

## Boris Houska

ShanghaiTech University  
School of Information Science and Technology  
393 Huaxia Middle Road, 201210 Shanghai, China.  
[borish@shanghaitech.edu.cn](mailto:borish@shanghaitech.edu.cn)  
<http://sist.shanghaitech.edu.cn/faculty/boris>

## Experience

Assistant Professor, School of Information Science and Technology, ShanghaiTech, 2014–present  
Academic Visitor, CPSE, Imperial College London, Summer 2018  
Visiting Scholar, EECS, University of California, Berkeley, Winter 2016  
Visiting Professor, Institute for Microsystems Engineering, University of Freiburg, Summer 2014  
Visiting Professor, Freiburg Institute for Advanced Studies, University of Freiburg, Summer 2014  
Research Faculty, Department of Automation, Shanghai Jiao Tong University, 2013–2014  
Postdoctoral Researcher, CPSE, Imperial College London, 2012–2013  
Postdoctoral Researcher, Optimization in Engineering Center, KU Leuven, 2011

## Education

Ph.D. in Electrical Engineering, KU Leuven, 2011  
Diploma in Mathematics, University of Heidelberg, 2007

## Research Areas

- Control theory and algorithms, embedded control
- Distributed- and robust optimization, optimal control
- Numerical optimization and control algorithms, cyber-physical systems
- Set-based computing algorithms, applications in robust- and global optimal control
- Optimization and real-time control software

## Honors and Awards

- ShanghaiTech Excellent Professor Award, ShanghaiTech University, 2016.
- SIST Excellence in Research Award, ShanghaiTech University, 2016.
- FRIAS Fellowship (for visiting professors), Freiburg Institute for Advanced Studies, University of Freiburg, 2014.

- ICCOPT Best Paper Award for a Young Researcher in Continuous Optimization (Finalist, Top 3) for the paper “Nonlinear Robust Optimization via Sequential Convex Bilevel Programming” by B. Houska and M. Diehl, *Mathematical Programming, Series A*, 2013.
- Marie-Curie Fellowship for the project “Next Generation Algorithms for Robust and Global Optimization of Dynamic Systems”, 2012.

## Plenary and Distinguished Lectures

1. Keynote lecture on “Robust Model Predictive Control”, CPSE Summer School on “Recent advances in robust control”, Imperial College London, September 3–6, 2018. (invited by prof. Wolfram Wiesemann)
2. Keynote lecture (in the form of a workshop) on “Distributed Optimization and Control with ALADIN”, 21st International (IFAC) Conference on Process Control, Štrbské Pleso, Slovakia, June 6–9, 2017. (invited by prof. Miroslav Fikar and prof. Michal Kvasnica)
3. Plenary lecture as a co-author (presented by the first author, Benoît Chachuat) at the 9th International Symposium on Advanced Control of Chemical Processes (ADCHEM), Whistler, British Columbia, Canada, June 2015.
4. Plenary speaker in the best paper award session at the International Conference on Continuous Optimization (ICCOPT), Lisbon, 2013.
5. Plenary lecture (on behalf of prof. Moritz Diehl) at the 2nd International Workshop on Mathematics and Algorithms for Computer-Aided Manufacturing, Engineering and Numerical Control (MAMENC), October 25–26, Beijing, 2012.

## Invited Talks and Seminars

1. B. Houska, M.E. Villanueva. Gram-Charlier expansion methods and their applications in control. Slovak University of Technology in Bratislava, Slovakia, October 4, 2018. (invited by prof. Radoslav Paulen)
2. B. Houska and B. Chachuat. Global optimization in Hilbert space. International Symposium on Mathematical Programming (ISMP 2018), Bordeaux, France, July 1–6, 2018. (invited by prof. Coralia Cartis)
3. M.E. Villanueva, X. Feng, B. Houska. Backward-forward reach set splitting for differential games. 14th Viennese Conference on Optimal Control and Dynamic Games, Vienna, July 3–6, 2018. (invited by prof. Karl Worthmann)
4. B. Houska. Fighting uncertainty—self reflecting and dual control. Fourth Symposium on Future Innovations in Process Systems Engineering (FIPSE’18), Chakidiki, Greece, June 25–27, 2018.
5. B. Houska. Set Based Computing Methods in Optimization and Control. Institute for Automation Engineering, Otto von Guericke University Magdeburg, March 7, 2018. (invited by prof. Rolf Findeisen)

6. X. Feng, M.E. Villanueva, B. Houska. Differential games: a reach set approach. INFORMS Annual Meeting, Houston, USA, October 22, 2017.
7. B. Houska. Set Based Computing Methods in Optimization and Control. Automatic Control, Automation and Mechatronics Division, Chalmers University of Technology, Gothenburg, September 5, 2017. (invited by Dr. Mario Zanon)
8. Y. Zha, B. Houska. Interval Superposition Arithmetic. Bremen Institute of Industrial Technology, University of Bremen, June 20, 2017. (invited by prof. Jürgen Pannek)
9. B. Houska, X. Feng. Self-reflective model predictive control. Slovak University of Technology in Bratislava, Slovakia, June 13, 2017. (invited by prof. Radoslav Paulen)
10. J.C. Li, B. Houska. Robust model predictive control using ellipsoidal robust forward invariant tubes. Bremen Institute of Industrial Technology, University of Bremen, June 13, 2017. (invited by prof. Jürgen Pannek)
11. B. Houska. Set Based Computing Methods in Optimization and Control. Hybrid Systems Group Seminar, EECS, University of California, Berkeley, February 8, 2017. (invited by prof. Claire Tomlin)
12. M.A. Müller, B. Houska. Cost-to-travel functions—a new perspective on economic model predictive control. Joint Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM), March 6–10, 2017.
13. Y. Jiang, B. Houska. Distributed Optimization and Control with ALADIN. Institute for Microsystems Engineering, University of Freiburg, Germany, September 2, 2016. (invited by prof. Moritz Diehl)
14. B. Houska, X. Feng. Self-reflective model predictive control. Institute for Microsystems Engineering, University of Freiburg, Germany, September 2, 2016. (invited by prof. Moritz Diehl)
15. Y. Jiang, B. Houska. Distributed Optimization and Control with ALADIN. Institute for Systems Theory and Automatic Control, University of Stuttgart, Germany, August 31, 2016. (invited by Dr. Matthias A. Müller)
16. B. Houska, X. Feng. Self-reflective model predictive control. Institute for Systems Theory and Automatic Control, University of Stuttgart, Germany, August 30, 2016. (invited by Dr. Matthias A. Müller)
17. B. Houska, J.C. Li, B. Chachuat. Robust optimal control using generalized higher order moment expansions. 5th International Conference on Continuous Optimization (ICCOPT), Tokyo, Japan, August 8–11, 2016. (invited by prof. Ishan Yanikoglu)
18. B. Houska. Global optimization in control: potential and open problems. Third Symposium on Future Innovations in Process Systems Engineering (FIPSE'16), Rhodes, Greece, June 20–23, 2016.
19. B. Houska. Nonlinear and robust MPC using min-max differential inequalities. Slovak University of Technology in Bratislava, Slovakia, June 10, 2016. (invited by prof. Michal Kvasnica and Dr. Juraj Oravec)

20. B. Houska. ALADIN—An Augmented Lagrangian Based Algorithm for Distributed Non-Convex Optimization and Control. Slovak University of Technology in Bratislava, Slovakia, June 9, 2016. (invited by prof. Michal Kvasnica and Dr. Juraj Oravec)
21. B. Houska. Nonlinear and robust MPC with applications in robotics. Workshop on Robust Optimization-Based Control and Planning for Legged Robots, IEEE International Conference on Robotics and Automation (ICRA), Stockholm, May 16, 2016. (invited by prof. Russ Tedrake and Dr. Andrea Del Prete)
22. B. Houska. ALADIN—An Augmented Lagrangian Based Algorithm for Distributed Non-Convex Optimization and Control. Workshop on Economic and Distributed Model Predictive Control, Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland, March 21–23, 2016. (invited by prof. Colin Jones and Dr. Timm Faulwasser)
23. B. Houska. Enforcing Asymptotic Orbital Stability of Economic MPC. 1st Symposium on Robotics and Model Predictive Control: Path Following, BIBA, University of Bremen, Germany, September 13–16, 2015. (invited by prof. Karl Worthmann)
24. B. Houska. Nonlinear MPC in the Microsecond Range. 1st Symposium on Robotics and Model Predictive Control: Path Following, BIBA, University of Bremen, Germany, September 13–16, 2015. (invited by prof. Jürgen Pannek)
25. B. Houska. Global Optimal Control Algorithms and Their Application to Biochemical Processes Control. Carnegie Mellon University, USA, July 23, 2015. (invited by prof. Lorenz T. Biegler)
26. B. Houska, J. Frasch, M. Diehl. Augmented Lagrangian Based Algorithm for Distributed Optimal Control. *International Symposium on Mathematical Programming (ISMP)*, Pittsburgh, USA, July 17, 2015. (invited by prof. Christian Kirches)
27. B. Houska. Enforcing Asymptotic Orbital Stability of Economic Model Predictive Control. Magdeburg Lectures on Optimization and Control, University of Magdeburg, Germany, 2014. (invited by prof. Rolf Findeisen)
28. B. Houska. Set-Valued Integrators and Their Application in Robust Optimal Control. FRIAS Workshop on Robust Optimization and Control, University of Freiburg, Germany, 2014. (invited by prof. Moritz Diehl)
29. B. Houska, B. Chachuat. Global Optimization in Infinite Dimensional Hilbert Spaces. SIAM Conference on Optimization, San Diego, USA, 2014. (invited by prof. Christopher Thomas Ryan)
30. B. Houska. Global Optimal Control Algorithms and Their Application to Biochemical Processes Control. OPTEC mini symposium—Computer-aided process engineering for modeling, control and optimization in the (bio)chemical industry: the quest for efficient, clean and safe solutions, KU Leuven, Belgium, 2014. (invited by prof. Jan Van Impe)
31. J. Rajyaguru, M.E. Villanueva, B. Houska, B. Chachuat. Higher-Order Inclusions of Nonlinear Systems By Chebyshev Models. AICHE Annual Meeting, Atlanta, GA, Nov 16–21, 2014.

32. B. Houska. Numerical Methods for Fast Optimal Control of Mechatronic Systems. ShanghaiTech University, February 19, 2014. (invited by prof. Shuguang Cui)
33. B. Houska, M.E. Villanueva, B. Chachuat. Validated Integration of Nonlinear ODEs Using Taylor Models and Ellipsoidal Calculus. AICHE Annual Meeting, San Francisco, CA, November 3–8, 2013.
34. B. Houska, B. Chachuat. Branch-and-Lift Algorithm for Deterministic Global Optimization in Nonlinear Optimal Control. AICHE Annual Meeting, San Francisco, CA, November 3–8, 2013.
35. B. Houska, B. Chachuat. Branch-and-Lift Algorithm for Deterministic Global Optimization in Nonlinear Optimal Control. 4th International Conference on Continuous Optimization (ICCOPT), Lisbon, Portugal, July 27–August 1, 2013.
36. B. Houska, B. Chachuat. A Direct Method for Deterministic Global Optimization of Nonlinear Optimal Control Problems. INFORMS Annual Meeting, Phoenix, USA, 2012. (invited by Dr. Polyxeni-Margarita Kleniati)
37. B. Houska, M. Villanueva, M. Diehl, and B. Chachuat. Comparison of Bounding Techniques for Nonlinear ODEs. Computational Management Science Conference, London, 2012.
38. B. Houska, M. Diehl, O. Stein, P. Steuermann. Lifting methods for generalized semi-infinite programs. *International Symposium on Mathematical Programming (ISMP)*, Berlin, Germany, 2012. (invited by prof. Daniel Kuhn)
39. B. Houska. Robust Optimization of Dynamic Systems. Workshop on Modeling, Simulation, and Optimization of Uncertain Systems, Heidelberg, Germany, 2012. (invited by prof. Christian Kirches)
40. B. Houska. Lifting Methods for Generalized Semi-Infinite Programs. QUADS Seminar, Imperial College London, March 22, 2012. (invited by prof. Daniel Kuhn)
41. J. Gillis, J. Geebelen, J. Sternberg-Kaletta, S. Gros, B. Houska, M. Diehl. Lyapunov based design of robust linear-feedback for time-optimal periodic quadcopter motion. *Benelux Meeting on Systems and Control*, Heijderbos, Heijen/Nijmegen, The Netherlands, March 27–29, 2012.
42. F. Logist, D. Telen, M. Vallerio, P. Van Erdeghem, B. Houska, M. Diehl, J. Van Impe. Multi-objective optimal control of dynamic industrial processes. *International Conference on Multiple Criteria Decision Making*, Jyväskylä, Finland, June 13–17, 2011.
43. B. Houska and M. Diehl. Robust Optimization of Nonlinear Constrained Dynamic Systems. *SIAM Conference on Optimization*, Darmstadt, Germany, 2011. (invited by prof. Dick Den Hertog)
44. B. Houska, J. Sternberg, and M. Diehl. Numerical Methods to Compute Periodic and Open-Loop Stable Orbits. *International Airborne Windenergy Conference*, Leuven, Belgium, 2011.
45. B. Houska. Solving Robust Optimal Control Problems with ACADO Toolkit. School of Mathematical Sciences, Shanghai Jiao Tong University, 2009. (invited by prof. Jinyan Fan)

46. M. Diehl and B. Houska. Optimal Control of Large Power Generating Kite Systems. *SIAM Conference on Optimization*, Boston, USA, 2009.
47. B. Houska, H.J. Ferreau, M. Diehl. ACADO—An Open-Source Toolkit for Automatic Control and Dynamic Optimization. *Belgian-French-German Conference on Optimization*, Leuven, Belgium, 2009.
48. B. Houska and M. Diehl. Modeling and Parameter Estimation for Power Generating Kites. *Conference on Modeling, Simulation and Optimization of Complex Processes*, Heidelberg, Germany, 2008.
49. B. Houska and M. Diehl. Robustness and Stability Optimization for Nonlinear Time-Periodic Systems with Inequality State Constraints. *OPTEC Workshop on Distance Measures and Eigenvalue Optimization*, Leuven, Belgium, 2008.
50. B. Houska and M. Diehl. Robust and Nonlinear Model Predictive Control for Power Generating Kites. *Workshop on Robust MPC*, Leuven, Belgium, 2008.

## Poster Awards

- CAST Directors' Award for the poster "Higher-Order Inclusions of Nonlinear Systems" by B. Chachuat, J. Rajyaguru, M.E. Villanueva, and B. Houska, 2015.
- Best Poster Award (3<sup>rd</sup> prize) for the poster "Efficient numerical methods for computation of open-loop stable kite orbits." by J. Sternberg, B. Houska, M. Diehl, Airborne Wind Energy Conference (AWEC), 2011.

## Research Projects and Leadership Roles

- Bilateral Grant Agreement (Slovakia-China, together with prof. Radoslav Paulen) for the project “Verified Estimation and Control of Chemical Processes”, 2018–2020.
- Full member of the Scientific Network on “External Regulation of Mobile Robots using Model Predictive Control: Beyond Set Point Stabilization” funded by German Research Foundation (DFG), 2017–2018.
- Bilateral Grant Agreement (Slovakia-China, together with prof. Michal Kvasnica) for the project “Robust Model Predictive Control meets Robotics”, 2015–2017.
- NSFC Grant for the project “Embedded Optimization Algorithms for Economic Model Predictive Control”, National Natural Science Foundation China, 2015–2018.
- Associated member of the Scientific Network on “External Regulation of Mobile Robots using Model Predictive Control: Set Point Stabilization, Path Following, and Distributed Control” funded by German Research Foundation (DFG), 2015–2016.
- Marie-Curie project (FP7) “Next Generation Algorithms for Robust and Global Optimization of Dynamic Systems”, 2012.
- Various institutional grants (Imperial College London (2013), Shanghai Jiao Tong University (2013/14), ShanghaiTech University (2014–present)).

## URL Links

- Latest version of this CV: [sist.shanghaitech.edu.cn/faculty/boris/downloads/houska\\_cv.pdf](http://sist.shanghaitech.edu.cn/faculty/boris/downloads/houska_cv.pdf)
- Orcid ID: <https://orcid.org/0000-0002-6761-239X>
- Google Scholar: [scholar.google.com/citations?user=FetRI5cAAAAJ&hl=en](http://scholar.google.com/citations?user=FetRI5cAAAAJ&hl=en)
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=23008711800>
- ResearchGate: [https://www.researchgate.net/profile/Boris\\_Houska](https://www.researchgate.net/profile/Boris_Houska)

## Advising

### Postdocs

- Main supervisor of Mario E. Villanueva, ShanghaiTech University, 2017–present.
  - Winner of the 2016 Dudley Newitt Prize

### Graduate Students

- Main supervisor of Jiahe Shi, ShanghaiTech University, 2018–present.
- Main supervisor of Xu (Michael) Du, ShanghaiTech University, 2017–present.
- Main supervisor of Kai Wang, ShanghaiTech University, 2017–present.
- Main supervisor of Xuhui Feng, ShanghaiTech University, 2014–present.
- Main supervisor of Yuning Jiang, ShanghaiTech University, 2014–present.
- Main supervisor of Yanlin Zha, ShanghaiTech University, 2015–2018.
  - Part time intern at ABB Shanghai, 2017
  - Master at ShanghaiTech, 2018
  - Now PhD student at Imperial College London
- Main supervisor of Jiaqi (Catherine) Li, ShanghaiTech University, 2015–2018.
  - Master at ShanghaiTech, 2018
  - Now Engineer at 3M Shanghai

### Undergraduate Students

- Main supervisor of Junyan Su, ShanghaiTech University, 2018–present.
  - Concurrent enrollment student at UC Berkeley, 2018–present
  - Summer school student at CMU (via RISS program), 2018
- Main supervisor of Haimin Hu, ShanghaiTech University, 2017–2018.
  - Concurrent enrollment student at UC Berkeley, 2017–2018
  - Now with U. Penn, co-supervised by prof. G.J. Pappas and prof. M. Morari
- Main supervisor of Jiahe Shi, ShanghaiTech University, 2017–2018.
  - Semi-Finalist at Microsoft Imagine Cup, 2017
  - Now with ShanghaiTech University
- Main supervisor of Yi Zheng, ShanghaiTech University, 2017–2018.
  - now with University of Southern California, Los Angeles

### Visiting Faculty

- Host of Miroslav Fikar, ShanghaiTech University, July 2018.
  - (professor at Slovak Institute of Technology in Bratislava)
- Host of Radoslav Paulen, ShanghaiTech University, July 2018.
  - (associate professor at Slovak Institute of Technology in Bratislava)



- Host of Karl Worthmann, ShanghaiTech University, March 2016 and April 2018.  
(junior professor at University of Ilmenau)

### Visiting Postdocs

- Host of Matthias A. Müller, ShanghaiTech University, April 2018.  
(formerly Univ. of Stuttgart, now professor at Univ. of Hannover)
- Host of Juraj Oravec, ShanghaiTech University, September 2016.  
(postdoc at Slovak Institute of Technology in Bratislava)

### Visiting Students

- Host of Elena De Lazzari, ShanghaiTech University, 2017–2018.  
(Master from TU Delft)
- Host of Alexander Murray, ShanghaiTech University, Fall 2017.  
(PhD student at Karlsruhe Institute of Technology)
- Host of Daniela Paksiova, ShanghaiTech University, September 2016.  
(now with Honeywell, Brno)
- Host of Rien Quirynen, Shanghai Jiao Tong University, Spring 2014.  
(now with Mitsubishi Electrical Research Lab)

### Co-supervised Students

- Co-supervisor of Mario E. Villanueva, Imperial College London, 2013–2016.  
(Ph.D. 2016, first position: postdoc at Texas A&M, now with ShanghaiTech)
- Co-supervisor of Jai Rayjaguru, Imperial College London, 2013–2016.

### Awards to my Students

- DAAD Scholarship for a 4 months research stay at the Institute of Industrial Technology, Bremen (via German Academic Exchange Service) for the project “Robust Model Predictive Control for Carrying Glassplates with KUKA Robots”, awarded to Jiaqi C. Li, 2017.
- DAAD Scholarship for a 4 months stay at the Institute of Industrial Technology, Bremen (via German Academic Exchange Service) for the project “Distributed Set-Valued Computation for Traffic Intersection Coordination”, awarded to Yanlin Zha, 2017.
- Scholarship for a 6 months research stay at the Institute for Microsystems Engineering (IMTEK), University of Freiburg (via prof. Moritz Diehl), awarded to Yuning Jiang, 2017.
- 2017 National Scholarship (China), awarded to Xuhui Feng, 2017.
- 2016 National Scholarship (China), awarded to Yuning Jiang, 2016.
- 2015 National Scholarship (China), awarded to Yuning Jiang, 2015.

## Professional Service

### ShanghaiTech Service and Leadership Roles

- Co-chair of SIST Degree Committee, 2018–present.
- Member of SIST Faculty Search Committee, 2015–2018.
- Advisory service for the University Leadership on International Faculty Search, 2017.  
(university-wide committee, invited by Vice President Renchang Hua)
- Chair of SIST Graduate Admission Committee, March 2017.
- Member of SIST Seminar Committee, 2017–2018.
- Member of SIST Public Relations Committee, 2015–2016.

### Technical Meetings—Leadership Roles

- Organizer of the “International Workshop on Advanced Methods for Control and Estimation of Dynamic Systems (AMCEDS 2018)”, ShanghaiTech University, Shanghai, China, July 23, 2018.  
(together with prof. Radoslav Paulen, Dr. Juraj Oravec, and Dr. Mario E. Villanueva)
- Organizer of the Scientific Network Meeting “Regulation of Mobile Robots using MPC: Beyond Set Point Stabilization”, Chalmers University of Technology, Gothenburg, Sweden, September 4–6, 2017.  
(together with prof. Karl Worthmann and Dr. Mario Zanon)
- Organizer of the “2015 ShanghaiTech Workshop on Model Predictive Control”, School of Information Science and Technology, ShanghaiTech, China, December 11, 2015.
- Organizer of the “FRIAS Workshop on Robust Optimization and Control”, Freiburg Institute for Advanced Studies, University of Freiburg, Germany, August 20, 2014.
- Co-organizer of the OPTEC Workshop on Distance Measures and Eigenvalue Optimization, June 19-20, Leuven, 2008.  
(together with prof. W. Michiels, Dr. J. Vanbierfliet, and prof. M. Diehl)
- Co-organizer of the International Workshop on Modelling and Optimization of Power Generating Kites, January 30, Leuven, 2007.  
(together with A. Ilzhöfer and prof. M. Diehl)

### Technical Program Committee

- International program committee member, 58th IEEE Conference on Decision and Control, December 11–13, 2019.
- International program committee member, 12th IFAC Symposium on Dynamics and Control of Process Systems, April 23–26, 2019.
- International program committee member, 6th IFAC International Conference on Nonlinear Model Predictive Control, August 19–22, 2018.

- International program committee member, 15th IEEE International Symposium on Safety, Security, and Rescue Robotics, October 11–13, 2017.
- International program committee member, Airborne Wind Energy Conference, October 5–6, 2017.

### Conference Session Chair/Co-chair

- Chair of the session *Predictive Control of Nonlinear Systems I*, 57th IEEE Conference on Decision and Control, Florida, December, 2018.  
(upcoming)
- Area chair (for the area “optimization”), 6th IFAC International Conference on Nonlinear Model Predictive Control, August, 2018.
- Chair of the outbreak session *Open problems, tools, and methods to handle and tackle uncertainty in large scale systems*, Fourth Symposium on Future Innovations in Process Systems Engineering (FIPSE’18), Chakidiki, Greece, June 25–27, 2018.
- Organizer and chair of the invited session *Global Optimization*, INFORMS Annual Meeting, Houston, USA, October, 2017.  
(together with Dr. Mario E. Villanueva)
- Chair of the session “Sparse Representation”, ShanghaiTech Symposium on Data Science, Shanghai, June 2015.
- Chair of the session “Large Scale Parallel and Distributed Optimization”, ShanghaiTech Symposium on Data Science, Shanghai, June 2015.
- Chair of the invited session *Topics in Global Optimization*, INFORMS Annual Meeting, Phoenix, USA, 2012.
- Chair of the session *Robust Nonlinear Control I*, 7th IFAC Symposium on Robust Control Design, Aalborg, Denmark, 2012.
- Co-chair of the session *Robustness Analysis*, 7th IFAC Symposium on Robust Control Design, Aalborg, Denmark, 2012.

### Expert Reviewer for Funding Agencies

- Expert reviewer for Research Foundation Flanders (FWO), 2017.
- Expert reviewer for German Research Foundation (DFG), 2016/17.

### Editorial Activities

- Subject Editor, *Optimal Control Applications & Methods*, 2018–present.
- Associate Editor, *IFAC NMPC (Conference Proceedings)*, 2018.

## Technical Reviewer

- Automatica
- IEEE Transactions on Automatic Control
- SIAM Journal on Optimization (SIOPT)
- SIAM Journal on Control and Optimization (SICON)
- Journal of Process Control
- Mathematical Programming
- Applied Numerical Mathematics
- Structural and Multidisciplinary Optimization
- Journal of Global Optimization (JOGO)
- Optimal Control Applications & Methods (OCAM)
- Systems & Control Letters
- Optimization Letters
- Journal of Control Engineering Practice
- Computers & Chemical Engineering
- Selected international control conferences: CDC, ECC, ACC, IFAC World Congress.

## Opponent Services

- External assessor (member of Ph.D. jury committee) of Dries Telen, KU Leuven, 2014.
- Co-examiner of Benedikt Schleusener's Bachelor Defense, University of Freiburg, 2014.

## Teaching

### Summary

Dr. Houska teaches the undergraduate course *Introduction to Control* and two major graduate courses, named *Linear Systems* and *Numerical Analysis*. All three courses have been developed from scratch at ShanghaiTech University. He offers block courses on *Optimal Control* and contributed to the development of his school's flag-ship lecture on *Introduction to Information Science and Technology* for first year students.

### ShanghaiTech University

- Introduction to Control.  
Spring 2017 and Fall 2017.  
<http://sist.shanghaitech.edu.cn/faculty/boris/EE160.html>
- Optimal Control.  
Summer 2016.  
<http://sist.shanghaitech.edu.cn/faculty/boris/EE263.html>
- Linear Systems.  
Spring 2015 and Spring 2016.  
<http://sist.shanghaitech.edu.cn/faculty/boris/EE550.html>
- Numerical Analysis.  
Fall 2014, Fall 2015, Spring 2017, and Fall 2017.  
<http://sist.shanghaitech.edu.cn/faculty/boris/TF502.html>
- Linear Algebra.  
As substitute teacher (2 x 2h): Fall 2017.
- Introduction to Information Science and Technology.  
As assistant teacher: Spring 2015, Spring 2016, Spring 2017, and Spring 2018.

### University of Freiburg

- Organizer of the “TEMPO-Course on Robust Optimal Control” (together with S. Diamond, Stanford), September 3-4, University of Freiburg, 2014.

### Shanghai Jiao Tong University

- Assistant teacher of the course “Basic Principles of Automation” (together with Wei Wang), Fall 2013.

### University of Trento

- Co-organizer and teacher of the “Nonlinear Dynamic Optimization Course” (together with M. Diehl), July 4-8, Trento, 2011.

## **Norwegian University of Science & Technology**

- Co-organizer and teacher of the “Numerical Optimal Control Course” (together with M. Diehl), June 7-11, Trondheim, 2010.

## **KU Leuven**

- Organizer of the OPTEC Tutorial Course on Automatic Control and Dynamic Optimization (together with M. Diehl and H.J. Ferreau), July 14-15, Leuven, 2011.
- Co-organizer and teacher of the ATHENS Course on Embedded and Convex Optimization for Control (together with S. Boyd and M. Diehl), March 15-19, Leuven, 2010.
- Co-organizer and teacher of the ATHENS Course on Numerical Optimal Control Algorithms and Applications in Renewable Energy Systems (together with H.J. Ferreau and M. Diehl), November 16-20, Leuven, 2009.

## Publications

### Summary

Dr. Houska has over 34 journal papers published or in press, one of which has won a best paper award. He has published 42 peer-reviewed conference papers and 2 book chapters. His publications have been cited over 2100 times in Google Scholar with an h-index of 20 as of September 2018. Links to his publications can be found at [scholar.google.com/citations?user=FetRI5cAAAAJ&hl=en](https://scholar.google.com/citations?user=FetRI5cAAAAJ&hl=en)

### Journal Papers

1. A. Engelmann, Y. Jiang, T. Mühlfordt, B. Houska, T. Faulwasser. Towards distributed OPF using ALADIN. *IEEE Transactions on Power Systems*, 2018. (accepted)
2. B. Houska, B. Chachuat. Global optimization in Hilbert space. *Mathematical Programming, Series A*, 2018. (accepted)
3. X. Feng, B. Houska. Real-time algorithm for self-reflective model predictive control. *Journal of Process Control*, Volume 65, pp. 68–77, 2018.
4. B. Houska, J.C. Li, B. Chachuat. Towards rigorous robust optimal control via generalized high-order moment expansion. *Optimal Control, Applications and Methods*, Volume 39(2), pp. 489–502, 2018.
5. R. Quirynen, S. Gros, B. Houska, M. Diehl. Lifted collocation integrators for direct optimal control in ACADO toolkit. *Mathematical Programming Computation*, Volume 9(4), pp. 527–571, 2017.
6. B. Houska, D. Telen, F. Logist, J. Van Impe. Self-reflective model predictive control. *SIAM Journal on Control and Optimization*, Volume 55(5), pp. 2959–2980, 2017.
7. B. Houska, M.A. Müller. Cost-to-travel functions: a new perspective on optimal and model predictive control. *Systems & Control Letters*, Volume 106, pp. 79–86, 2017.
8. R. Quirynen, B. Houska, M. Diehl. Efficient symmetric Hessian propagation for direct optimal control. *Journal of Process Control*, Volume 50, pp. 19–28, 2017.
9. M.E. Villanueva, R. Quirynen, M. Diehl, B. Chachuat, B. Houska. Robust MPC via minmax differential inequalities. *Automatica*, Volume 77, pp. 311–321, 2017.
10. D. Telen, B. Houska, M. Vallerio, F. Logist, J. Van Impe. A study of integrated experiment design for NMPC applied to the Droop model. *Chemical Engineering Science*, Volume 160, pp. 370–383, 2017.
11. J. Rajyaguru, M.E. Villanueva, B. Houska, B. Chachuat. Chebyshev models arithmetic for factorable functions. *Journal of Global Optimization*, Volume 68(2), pp. 413–438, 2017.
12. B. Houska, A. Mohammadi, M. Diehl. A short note on constrained linear control systems with multiplicative ellipsoidal uncertainty. *IEEE Transactions on Automatic Control*, Volume 61(12), pp. 4106–4111, 2016.

13. B. Houska, J. Frasch, M. Diehl. An augmented Lagrangian based algorithm for distributed non-convex optimization. *SIAM Journal on Optimization*, Volume 26(2), pp. 1101–1127, 2016.
14. D. Telen, B. Houska, F. Logist, J. Van Impe. Multi-purpose economic optimal experiment design applied to model based optimal control. *Computers & Chemical Engineering*, Volume 94, pp. 212–220, 2016.
15. B. Houska, M.E. Villanueva, B. Chachuat. Stable set-valued integration of nonlinear dynamic systems using affine set parameterizations. *SIAM Journal on Numerical Analysis*, Volume 53(5), pp. 2307–2328, 2015.
16. B. Houska. Enforcing asymptotic orbital stability of economic model predictive control. *Automatica*, Volume 57, pp. 45–50, 2015.
17. B. Houska, D. Telen, F. Logist, M. Diehl, J. Van Impe. An economic objective for optimal experiment design of nonlinear dynamic processes. *Automatica*, Volume 51, pp. 98–103, 2015.
18. M.E. Villanueva, B. Houska, B. Chachuat. Unified framework for the propagation of continuous-time enclosures for parametric nonlinear ODEs. *Journal of Global Optimization*, Volume 62(3), pp. 575–613, 2015.
19. D. Telen, M. Vallerio, L. Cabianca, B. Houska, J. Van Impe, F. Logist. Approximate robust optimal control of nonlinear dynamic systems under parametric uncertainty and process noise. *Journal of Process Control*, Volume 33, pp. 140–154, 2015.
20. B. Houska, B. Chachuat. Branch-and-lift algorithm for deterministic global optimization in nonlinear optimal control. *Journal of Optimization Theory and Applications*, Volume 162(1), pp. 208–248, 2014.
21. D. Telen, F. Logist, R. Quirynen, B. Houska, M. Diehl, J. Van Impe. Optimal experiment design for nonlinear dynamic (bio)chemical systems using sequential semidefinite programming. *AiChE Journal*, Volume 60, pp. 1728–1739, 2014.
22. B. Houska, M. Diehl. Nonlinear robust optimization via sequential convex bilevel programming. *Mathematical Programming, Series A*, Volume 142(1), pp. 539–577, 2013.
23. M. Diehl, B. Houska, O. Stein, P. Steuermann. A lifting method for generalized semi-infinite programs based on lower level Wolfe duality. *Computational Optimization and Applications*, Volume 54, pp. 189–210, 2013.
24. D. Telen, B. Houska, F. Logist, E. Van Derlinden, M. Diehl, J. Van Impe. Optimal experiment design under process noise using Riccati differential equations. *Journal of Process Control*, Volume 23, pp. 613–629, 2013.
25. B. Houska, M. Diehl. A quadratically convergent inexact SQP method for optimal control of differential algebraic equations. *Optimal Control, Applications and Methods*, Volume 34, pp. 396–414, 2013.



26. F. Logist, D. Telen, B. Houska, M. Diehl, J. Van Impe. Multi-objective optimal control of dynamic bioprocesses using ACADO Toolkit. *Bioprocess and Biosystems Engineering*, Volume 36, pp. 151–164, 2013.
27. B. Houska, F. Logist, J. Van Impe, M. Diehl. Robust optimization of nonlinear dynamic systems with application to a jacketed tubular reactor. *Journal of Process Control*, Volume 22(6), pp. 1152–1160, 2012.
28. F. Logist, M. Vallerio, B. Houska, M. Diehl, J. Van Impe. Multi-objective optimal control of chemical processes using ACADO Toolkit. *Computers & Chemical Engineering*, Volume 37, pp. 191-199, 2012.
29. B. Houska, H.J. Ferreau, M. Diehl. An auto-generated real-time iteration algorithm for nonlinear MPC in the microsecond range. *Automatica*, Volume 47(10), pp. 2279-2285, 2011.
30. B. Houska, H.J. Ferreau, M. Diehl. ACADO Toolkit – An open source framework for automatic control and dynamic optimization. *Optimal Control, Applications and Methods*, Volume 32, pp. 298-312, 2011.  
*“As of September/October 2017, this paper received enough citations to place it in the top 1% of the academic field of Engineering based on a highly cited threshold for the field and publication year.” (data from Web of Science on February 27, 2018)*
31. F. Logist, B. Houska, M. Diehl, J. Van Impe. Robust multi-objective optimal control of uncertain biochemical processes. *Chemical Engineering Science*, Volume 66(20), pp. 4670-4682, 2011.
32. F. Logist, B. Houska, M. Diehl, J. Van Impe. Fast Pareto set generation for nonlinear optimal control problems with multiple objectives. *Structural and Multidisciplinary Optimization*, Volume 42(4), pp. 591-603, 2010.
33. M. Diehl, B. Houska. Wind power via fast flying kites: a challenge for optimization and control. *at - Automatisierungstechnik*, Volume 57(10), pp. 525-533, 2009.
34. A. Ilzhoefer, B. Houska, M. Diehl. Nonlinear MPC of kites under varying wind conditions for a new class of large scale wind power generators. *International Journal of Robust and Nonlinear Control*, Volume 17(17), pp. 1590–1599, 2007.

## Submitted Journal Papers

1. Y. Jiang, J. Oravec, B. Houska, M. Kvasnica. Parallel Explicit Model Predictive Control. 2018. (submitted)
2. X. Feng, M.E. Villanueva, B. Houska. Backward-forward reachable set splitting for state-constrained differential games. 2018. (submitted)

## Book Chapters

1. B. Houska, M.E. Villanueva. Robust Optimization for MPC. In S. Raković & W.S. Levine (Eds.), *Handbook of MPC*, pp. 423–454, Springer, 2019.
2. B. Houska, F. Logist, M. Diehl, and J. Van Impe. A tutorial on numerical methods for state and parameter estimation in nonlinear dynamic systems. In D. Alberer, H. Hjalmarsson, and L. Del Re (Eds.), *Identification for Automotive Systems*, pp. 67–88, Springer, 2012.

## Theses

1. B. Houska, M. Diehl (sup). Robust optimization of dynamic systems. PhD thesis, KU Leuven, 2011. (ISBN: 978-94-6018-394-2, deposit number: D/2011/7515/96).
2. B. Houska, H.G. Bock (sup). Robustness and stability optimization of open-loop controlled power generating kites. Master’s thesis, University of Heidelberg, 2007.

## Conference Papers

1. X. Feng, J.C. Li, M.E. Villanueva, J. Pannek, B. Houska. Ellipsoidal tube MPC of robots carrying glass plates. In *Proceedings of the 57th IEEE Conference on Decision and Control*, Fontainebleau, USA, December, 2018. (accepted)
2. J. Shi, Y. Zheng, Y. Jiang, M. Zanon, R. Hult, B. Houska. Distributed control algorithm for vehicle coordination at traffic intersections. In *Proceedings of the 17th European Control Conference*, Limassol, Cyprus, June, 2018. (accepted)
3. M.E. Villanueva, B. Chachuat, B. Houska. Robust optimal feedback control for periodic biochemical processes. In *Proceedings of the 10th IFAC International Symposium on Advanced Control of Chemical Processes*, Shenyang, China, July, pp. 750–755, 2018.
4. X. Feng, Y. Jiang, M.E. Villanueva, B. Houska. Parallelizable real-time algorithm for integrated experiment design MPC. In *Proceedings of the 10th IFAC International Symposium on Advanced Control of Chemical Processes*, Shenyang, China, pp. 512–517, July, 2018.
5. H. Hu, X. Feng, R. Quirynen, M.E. Villanueva, B. Houska. Real-time tube MPC applied to a 10-state quadrotor model. In *Proceedings of the American Control Conference*, Milwaukee, USA, pp. 3135–3140, June, 2018.
6. A. Engelmann, T. Mühlpfordt, Y. Jiang, B. Houska, T. Faulwasser. Distributed stochastic AC optimal power flow based on polynomial chaos expansion. In *Proceedings of the American Control Conference*, Milwaukee, USA, pp. 6188–6193, June, 2018.
7. X. Feng, M.E. Villanueva, B. Chachuat, B. Houska. Branch-and-lift algorithm for obstacle avoidance control. In *Proceedings of the 56th IEEE Conference on Decision and Control*, Melbourne, Australia, pp. 745–750, December, 2017.
8. A. Engelmann, T. Mühlpfordt, Y. Jiang, B. Houska, T. Faulwasser. Distributed AC optimal power flow using ALADIN. In *Proceedings of the 20th IFAC World Congress*, Toulouse, France, pp. 5701–5706, July, 2017.

9. Y. Jiang, P. Nimmegheers, D. Telen, J. Van Impe, B. Houska. A distributed optimization algorithm for stochastic optimal control. In *Proceedings of the 20th IFAC World Congress*, Toulouse, France, pp. 11755–11760, July, 2017.
10. Y. Jiang, M. Zanon, R. Hult, B. Houska. Distributed algorithm for optimal vehicle coordination at traffic intersections. In *Proceedings of the 20th IFAC World Congress*, Toulouse, France, pp. 12082–12087, July, 2017.
11. J. Oravec, Y. Jiang, B. Houska, M. Kvasnica. Parallel explicit MPC for hardware with limited memory. In *Proceedings of the 20th IFAC World Congress*, Toulouse, France, pp. 3356–3361, July, 2017.
12. M.E. Villanueva, J.C. Li, X. Feng, B. Chachuat, B. Houska. A computational procedure for ellipsoidal robust forward invariant tubes in nonlinear MPC. In *Proceedings of the 20th IFAC World Congress*, Toulouse, France, pp. 7436–7441, July, 2017.
13. R. Quirynen, B. Houska, M. Diehl. Symmetric Hessian propagation for lifted collocation integrators in direct optimal control. In *Proceedings of the 2016 American Control Conference*, Boston, USA, pp. 1117–1123, 2016.
14. D. Kouzoupis, R. Quirynen, B. Houska, M. Diehl. A block based ALADIN scheme for highly parallelizable direct optimal control. In *Proceedings of the 2016 American Control Conference*, Boston, USA, pp. 1124–1129, 2016.
15. M.E. Villanueva, J. Rajyaguru, B. Houska, B. Chachuat. Ellipsoidal arithmetic for multivariate systems. *Computer Aided Chemical Engineering*, Volume 37, pp. 767–772, 2015.
16. B. Chachuat, B. Houska, R. Paulen, N. Peric, J. Rajyaguru, M.E. Villanueva. Set theoretic approaches in analysis, estimation and control of nonlinear systems. In *Proceedings of the 9th IFAC Symposium on Advanced Control of Chemical Processes (ADCHEM)*, Whistler, Canada, 2015; *IFAC-PapersOnLine*, Volume 48(8), pp. 981–995, 2015.  
(\*Plenary Paper\*)
17. D. Telen, M. Vallerio, L. Cbianca, B. Houska, J. Van Impe, F. Logist. Approximate robust optimal control of nonlinear dynamic systems under process noise. In *Proceedings of the European Control Conference 2015*, Linz, Austria, July 15-17, pp. 1575-1580, 2015.
18. J. Rayjaguru, M.E. Villanueva, B. Houska, B. Chachuat. Continuous-time enclosures for uncertain implicit ordinary differential equations. In *Proceedings of the 9th International Symposium on Advanced Control of Chemical Processes (ADCHEM)*, Whistler, British Columbia, Canada, 2015; *IFAC-PapersOnLine*, Volume 48(8), pp. 94–99, 2015.
19. M.E. Villanueva, B. Houska, B. Chachuat. On the stability of set-valued integration for parametric nonlinear ODEs. *Computer Aided Chemical Engineering*, Volume 33, pp. 595–600, 2014.
20. R. Quirynen, B. Houska, M. Vallerio, D. Telen, F. Logist, J. Van Impe, M. Diehl. Symmetric algorithmic differentiation based exact Hessian SQP method and software for economic MPC. In *Proceedings of the 53rd IEEE Conference on Decision and Control*, Los Angeles, CA, USA, pp. 2752–2757, 2014.

21. B. Houska, M.E. Villanueva, and B. Chachuat. A validated integration algorithm for nonlinear ODEs using Taylor models and ellipsoidal calculus. In *Proceedings of the 52nd IEEE Conference on Decision and Control*, Florence, Italy, pp. 484–489, 2013.
22. D. Telen, B. Houska, F. Logist, M. Diehl, J. Van Impe. Guaranteed robust optimal experiment design for nonlinear dynamic systems. In *Proceedings of the European Control Conference*, Zürich, Switzerland, pp. 2939–2944, 2013.
23. M.E. Villanueva, R. Paulen, B. Houska, and B. Chachuat. Enclosing the reachable set of parametric ODEs using Taylor models and ellipsoidal calculus. *Computer Aided Chemical Engineering*, Volume 32, pp. 979–984, 2013.
24. B. Houska and M. Diehl. Optimization of stable periodic attractors for nonlinear dynamic systems. In *Proceedings of the 7th IFAC Symposium on Robust Control Design*, Aalborg, Denmark, pp. 9–14, June 20–22, 2012.
25. J. Sternberg, S. Gros, B. Houska, M. Diehl. Approximate robust optimal control of periodic systems with invariants and high-index differential algebraic systems. In *Proceedings of the 7th IFAC Symposium on Robust Control Design*, Aalborg, Denmark, pp. 690–695, June 20–22, 2012.
26. J. Sternberg, B. Houska, F. Logist, D. Telen, J. Van Impe, M. Diehl. A toolkit for efficient computation of sensitivities in approximate robust optimal control problems. In *Proceedings of the 7th IFAC Symposium on Robust Control Design*, Aalborg, Denmark, pp. 183–188 June 20–22, 2012.
27. J. Sternberg, B. Houska, and M. Diehl. A structure exploiting algorithm for approximate robust optimal control with application to power generating kites. In *Proceedings of the 2012 American Control Conference*, Montreal, Canada, pp. 2250–2255, June 27–29, 2012.
28. M. Vukov, W. Van Loock, B. Houska, H.J. Ferreau, J.Swevers, and M. Diehl. Experimental validation of nonlinear MPC on an overhead crane using automatic code generation. In *Proceedings of the 2012 American Control Conference*, Montreal, Canada, pp. 6264–6269, June 27–29, 2012.
29. B. Houska and M. Diehl. Robust design of linear control laws for constrained nonlinear dynamic systems. In *Proceedings of the 18th IFAC World Congress*, Milan, Italy, pp. 13438–13443, September 2011.
30. H.J. Ferreau, B. Houska, K. Geebelen, and M. Diehl. Real-time control of a kite-model using an auto-generated nonlinear MPC algorithm. In *Proceedings of the IFAC World Congress*, Milano, Italy, pp. 2488–2493, 2011.
31. F. Logist, B. Houska, M. Diehl, and J. Van Impe. Robust optimal control of a biochemical reactor with multiple objectives. *Computer Aided Chemical Engineering*, Volume 29, pp. 1460–1464, 2011.
32. B. Houska and M. Diehl. Nonlinear robust optimization of uncertainty affine dynamic systems under the L-infinity norm. In *Proceedings of the IEEE Multi - Conference on Systems and Control*, Yokohama, Japan, pp. 1091–1096, 2010.

33. B. Houska and M. Diehl. Robustness and stability optimization of power generating kite systems in a periodic pumping mode. In *Proceedings of the IEEE Multi - Conference on Systems and Control*, Yokohama, Japan, pp. 2172–2177, 2010.
34. F. Logist, B. Houska, M. Diehl, and J. Van Impe. A toolkit for multi-objective optimal control in bioprocess engineering. In *Proceedings of the 11th IFAC Symposium on Computer Applications in Biotechnology*, Leuven, Belgium, pp. 269–274, 2010.
35. J. Andersson, B. Houska, M. Diehl. Towards a computer algebra system with automatic differentiation for use with object-oriented modelling languages, *3rd International Workshop on Equation-Based Object-Oriented Modeling Languages and Tools*, pp. 99–105, Oslo, Norway, October 3, 2010.
36. M. Kopacka, B. Saerens, H.J. Ferreau, B. Houska, M. Diehl, B. Rohal-Ilkiv. Design of a MPC controller running on dSpace hardware using ACADO toolkit. In *Proceedings of the International Scientific–Technical Conference on Process Control*, Kouty nad Desnou, Czech Republic, 7–10 June, 2010.
37. F. Logist, B. Houska, M. Diehl, and J. Van Impe. A toolkit for efficiently generating Pareto sets in (bio)chemical multi-objective optimal control problems. In *Proceedings of the 20th European Symposium on Computer Aided Process Engineering (ESCAPE-20)*, Ischia, Italy, pp. 481–486, 2010.
38. B. Houska and M. Diehl. Robust nonlinear optimal control of dynamic systems with affine uncertainties. In *Proceedings of the 48th Conference on Decision and Control*, Shanghai, China, pp. 2274–2279, 2009.
39. B. Houska, F. Logist, J. Van Impe, and M. Diehl. Approximate robust optimization of time-periodic stationary states with application to biochemical processes. In *Proceedings of the 48th Conference on Decision and Control*, Shanghai, China, pp. 6280–6285, 2009.
40. H.J. Ferreau, B. Houska, T. Kraus, and M. Diehl. Numerical methods for embedded optimisation and their implementation with the ACADO toolkit. In R. Tadeusiewicz, A. Ligeza, W. Mitkowski, M. Szymkat (Eds.), *Proceedings of the 7th Conference – Computer Methods and Systems (CMS’09)*, Krakow, Poland, pp. 13–29, 2009.
41. B. Houska and M. Diehl. Optimal control for power generating kites. In *Proceedings of the 9th European Control Conference*, Kos, Greece, pp. 3560–3567, 2007.
42. B. Houska and M. Diehl. Optimal control of towing kites. In *Proceedings of the 45th IEEE Conference on Decision and Control*, San Diego, USA, pp. 2693–2697, 2006.

## Software

1. Dr. Houska is one of the leading developers of the open-source optimal control package ACADO Toolkit. The software can be downloaded free of charge at [www.acadotoolkit.org](http://www.acadotoolkit.org).

## Miscellaneous

1. B. Houska, D. Kouzoupis, Y. Jiang, M. Diehl. Convex optimization with ALADIN. *Technical report*, 2017.  
(working draft, to be submitted)  
PDF available at <http://www.optimization-online.org/DB.FILE/2017/01/5827.pdf>
2. Y. Zha, M.E. Villanueva, B. Houska. Interval superposition arithmetic. *Technical report*, 2016.  
(working draft, to be submitted)  
PDF available at <https://arxiv.org/abs/1610.05862>
3. D. Ariens, B. Houska, H.J. Ferreau, F. Logist. ACADO for Matlab user's manual. *Software manual*, 2010.  
PDF available at [www.acadotoolkit.org](http://www.acadotoolkit.org)
4. B. Houska, H.J. Ferreau, M. Vukov, R. Quirynen. ACADO Toolkit user's manual. *Software manual*, 2009.  
PDF available at [www.acadotoolkit.org](http://www.acadotoolkit.org)

*Last updated on October 8, 2018.*