List of Master Students, PhD-students and Postdoctoral students

Up to March 2013

PhD-Students

- Former PhD-students

1. A.V. Pavlov (Alexey), The Output Regulation Problem: a Convergent Dynamics Approach, 2004, (Funded by NWO).
2. N. Mihajlovic (Nenad), Torsional and Lateral Vibrations in Flexible Rotor Systems with Friction, 2005 (Funded by the TU/e).
3. R.H.P. Faassen (Ronald), Chatter Prediction and Control for High Speed Milling: Modelling and Experiments, 2007 (ChatterControl Project, Funded by SenterNovem/TNO).
4. A. Doris (Apostolos), Output-feedback design for non-smooth mechanical systems: Control synthesis and experiments, 2007 (Siconos Project, Funded by the EU).
5. M.B.G. Posthumus Cloosterman (Marieke), Stability and Control of Networked Control Systems (Boderc project, Funded by ESI/Senter).
6. N.J.M. van Dijk (Niels), Active chatter control in high-speed milling processes (SenterNovem-IOP project).
7. A. Alvarez Aguirre (Alejandro),Remote Control and motion coordination of mobile robots (Funded by CONACYT)
8. M.C.F. Donkers (Tijs), Networked and event-triggered control systems (in cooperation with Maurice Heemels, Hybrid and Networked Systems Group, TU/e, Funded by ESI/TU/e).
9. B. Besselink (Bart), Model reduction of nonlinear control systems: with Stability Preservation and Error Bounds (Funded by STW).
10. B.J.J. Biemond (Benjamin), Stability, Bifurcations and Stabilisation of Invariant Sets in Differential Inclusions (in cooperation with the University of Groningen, Prof. H. Broer, funded by NWO).
11. N. Bauer (Nick), WIDE-project on Control over Wireless Networks (in cooperation with Maurice Heemels, Control Systems Technology Group, Funded by the EU).

12. S. Oncu (Sinan), Connect & Drive project on Cooperative Adaptive Cruise Control (Funded by HTAS).
13. J. Ploeg (Jeroen), Connect & Drive project on Cooperative Adaptive Cruise Control (Funded by HTAS).
14. B.G.B. Hunnekens (Bram), Hybrid Control for Performance Improvement of Linear Motion Systems (Funded by STW)
15. S.J.L.M. van Loon (Bas), Hybrid Control for Performance Improvement of Linear Motion Systems (Funded by STW)
16. T. Vromen (Thijs), Design and implementation of controllers in oil-field drill-string systems for rate-of-penetration (RPM) increase (Funded by Shell)

- Current PhD-students

1. E. Fonseca (Eduardo), Modelling an analysis of multi-modal vibrations of drilling systems (at the University of Minnesota, U.S.A., Funded by Petrobras)
2. A.I. Morales-Medina (Alejandro), Interoperable GCDC AutoMation Experience (Funded by EU)
3. F. Alavi (Farid), Car as a power plant (at the TUD, Funded by NWO)
4. V. Rostampour (Vahab) , Car as a power plant (at the TUD, Funded by NWO)
5. R. Beerens (Ruud), Hybrid solutions for cost-aware high-performance motion control (Funded by STW)
6. A. van der Maas (Annemiek), Hybrid solutions for cost-aware high-performance motion control (Funded by STW)
7. L. Hazeleger (Leroy), Hybrid solutions for cost-aware high-performance motion control (Funded by STW)
8. M. Abbasi (Mohammad), Hydraulics modelling and model reduction for drilling automation (Funded by EU)
9. S. Naderi Lordejani (Sajad), Hydraulics modelling and model reduction for drilling automation (Funded by EU)
10. H. Bansal (Harshit), Model reduction for delay systems in the scope of drilling automation (Funded by NWO) ¡
11. J. Thomas (Jijju), Understanding and controlling complex systems (Funded by EU)
12. A. Aribowo (Arviandy), Dynamics and Control of Drilling processes (Funded by LPDP)
13. J.M.F. Reinders (Joey), Learning and Automation in Mechanical Ventilation (Funded by Demcon)

Postdoctoral students

- Former Postdocs

    1. L. Hetel (Laurentiu), Networked Control Systems.
    2. S. Lichiardopol (Stefan), Teleoperations (Teleman-0 project (2007-2009), Teleoperated Service Robot (2009-2010)).

Master Students

- Former Master students

    1. A.M.G.L. Teulings, Development of a Numerical Model for the US-DoT Side Impact Dummy, (in cooperation with TNO-Automotive), 2001.
    2. A.H. Koevoets (Marco), Dynamics of an Automatic Dry Ball Balancer Applied to a Disk System, (in cooperation with Philips-POS), 2001.
    3. J.C.J. Nooijens, Mechatronische Benadering tot Conceptvorming, (in cooperation with Mecal), 2001.
    4. H.H. Spit (Han-Hein), MC-CRASH Probability Distributions in Traffic Accidents, (in cooperation with TNO-Automotive), 2002.
    5. A.A. van Veggel (Mariëlle), Modelling of a Drill-string Set-up and Experimental Evaluation of Friction-induced Limit-cycling, (TU/e), 2002.
    6. R.P.H. Faassen (Ronald), Modelling of High-speed Milling for the Prediction of the Occurrence of Regenerative Chatter, (in cooperation with TNO Science and Industry), 2002.
    7. R.A.C.M. Beerens (Ruud), Performance improvement of a car DVD module using hybrid control, (in cooperation with Philips Applied Technologies), 2002.
    8. M.N. van den Heuvel (Martin), Modelling and Analysis of an Automatic Balancing Unit with Dry Friction, (TU/e) 2002. This work was awarded with the Unilever Research Prize.
    9. N.J. Mallon (Niels), Limit-cycling in Observer-based controlled mechanical systems with friction, (TU/e), 2003.
    10. B.A.W. van Spaendonk (Bram), Safety potential of pre-crash systems in a frontal-crash situation, (in cooperation with Volkswagen-Wolfsburg (Germany)), 2003.
    11. R.P.F. Nooijen (Ralf), Modelling and analysis of the vibrational behaviour of a shaver, (in cooperation with Philips-DAP), 2004.
    12. M.P.M. Hendriks (Maarten), Modelling and analysis of stick-slip and whirl limit-cycling in a drill-string set-up, (TU/e), 2004.
    13. H.A. Pastink (Erik), Stability and performance of variable-gain controlled optical storage drives (in cooperation with Philips Applied Technologies), 2004. This work was awarded with KIVI Control Prize 2005 and the Unilever Research Prize 2005.

14. B.R.A. Jansen (Bart), Output Regulation for a Nonlinear Mechanical System: from Design to Experiments (TU/e), 2005.
15. M. Meijboom (Marion), Non-model-based Friction Compensation for a system with non-collocated friction, (TU/e), 2005.
16. H.L. Hagenaars (Jeroen), Stability Analysis of Sampled-Data Systems with Network Delays, (TU/e), 2005.
17. A. Bommer (Ard), A Nonlinear Vehicle Model for Comfort Analysis (in cooperation with LMS, Belgium), 2006.
18. C.T.T Geluk (Theo), Vehicle Vibration Comfort; the Influence of Dry Friction in the Suspension (in cooperation with LMS, Belgium), 2006.
19. N.J.M. van Dijk (Niels), Generic Trajectory generation for Industrial Manipulators (in Cooperation with Bosch Rexroth), 2006.
20. N. de Bont (Niels), Disturbance Attenuation for an Experimental Piecewise Linear System. (TU/e), 2006.
21. J.C.A. de Bruijn (Jan-Kees), Observer-based Control of Systems with Non-collocated Discontinuous Friction and Actuation, (TU/e), 2006.
22. S.N. van den Brink (Stef), Modelling And Control of a Robotic Arm Actuated by Nonlinear Artificial Muscles (in cooperation with Philips AppTech), 2007.
23. E.A. Geurtsen (Evert), Modelling and Identification of the High-speed Milling Process (in cooperation with TNO Science and Industry), 2007.
24. M.H.G.W. Hees (Marc), Attractivity of equilibrium Sets in an Automatic Balancer for DVD players, (TU/e), 2007.
25. E.M.P. van de Wiel (Erwin), Experimental Analysis of the Stability of Networked Control Systems with Network Delays, (TU/e), 2007.
26. B. Besselink (Bart), Dynamic modelling, analysis and validation of drillstring dynamics, (in cooperation with CSIRO, Australia and University of Minneapolis, U.S.A., 2008)
27. T.H.A. van den Broek (Thijs), Cooperative Control of Mobile Robots, (TU/e), 2008.
28. B. Biemond (Benjamin), Bifurcations in Non-smooth systems, (TU/e), 2009.
29. T. Verschuren (Tom), Spindle Control in the high-speed milling process, (in cooperation with TNO), 2009.
30. F.C. van Zwieten (Francis), Rotor dynamic analysis of a micro turbine, (in cooperation with MTT), 2009.
31. P. de Schrijver (Pim), Control of Automated Guided Vehicles, (in cooperation with TNO-Automotive), 2009.
32. J. van Schendel, Networked Control Systems (a Matlab Toolbox for Stability Analysis), (in cooperation with Maurice Heemels), 2009.

33. R. van Raaij (Ruud), Teleoperations, 2009.
34. T. Wegman (Theo), Efficient Chatter prediction in High-speed Milling, (in cooperation with TNO), 2010.
35. B.G.B. Hunnekens (Bram), Nonlinear Performance-based Control of Motion Systems, 2011.
36. M.A.M. Haring (Mark), Extremum Seeking Control for non-equilibrium steady-states, 2011.
37. T.M.W. van Tilburg (Tom), Sensorless haptic feedback in teleoperation (in cooperation with Dragan Kostic), 2011.
38. S.J.L.M. van Loon, Networked and quantised control systems (in cooperation with Maurice Heemels), 2011.
39. T.M.P. Gommans (Tom), Networked control systems (in cooperation with Maurice Heemels), 2011.
40. H.G. Yegen (Gokay), Model reduction and control of thermal systems (in cooperation with Philips AppTech and the scope of an STW project), 2012.
41. E.J.W. Roebroek (Erik), Control of a tractor-trailor system, 2012.
42. S.M.F. Dierikx (Stijn), Control of torsional vibrations in drilling systems (in cooperation with Shell), 2012.
43. Amir Firooznia, CACC Controller Design for infinite vehicle strings (in cooperation with Prof. hans Zwart and TNO), 2012.
44. Dipan Shukla, Controller Design for Multiple Vehicle Look-ahead CACC vehicle following (in cooperation with TNO), 2013.
45. Y.Chen (Yuan), Temperature control for a lab-on-chip (in cooperation with Philips Research Labs), 2013.
46. N. Kremers (Niek), Control of Directional Drilling Processes (in cooperation with the University of Minnesota, U.S.A.), 2013.
47. P.J. Ritzen (Paul), Trailer steering control for an off-axle tractor-trailer robot: reducing the swept path width, 2014.
48. A. Simon (Andrei), 'Band-width on-demand' motion control (in cooperation with Maurice Heemels and FEI Company), 2015.
49. M. Fusco (Mauro), Cooperation in multi-agent systems through consensus (in cooperation Prof. Mario di Bernardo, University of Naples, Italy), 2015.
50. J. Zegers (Jeroen), Modeling of vehicle platoon control as a consensus seeking (in cooperation with TNO), 2015.
51. H. Vos (Harm), Modelling and control of off-shore lifting crane systems (in cooperation with Fistuca), 2015.

52. C-H Dai (Cam-Hing), Robust output-feedback control of stick-slip oscillations in drill-strings (in cooperation with Shell), 2015.
53. E. Hillen (Erik), "Trajectory optimization for non-smooth mechanical systems" (in cooperation with Alessandro Saccon), 2015.
54. W.L.O. Verstrijden (Olaf), Modelling and Analysis of a down-hole anti-stall tool for the mitigation of stick-slip oscillations in drill-string systems (in cooperation with Tomax, Shell), 2015.
55. T. Dorussen (Tom), Experimental validation of robust output-feedback controllers for the mitigation of stick-slip oscillations in drilling systems, 2015.
56. F. Monsieurs (Frank), Control of 3D directional drilling processes (in cooperation with the University of Minnesota, U.S.A.), 2015.
57. P. Hatzidimitris (Pavlos), Control of long truck-trailer combinations, 2015.
58. J. Alleleijn (Joep), Longitudinal and steering control for cooperative vehicular driving (in collaboration with TNO), 2015.
59. E. Fonseca (Eduardo), Modelling an analysis of multi-modal vibrations of drilling systems (at the University of Minnesota, U.S.A., in collaboration with Petrobras), 2016.
60. M. van Helmond (Max), Experimental validation of robust output-feedback controllers for the mitigation of stick-slip oscillations in drilling systems (in collaboration with Shell), 2016.
61. P. Blatter (Paul), Modelling and Analysis of a down-hole anti-stall tool for the mitigation of stick-slip oscillations in drill-string systems (in cooperation with Tomax, Shell and the University of Minnesota, U.S.A.), 2016.
62. Octavio Villareal, Output-based robust control of 3D directional drilling processes (at the TUD, in cooperation with the University of Minnesota), 2016.
63. Bart Heijke, Modelling of directional drilling processes (at the TUD, in cooperation with the University of Minnesota), 2016.
64. Wouter Janssen, Lateral control of platooning systems (at the TUD, in collaboration with TNO), 2016.
65. Eric de Mooij, Hybrid control for humanoid robots, 2016.
66. Joska Lako, Managed Pressure Drilling, (at the TUD, in cooperation with Prof. Babuska and Huisman), 2017.
67. Falco Creemers, Cooperative Intersection Control.
68. Sjors Kamps, Control of a respiratory system (in collaboration with Demcon-Macawi).
69. Marco van der Arend, Force Estimation for Offshore Heavy Lifting Equipment, (at the TUD, in cooperation with Prof. Mazo and SeaState5).

- Current Master students

  1. C. Zeegers (Carel), High precision control of a coarse stage with fine stage (in cooperation with FEI).
  2. Fahim Shakib, Non-smooth modelling of directional drilling processes (in cooperation with the University of Minnesota).
  3. Omar Hassanain, Lateral String Stability of Vehicle Platoons, (in cooperation with TNO).
  4. Camiel Beckers, Study of shimmy on landing gears with bifurcation methods, (in cooperation with Fokker Landing Gear and Siemens).
  5. Joey Reinders, Robust Cooperative Adaptive Cruise Control (in cooperation with TNO).
  6. Stijn Thissen, Control of a modular linear motion system (in cooperation with Bosch Rexroth B.V.)
  7. Hao Liang Chen, Trajectory tracking control in the presence of multiple impacts for non-fixed mode sequences.
  8. Roy Reinders, Modelling and control of a Generic Substrate Carrier (in collaboration with CCM).
  9. Frank Heck, Adaptive control for mechanical ventilation (in collaboration with Demcon-Macawi).
  10. David Fresen, Control of motion stages with friction (in collaboration with Thermo Fisher).
  11. Luuk Zwaans, Model-based Development of High Tech Mechatronics Systems With Structurally Deformable Parts (in collaboration with ASM PT).
  12. Patrick de Carvalho Monteiro, Thermal modelling and control of a reticle stage (at TUD, in collaboration with ASML).
  13. Angel Molina Acosta, Multi-layer control for heterogeneous vehicular platooning.