Journal of Control*, vol. 86, pp. 591–598, 2013.
- [11] J. Daafouz, J. C. Geromel and G. S. Deaecto, "A simple approach for switched control design with control bumps limitation", *Systems & Control Letters*, vol. 61, pp. 1215–1220, 2012.
- [10] G. S. Deaecto, J. Daafouz and J. C. Geromel, " H_2 and H_∞ performance optimization of singularly perturbed switched systems", *SIAM Journal on Control and Optimization*, vol. 50, pp. 1597–1615, 2012.
- [9] L. Galbusera, P. Bolzern, G. S. Deaecto and J. C. Geromel, "State and output feedback H_∞ control of time-delay switched linear systems", *International Journal of Robust and Nonlinear Control*, vol. 22, pp. 1674–1690, 2012.
- [8] G. S. Deaecto, J. C. Geromel and J. Daafouz, "Dynamic output feedback Hoo control of switched linear systems", *Automatica*, vol. 47, pp. 1713–1720, 2011.
- [7] G. S. Deaecto, J. C. Geromel and J. Daafouz, "Switched state feedback control for continuous time-varying polytopic systems", *International Journal of Control*, vol. 84, pp. 1500–1508, 2011.
- [6] G. S. Deaecto, J. C. Geromel, F. S. Garcia, J. A. Pomílio, "Switched affine systems control design with application to DC-DC Converters", *IET Control Theory & Applications*, vol. 4, pp. 1201–1210, 2010.
- [5] G. S. Deaecto and J. C. Geromel, " H_∞ control for continuous-time switched linear systems", *Journal of Dynamic Systems, Measurement, and Control*, vol. 132, pp. 041013, 2010.
- [4] G. S. Deaecto, J. C. Geromel and J. Daafouz, "Trajectory-dependent filter design for discrete-time switched linear systems", *Nonlinear analysis. Hybrid systems*, vol. 4, pp. 1–8, 2010.
- [3] J. C. Geromel and G. S. Deaecto, "Switched state feedback control for continuous-time uncertain systems", *Automatica*, vol. 45, pp. 593–597, 2009.
- [2] G. S. Deaecto and J. C. Geromel, "Controle de sistemas lineares com comutação", *Controle & Automação*, vol. 19, pp. 431–443, 2008.
- [1] H. N. Nagashima, G. S. Deaecto and L. F. Malmonge, "Análise de processos de condução em filmes de PVDF e blendas de PVDF/POMA através de uma técnica de matriz de transferência", *Matéria (UFRJ)*, vol. 9, pp. 445–452, 2004.

Publications in International Conferences

- [32] G. S. Deaecto, R. A. Hirata, M. C. M. Teixeira, "Static output feedback global asymptotic stability of limit cycles for discrete-time switched affine systems", *Proc. of the IFAC World Congress*, pp. 4132-4137, 2023.

- [31] G. S. Deaecto, J. C. Geromel, J. L. N. Brito, "Asymptotic stability of continuous-time switched affine systems with unknown equilibrium points", *Proc. of the IEEE Conference on Decision and Control*, pp. 679–684, 2022.
- [30] L. N. Egidio, G. S. Deaecto, T.A.S. Barros, "Switched control of a three-phase AC-DC power converter", *Proc. of the IFAC World Congress*, pp. 6471-6476, 2020.
- [29] L. N. Egidio, G. S. Deaecto, J. C. Geromel, "Limit cycle global asymptotic stability of continuous-time switched affine systems", *Proc. of the IFAC World Congress*, pp. 6121-6126, 2020.
- [28] L. N. Egidio, G. S. Deaecto, J. P. Hespanha, J. C. Geromel, "A nonlinear switched control strategy for permanent magnet synchronous machines", *Proc. of the IEEE Conference on Decision and Control*, pp. 3411-3416, 2019.
- [27] H. R. Daiha, G. S. Deaecto, "A time-varying convex Lyapunov function approach for dynamic output feedback \mathcal{H}_∞ control of switched linear systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 581–586, 2019.
- [26] G. K. Kolotelo, L. N. Egidio, G. S. Deaecto, " \mathcal{H}_2 and \mathcal{H}_∞ filtering for continuous-time switched affine systems", *Proc. of the IFAC Symposium on Robust Control Design and IFAC Workshop on Linear Parameter Varying Systems*, pp. 295-300, 2018.
- [25] G. S. Deaecto, J. C. Geromel, " \mathcal{H}_2 state feedback control design of positive switched linear systems", *Proc. of the IFAC World Congress*, pp. 3136–3141, 2017.
- [24] J. C. Geromel, G. S. Deaecto, "Generalized Kleinman-Newton method in discrete-time", *Proc. of the IFAC World Congress*, pp. 6891–6896, 2017.
- [23] H. R. Daiha, L. N. Egidio, G. S. Deaecto, J. C. Geromel, " \mathcal{H}_∞ state feedback control design of discrete-time switched linear systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 5882–5887, 2017.
- [22] L. N. Egidio, H. R. Daiha, G. S. Deaecto, J. C. Geromel, "DC motor speed control via buck-boost converter through a state dependent limited frequency switching rule", *Proc. of the Conference on Decision and Control*, pp. 2072–2077, 2017.
- [21] G. S. Deaecto, L. N. Egidio, "Practical stability of discrete-time switched affine systems", *Proc. of the European Control Conference*, pp. 2048–2053, 2016.
- [20] G. S. Deaecto, A. P. Suto, " \mathcal{H}_2 control design of Lur'e type switched systems", *Proc. of the IFAC Symposium on Robust Control*, pp. 336–341, 2015.
- [19] G. S. Deaecto. "Output-input dependent switching function design for switched affine systems with \mathcal{H}_∞ performance", *Proc. of the IEEE Conference on Decision and Control*, pp. 4891–4896, 2015.
- [18] T. T. De Sousa, J. C. Geromel, G. S. Deaecto, "Switching control resource allocation in networked control systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 6862–6867, 2015.
- [17] G. S. Deaecto, J. C. Geromel, "Switched linear systems control design: A transfer function approach", *Proc. of the IFAC World Congress*, pp. 4068–4073, 2014.
- [16] G. S. Deaecto, M. Souza, J. C. Geromel, "State feedback switched control of discrete-time switched linear systems with application to networked control", *Proc. of the Mediterranean Conference on Control and Automation*, pp. 877–883, 2013.
- [15] P. Bolzern, G. S. Deaecto, L. Galbusera, "State and output feedback control of switched linear systems with time-varying delay", *Proc. of the IEEE Conference on Decision and Control*, pp. 1578–1583, 2013.
- [14] G. S. Deaecto, J. Daafouz, J. C. Geromel, " \mathcal{H}_2 performance optimization of singularly perturbed switched linear systems", *Proc. of the IFAC Conference on Analysis and Design of Hybrid Systems*, pp. 228–233, 2012.

- [13] G. S. Deaecto, A. R. Fioravanti, J. C. Geromel, "Switching control consistency analysis for discrete-time switched linear systems", *Proc. of the IFAC Symposium on Robust Control Design*, pp. 599–604, 2012.
- [12] M. Souza, G. S. Deaecto, J. C. Geromel, J. Daafouz, "Self-triggered linear quadratic Networked Control", *Proc. of the Mediterranean Conference on Control & Automation*, pp. 948–947, 2012.
- [11] G. S. Deaecto, J. C. Geromel, L. Galbusera, P. Bolzern, "Extended small gain theorem with application to time-delay switched linear systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 2660–2665, 2012.
- [10] A. R. Fioravanti, A. P. C. Gonçalves, G. S. Deaecto, J. C. Geromel, "Equivalent LMI constraints: Applications to discrete-time MJLS and switched systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 1313–1318, 2012.
- [9] J. C. Geromel, G. S. Deaecto, J. Daafouz, "Suboptimal switching state feedback control consistency analysis for switched linear systems", *Proc. of the IFAC World Congress*, pp. 5849–5854, 2011.
- [8] L. Galbusera, P. Bolzern, G. S. Deaecto, J. C. Geromel, "Output feedback stabilization of time-delay switched linear systems", *Proc. of the IFAC World Congress*, pp. 1279–1284, 2011.
- [7] G. S. Deaecto, J. C. Geromel, J. Daafouz, "Full order dynamic output feedback \mathcal{H}_∞ control design for discrete-time switched linear systems", *Proc. of the Mediterranean Conference on Control and Automation*, pp. 1212–1217, 2010.
- [6] G. S. Deaecto, J. C. Geromel, J. Daafouz, "On \mathcal{H}_∞ control design of continuous-time switched linear systems", *Proc. of the IEEE Conference on Decision and Control*, pp. 7345–7350, 2010.
- [5] G. S. Deaecto, J. C. Geromel, "Switched state feedback control for continuous-time polytopic systems and its relationship with LPV control", *Proc. of the European Control Conference*, pp. 2073–2078, 2009.
- [4] G. S. Deaecto, J. C. Geromel, "Full order dynamic output feedback \mathcal{H}_∞ control for continuous-time switched linear systems", *Proceedings of the IEEE Conference on Decision and Control*, pp. 6377–6382, 2009.
- [3] F. S. Garcia, J. A. Pomilio, G. S. Deaecto, J. C. Geromel, "Analysis and control of DC-DC converters based on Lyapunov stability theory", *Proc. of the IEEE Energy Conversion Congress and Exposition*, pp. 2920–2927, 2009.
- [2] J. C. Geromel, G. S. Deaecto, P. Colaneri, "Multi-objective \mathcal{H}_2 control via switched linear systems", *Proc. of the 3rd IFAC Symposium on Systems*, pp. 238–243, 2007.
- [1] M. C. M. Teixeira, G. S. Deaecto, R. Gaino, E. Assunção, A. A. Carvalho, U. C. Farias, "Design of a fuzzy Takagi-Sugeno controller to vary the joint knee angle of paraplegic patients", *Proc. of the International Conference on Neural Informational Processing*, vol. 4234, pp. 118–126, 2006.

Publications in National Conferences

- [21] R. A. Hirata, G. S. Deaecto, M. C. M. Teixeira, "Estabilização via realimentação estática de saída de ciclos limites para sistemas afins com comutação a tempo discreto", *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 1-6, 2023.
- [20] J. L. N. Brito, G. S. Deaecto, J. C. Geromel, "Controle robusto de sistemas afins com comutação e pontos de equilíbrio incertos", *Anais do Congresso Brasileiro de Automática*, pp. 2694–2699, 2022.
- [19] L. C. Costanzo, G. S. Deaecto, L. N. Egidio, T. A.S.Barros, "Nova metodologia de controle para conversores de potência trifásicos CC-CA", *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 558-563, 2021.

- [18] L. N. Egidio, G. S. Deaecto, “Estabilidade prática de sistemas afins com comutação a tempo discreto e ponto de equilíbrio parcialmente conhecido”, *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 804-809, 2019.
- [17] G. K. Kolotelo, L. N. Egidio, G. S. Deaecto, “Projeto de filtros com comutação \mathcal{H}_2 e \mathcal{H}_∞ para sistemas afins a tempo contínuo”, *Anais do Congresso Brasileiro de Automática*, 2018.
- [16] G. K. Kolotelo, G. S. Deaecto, “Controle \mathcal{H}_2 e \mathcal{H}_∞ via realimentação de saída de sistemas afins com comutação por ação conjunta de função de comutação e entrada de controle”, *Anais do Congresso Brasileiro de Automática*, 2018.
- [15] L. N. Egidio, J. L. Luz Netto, G. S. Deaecto, “Controle cooperativo \mathcal{H}_∞ via rede de comunicação”, *Anais do Congresso Brasileiro de Automática*, 2018.
- [14] H. R. Daiha, G. S. Deaecto, “Projeto de controle \mathcal{H}_2 de sistemas lineares com comutação: Uma abordagem baseada em função de Lyapunov variante no tempo”, *Anais do Congresso Brasileiro de Automática*, 2018.
- [13] J. L. Luz Netto, L. N. Egidio, J. V. Ferreira, G. S. Deaecto, “Controle cooperativo com comutação \mathcal{H}_2 : Implementação em pêndulos invertidos via rede de comunicação”, *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 171–176, 2017.
- [12] L. N. Egidio, H. R. Daiha, G. S. Deaecto, “Projeto e implementação prática de uma regra de comutação para o controle de velocidade de um motor CC via conversor Buck-Boost”, *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 295–300, 2017.
- [11] H. R. Daiha, L. N. Egidio, G. S. Deaecto, “Síntese de controle \mathcal{H}_∞ via realimentação de estado para sistemas lineares com comutação a tempo discreto”, *Anais do Simpósio Brasileiro de Automação Inteligente*, pp. 301–306, 2017.
- [10] L. N. Egidio, G. S. Deaecto, “Controle \mathcal{H}_2 via realimentação de saída de sistemas afins com comutação a tempo contínuo”, *Anais do Congresso Brasileiro de Automática*, pp. 326–331, 2016.
- [9] G. S. Deaecto, J. C. Geromel, “Controle \mathcal{H}_2 de sistemas lineares positivos com comutação”, *Anais do Congresso Brasileiro de Automática*, pp. 309–314, 2016.
- [8] L. N. Egidio, G. S. Deaecto, “Controle ótimo de sistemas afins com comutação a tempo discreto”, *Anais do Congresso Brasileiro de Automática*, pp. 225–230, 2016.
- [7] A. P. Suto, G. S. Deaecto, “Otimização de desempenho \mathcal{H}_2 de sistemas com comutação do tipo Lur'e”, *Anais do Congresso Brasileiro de Automática*, pp. 344–351, 2014.
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