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Aanstellingen

Promovendus

Promovendus
Dynamics and Control
Technische Universiteit Eindhoven
Eindhoven, Nederland
1 okt. 2016 → 21 jul. 2020

Promovendus

Promovendus
Dynamics and Control
Technische Universiteit Eindhoven
Eindhoven, Nederland
1 okt. 2017 → 5 mrt. 2019

Promovendus

Promovendus
Dynamics and Control
Technische Universiteit Eindhoven
Eindhoven, Nederland
1 okt. 2017 → 9 nov. 2020

Onderzoeker

Onderzoeker
Dynamics and Control
Technische Universiteit Eindhoven
Eindhoven, Nederland
10 nov. 2020 → 17 nov. 2020

Postdoc

Postdoc
Dynamics and Control
Technische Universiteit Eindhoven
Eindhoven, Nederland
10 nov. 2020 → 14 jul. 2022

Postdoc

Postdoc
Computational Science
Technische Universiteit Eindhoven
15 jul. 2021 → 14 jul. 2022

Onderzoeksoutput

Control-oriented modelling for managed pressure drilling automation using model order reduction

Naderilordejani, S., Besselink, B., Abbasi, M. H., Kaasa, G. O., Schilders, W. H. A. & van de Wouw, N., mei 2021, In: IEEE Transactions on Control Systems Technology. 29, 3, blz. 1161-1174 14 blz., 9099213.

An Approximate Well-Balanced Upgrade of Godunov-Type Schemes for the Isothermal Euler Equations and the Drift Flux Model with Laminar Friction and Gravitation

Abbasi, M. H., Naderilordejani, S., Berg, C., Iapichino, L., Schilders, W. H. A. & van de Wouw, N., apr. 2021, In: International Journal for Numerical Methods in Fluids. 93, 4, blz. 1110-1142 33 blz.

On Extended Model Order Reduction for Linear Time Delay Systems

Naderilordejani, S., Besselink, B., Chaillet, A. & van de Wouw, N., 2021, *Model Reduction of Complex Dynamical Systems*. Benner, P. (redactie). Cham: Birkhäuser Verlag, blz. 191-215 25 blz. (International Series of Numerical Mathematics (ISNM); vol. 171).

Reduced basis method for managed pressure drilling based on a model with local nonlinearities

Abbasi, M. H., Iapichino, L., Naderilordejani, S., Schilders, W. H. A. & van de Wouw, N., 15 dec. 2020, In: International Journal for Numerical Methods in Engineering. 121, 23, blz. 5178-5199 22 blz.

Modeling and numerical implementation of managed pressure drilling systems for the assessment of pressure control systems

Naderilordejani, S., Abbasi, M. H., Velmurugan, N., Berg, C., Stakvik, J. A., Besselink, B., Iapichino, L., Di Meglio, F., Schilders, W. H. A. & van de Wouw, N., dec. 2020, In: SPE Drilling & Completion . 35, 4, blz. 598-619 22 blz., SPE-201108-PA.

Model reduction for infinite-dimensional systems: with application to managed pressure drilling

Naderilordejani, S., 20 nov. 2020, Eindhoven: Technische Universiteit Eindhoven. 225 blz.

Model order reduction for linear time delay systems: a delay-dependent approach based on energy functionals

Naderilordejani, S., Besselink, B., Chaillet, A. & van de Wouw, N., feb. 2020, In: Automatica. 112, 10 blz., 108701.

Control-oriented model reduction for a class of hyperbolic systems with application to managed pressure drilling

Leenen, T. C. P. F., Naderilordejani, S. N., Besselink, B., Schilders, W. H. A. & van de Wouw, N., 2020, In: IFAC-PapersOnLine. 53, 2, blz. 7698-7703 6 blz.

An extended model order reduction technique for linear delay systems

Naderilordejani, S., Besselink, B. & van de Wouw, N., dec. 2019, *58th IEEE Conference on Decision and Control (CDC 2019)*. Institute of Electrical and Electronics Engineers, blz. 7782-7787 6 blz. 9029350. (Proceedings of the IEEE Conference on Decision and Control; vol. 2019-December).

A Godunov-type scheme for the drift flux model with variable cross section

Abbasi, M., Naderilordejani, S., Velmurugan, N., Berg, C., Iapichino, L., Schilders, W. & van de Wouw, N., 1 aug. 2019, In: Journal of Petroleum Science and Engineering. 179, blz. 796-813 18 blz.

Reduced basis method for hyperbolic systems with nonlinear boundary conditions

Abbasi, M. H., Iapichino, L., Naderilordejani, S., Schilders, W. H. A. & van de Wouw, N., jun. 2018, blz. 1-1. 1 blz.

Model order reduction for managed pressure drilling systems based on a model with local nonlinearities

Naderilordejani, S., Besselink, B., Abbasi, M. H., Kaasa, G. O., Schilders, W. H. A. & van de Wouw, N., 1 jan. 2018, In: IFAC-PapersOnLine. 51, 8, blz. 50-55 6 blz.

Control-oriented modeling and model order reduction for managed pressure drilling systems

Naderilordejani, S., Besselink, B., Abbasi, M. H., Kaasa, G. O., Schilders, W. H. A. & van de Wouw, N., 2018, *4th International Colloquium on Non-linear dynamics and control of deep drilling systems*. Aarsnes, U. J. F., Detournay, E., van de Wouw, N. & Denoël, V. (redacties). San Francisco: IRIS, blz. 109-120

Nonlinear model order reduction for MPD Systems

Naderilordejani, S., Besselink, B., Schilders, W. H. A. & van de Wouw, N., 2018.

Automatic model order reduction for Hydraulics modeling

Abbasi, M. H., Bansal, H., Naderilordejani, S., Velmurugan, N., Iapichino, L., de Megliu, F., Schilders, W. H. A. & van de Wouw, N., 2017. 1 blz.