

Submitted Articles

1. Chaves-Silva, F. W., Fernández-Cara, E., Le Balc'h, K., Machado, J. L. F., Souza, D. A.,
Small-time global exact controllability to the trajectories for the viscous Boussinesq system
,
submitted.
[link](#)

2. Araújo, R. K. C., Fernández-Cara, E., Souza, D. A.,
On the Uniform Controllability of the Inviscid and Viscous Burgers- α ,
submitted.
[link](#)

3. Chaves-Silva, F. W., Ervedoza, S., Souza, D. A.,
Switching controls for analytic semigroups and applications to parabolic systems
,
submitted
[link](#)

Published or Accepted Articles

2020

1. [Fernández-Cara, E.](#) , [Machado, J. L. F.](#) , Souza, D. A.,
Non null controllability of Stokes equations with memory
accepted in

[ESAIM: Control, Optimisation and Calculus of Variations](#)

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26 (72), (2020)

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<https://doi.org/10.1051/cocv/2019067>

2. [Chaves-Silva, F. W.](#) , Souza, D. A., [Zhang, C.](#) , *Observability inequalities on measurable sets for the Stokes system and applications*,

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[SIAM Journal on Control and Optimization](#)

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) , pp 2188–2205 (2020). doi:

[10.1137/18M117652X](https://doi.org/10.1137/18M117652X)

3. [Araújo, R. K. C.](#) , [Fernández-Cara, E.](#) , Souza, D. A., *On some Geometric Inverse Problems for Nonscalar Elliptic Systems*

,

[Journal of Differential Equations](#),

269 (11), pp 9123-9143 (2020).

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4. [Chaves-Silva, F.-W.](#) , Souza, D. A., *On the controllability for some Sobolev-Galpern type equations* , [Journal of Differential Equations](#) , 268

(4), pp 1633-1657 (2020). doi:

[10.1016/j.jde.2019.09.005](https://doi.org/10.1016/j.jde.2019.09.005)

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5. [Fernández-Cara, E.](#) , Souza, D. A., *Remarks on the control of the viscous Camassa-Holm equation* , Trends in Control Theory and Partial Differential Equations

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7. [Münch, A.](#) , Souza, D. A., *Inverse problems for linear parabolic equations using mixed formulations* □ *Part 1: Theoretical analysis*, [Journal of Inverse and Ill-Posed Problems](#) , 25(4), pp. 445-468 (2017). doi:

[10.1515/jiip-2015-0112](https://doi.org/10.1515/jiip-2015-0112)

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9. [Fernández-Cara, E.](#) , [Santos, M. C.](#) , Souza, D. A., *Boundary controllability of incompressible Euler fluids with Boussinesq heat effects*

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10. [Münch, A.](#) , Souza, D. A., *A mixed formulation for the direct approximation of L^2 -weighted controls for the linear heat equation* , [Advances in Computational Mathematics](#)

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11. [Araruna, F. D.](#) , [Fernández-Cara, E.](#) , Souza, D. A., *Uniform local null control of the Leray- α model* , [ESAIM: Control, Optimisation and Calculus of Variations](#)

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12. [Araruna, F. D.](#) , [Fernández-Cara, E.](#) , Souza, D. A., *On the controllability of the Burgers- α model* , [Advances in Differential Equations](#)

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