

### Academic Experience

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| 06/2017 – present | <i>Independent Researcher</i> , London, UK.  |
| 10/2016 – 05/2017 | <i>Visiting Research Scholar</i> , <b>The University of Porto</b> , Porto, Portugal.               |
| 06/2016 – 10/2016 | <i>Visiting Research Scholar</i> , <b>Texas A&amp;M University</b> , College Station, USA.         |
| 05/2015 – 06/2016 | <i>Visiting Research Scholar</i> , <b>The University of Texas</b> , Austin, USA.                   |
| 10/2014 – 04/2015 | <i>Independent Researcher</i> , London, UK.  |
| 07/2012 – 09/2014 | <i>Member of Senior Common Room of the St Edmund Hall</i> , <b>Oxford University</b> , Oxford, UK. |
| 04/2014 – 08/2014 | <i>Visiting Research Scholar</i> , <b>Supélec</b> , Gif-sur-Yvette, France.                        |
| 02/2012 – 07/2012 | <i>Visiting Assistant Professor</i> , <b>The University of Maryland</b> , College Park, USA.       |
| 07/2009 – 10/2011 | <i>Visiting Academic Fellow</i> , <b>Oxford University</b> , Oxford, UK.                           |
| 04/2009 – 12/2011 | <i>Scientific Associate</i> , <b>The University of Magdeburg</b> , Magdeburg, Germany.             |
| 12/2008 – 12/2009 | <i>Honorary Research Associate</i> , <b>Imperial College London</b> , London, UK.                  |
| 11/2006 – 11/2008 | <i>Postdoctoral Research Fellow</i> , <b>ETH Zürich</b> , Zürich, Switzerland.                     |
| 11/2001 – 11/2006 | <i>Postdoctoral Research Associate</i> , <b>Imperial College London</b> , London, UK.              |

### Education

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| 2001 – 2005   | <b>Imperial College London</b> , London, UK   |
| Degree        | <i>Ph.D. in Control Theory</i> .  |
| Dissertation  | “Robust Control of Constrained Discrete Time Systems: Characterization and Implementation”. |
| Award         | The Eryl Cadwaladr Davies Prize 2005.   |
| 2000 – 2001   | <b>Imperial College London</b> , London, UK   |
| Degree        | <i>M.Sc. in Control Engineering, and DIC</i> (Diploma of Imperial College).                 |
| Thesis        | “Medical Application of Feedback Control”.  |
| 1993 – 1999   | <b>The University of Kragujevac, Technical Faculty of Čačak</b> , Čačak, Serbia             |
| Degree        | <i>B.Eng. in Mechatronics</i> .   |
| Final Project | “Temperature Control of an Industrial Oven”.  |
| Award         | The Dr. Milivoje Urošević Fund Award 1999.  |

### Impact Indicators (Google Scholar Statistics On February 17, 2018)

|                   |                    |      |                     |     |                     |     |
|-------------------|--------------------|------|---------------------|-----|---------------------|-----|
| Publications      | Total              | 97   | H-Index             | 28  | i10-Index           | 54  |
| Citations         | Total              | 3808 | Per year            | 238 | Per publication     | 39  |
| Average citations | Top 5 publications | 357  | Top 10 publications | 234 | Top 28 publications | 115 |

### Synergistic Activities (Selected)

- Editor, with William S. Levine, of the handbook of model predictive control, which is to be published by Birkhäuser
- Organizer, with Ilya V. Kolmanovsky and James B. Rawlings, of the first American summer school on model predictive control.
- Frequent Organizer of conference sessions and workshops at IEEE, IFAC and SIAM conferences.
- Frequent reviewer for a number of IEEE, IFAC and SIAM journals and conferences.
- International program committee member, the IFAC conference on nonlinear model predictive control 2012. (Noordwijkerhout, The Netherlands, August 2012.)

### Honors and Awards

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| 2015 and 2007 | The IFAC journal <i>Automatica</i> 2014 and 2006<br><i>Outstanding reviewer for Automatica</i> .   |
| 2005          | The Eryl Cadwaladr Davies Prize 2005<br><i>The best Ph.D. thesis in the EEE Department of Imperial College London</i> .  |
| 1999          | The Dr. Milivoje Urošević Fund Award 1999<br><i>The best student of the generation at the Technical Faculty of Čačak</i> .                                     |
| 1999          | The Republic Centre for Talents from Science of Serbia and Montenegro Diploma and Gold Medal<br><i>For accomplishments in natural and technical sciences</i> . |

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## Current Research Focus Areas

### Controls, Dynamics, Optimization and Systems

Conventional, robust and stochastic optimal and model predictive control; Optimization for analysis and synthesis of dynamic and static systems, and decision making, under constraints and uncertainty.

### Smart Autonomous and Cyber-Physical Systems

Agility and composability; fault tolerance and reconfigurability; intelligent functionality; multi-system formations with collaborative and coordinated operability; reliability and safety; security and resilience.

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## Main Technical Expertise

### Control Synthesis

Conventional, robust and stochastic optimal and model predictive control; dynamic programming.

### Optimization-based Analysis and Synthesis

Design of specification, resource and performance optimal systems under constraints and uncertainty.

### Set-Valued Analysis and Synthesis

Reachability and estimation; safety, reliability, security and resilience; set invariance and stability.

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## Distinguished Contributions

### Model Predictive Control

Contributions Robust model predictive control.  
Stochastic model predictive control.  
Tube model predictive control.

Publications [5–7, 14–16, 18, 26, 30, 35, 36, 43, 62, 77, 82, 87, 94].

### Set Invariance

Contributions Minimal invariant sets.  
Set invariance under output feedback.  
Invariant approximations of minimal and maximal invariant sets.

Publications [21, 24, 27, 28, 34, 69, 71].

### Optimization-based and Set-Valued Analysis and Synthesis

Contributions Minkowski-Lyapunov equation.  
Real-time computations of invariant sets and Lyapunov functions.  
Exact and approximate, backward and forward, reachability analysis under constraints and uncertainty.

Publications [9–11, 17, 24, 25, 28, 31, 34, 66, 68–70, 72, 76, 80].

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## Plenary Talks

### Plenary Talk

August, 2012 *“Invention of Prediction Structures and Categorization of Robust MPC Syntheses”*  
The 4<sup>th</sup> IFAC Conference on Nonlinear Model Predictive Control 2012, NMPC'12.

### Semi-Plenary Talk

September, 2008 *“Set-Theoretic Methods in Model Predictive Control”*  
The 3<sup>rd</sup> IFAC Conference on Nonlinear Model Predictive Control 2008, NMPC'08.

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## Invited Lecture Courses

10/2015 *“Model Predictive Control Synthesis”*. The University of Texas at Austin.  
06/2011 & 07/2012 *“Tube Model Predictive Control”*. The University of Stuttgart.  
03/2012 – 04/2012 *“Set-Valued Dynamical Systems”*. The University of Maryland at College Park.  
03/2008 *“An Introduction to Set Theoretic Methods in Control”*. The University of Seville.

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## Invited Talks and Conference Presentations

Delivered at least 40 invited seminars at universities including, *inter alia*, Imperial College London, Cambridge University, Oxford University, ETH Zürich, KU Leuven, UC Louvain-la-Neuve, Supélec, TU Eindhoven, UT at Austin, UM at Ann Arbor, UMD at College Park, UC at Santa Barbara, UW at Seattle, Texas A&M University and Tel Aviv University.

Delivered at least 50 presentations at international conferences.

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## Memberships

2011 – Present Member of the IFAC Technical Committee on Nonlinear Control Systems.

2012 – 2014 and

2009 – 2011

Member of the Senior Common Room at St Edmund Hall of Oxford University.

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## Publications Breakdown

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| 1 Ph.D. thesis  | 1 Edited book       | 1 Book review        |
| 4 Book chapters | 31 Journal articles | 60 Conference papers |

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## Ph.D. Thesis (1 out of 1)

- [1] Saša V. Raković. *Robust Control of Constrained Discrete Time Systems: Characterization and Implementation*. Ph.D. thesis, Imperial College London, London, United Kingdom, September 2005.

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## Edited Books (1 out of 1)

- [2] S. V. Raković and W. S. Levine. *Handbook of Model Predictive Control*. Birkhäuser. In Press.

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## Book Reviews (1 out of 1)

- [3] S. V. Raković. *Model Predictive Control: Classical, Robust and Stochastic* by Basil Kouvaritakis and Mark Cannon. *IEEE Control Systems Magazine*, 36(6): 102–105, 2016.

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## Book Chapters (4 out of 4)

- [4] R. Goebel and S. V. Raković. Set-valued and Lyapunov Methods for MPC. Invited Paper in *Handbook of Model Predictive Control*. Editors-in-Chief: S. V. Raković and W. S. Levine, Birkhäuser, 2018. In Press.
- [5] S. V. Raković. Robust Model Predictive Control. Invited Paper in *Encyclopedia of Systems and Control: 1225–1233*, 2015, Editors-in-Chief: J. Baillieul and T. Samad, Springer-Reference, 2015. (Also Available Online.)
- [6] S. V. Raković. Set Theoretic Methods in Model Predictive Control. Invited Paper in *Assessment and Future Directions of Nonlinear Model Predictive Control*, Lecture Notes in Control and Information Sciences, 384/2009 : 41–54, 2009, Editors: L. Magni, D. Raimondo and F. Allgöwer, Springer-Verlag, Berlin – Heidelberg, 2009.
- [7] S. V. Raković and D. Q. Mayne. Robust Model Predictive Control for Obstacle Avoidance: Discrete Time Case. *Assessment and Future Directions of Nonlinear Model Predictive Control*, Lecture Notes in Control and Information Sciences, 358/2007 : 617–627, 2007, Editors: R. Findeisen, L. B. Biegler and F. Allgöwer, Springer-Verlag, Berlin, 2007.

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## Journal Articles (31 out of 31)

- [8] U. Eren, A. Prach, B. B. Kocer, S. V. Raković, E. Kayacan and B. Açikmeşe. Model Predictive Control in Aerospace Systems: Current State and Opportunities. *Journal of Guidance, Control, and Dynamics*, 40(7): 1541–1566, 2017.
- [9] S. V. Raković. The Minkowski–Lyapunov Equation. *Automatica*, 75(1): 32–36, 2017.
- [10] S. V. Raković and M. Lazar. The Minkowski–Lyapunov Equation for Linear Dynamics: Theoretical Foundations. *Automatica*, 50(8): 2015–2024, 2014.
- [11] S. V. Raković and R. Gielen. Positively Invariant Families of Sets for Interconnected and Time–Delay Discrete–Time Systems. *SIAM Journal on Control and Optimization*, 52(4): 2261–2283, 2014.
- [12] V. Janković, B. Marinković and S. V. Raković. Motzkin’s Theorem of the Alternative : A Continuous Time Generalization. *Optimization Letters*, 7(8): 1659–1668, 2013.
- [13] R. Gielen, M. Lazar and S. V. Raković. Necessary and Sufficient Razumikhin–like Conditions for Stability of Delay Difference Equations. *IEEE Transactions on Automatic Control*, 58(10): 2637–2642, 2013.
- [14] S. V. Raković, B. Kouvaritakis and M. Cannon. Equi–Normalization and Exact Scaling Dynamics in Homothetic Tube Model Predictive Control. *System & Control Letters*, 62(2) : 209–217, 2013.
- [15] S. V. Raković, B. Kouvaritakis, M. Cannon and C. Panos. Fully Parameterized Tube Model Predictive Control. *International Journal of Robust and Nonlinear Control* : Special Issue to Commemorate the Work of Professor David W. Clarke, 22(12) : 1330–1361, 2012.
- [16] S. V. Raković, B. Kouvaritakis, M. Cannon, C. Panos and R. Findeisen. Parameterized Tube Model Predictive Control. *IEEE Transactions on Automatic Control*, 57(11): 2746–2761, 2012.
- [17] S. V. Raković and M. Lazar. Minkowski Terminal Cost Functions for MPC. *Automatica*, 48(10) : 2721–2725, 2012.
- [18] S. V. Raković, B. Kouvaritakis, R. Findeisen and M. Cannon. Homothetic Tube Model Predictive Control. *Automatica*, 48(8) : 1631–1638, 2012.
- [19] M. Cannon, Q. Cheng, B. Kouvaritakis and S. V. Raković. Stochastic Tube MPC With State Estimation. *Automatica*, 48(3) : 536–541, 2012.
- [20] M. Cannon, J. Buerger, B. Kouvaritakis, and S. V. Raković. Robust Tubes in Nonlinear Model Predictive Control. *IEEE Transactions on Automatic Control*, 56(8) : 1942–1948, 2011.

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## Journal Articles (31 out of 31 – Continued)

- [21] Zvi Artstein and Saša V. Raković. Set Invariance Under Output Feedback: A Set–Dynamics Approach. *International Journal of Systems Science*, 42(4) : 539–555, 2011.
- [22] M. Cannon, B. Kouvaritakis, S. V. Raković and Q. Cheng. Stochastic Tubes in Model Predictive Control With Probabilistic Constraints. *IEEE Transactions on Automatic Control*, 56(1) : 194–200, 2011.
- [23] B. Kouvaritakis, M. Cannon, S. V. Raković and Q. Cheng. Explicit Use of Probabilistic Distributions in Linear Predictive Control. *Automatica*, 46(10) : 1719–1724, 2010.
- [24] Saša V. Raković and Miroslav Barić. Parameterized Robust Control Invariant Sets for Linear Systems: Theoretical Advances and Computational Remarks. *IEEE Transactions on Automatic Control*, 55(7) : 1599–1614, 2010.
- [25] Saša V. Raković and Miroslav Barić. Local Control Lyapunov Functions for Constrained Linear Discrete Time Systems: The Minkowski Algebra Approach. *IEEE Transactions on Automatic Control*, 54(11) : 2686–2692, 2009.
- [26] D. Q. Mayne, S. V. Raković, R. Findeisen and F. Allgöwer. Robust Output Feedback Model Predictive Control of Constrained Linear Systems: Time Varying Case. *Automatica*, 45(9) : 2082–2087, 2009.
- [27] Zvi Artstein and Saša V. Raković. Feedback and Invariance under Uncertainty via Set–Iterates. *Automatica*, 44(2) : 520–525, 2008.
- [28] S. V. Raković, E. C. Kerrigan, D. Q. Mayne and K. I. Kouramas. Optimized Robust Control Invariance for Linear Discrete–Time Systems: Theoretical Foundations. *Automatica*, 43(5) : 831–841, 2007.
- [29] C. N. Jones, P. Grieder, and S. V. Raković. A Logarithmic–Time Solution to the Point Location Problem for Parametric Linear Programming. *Automatica*, 42(12) : 2215–2218, 2006.
- [30] D. Q. Mayne, S. V. Raković, R. Findeisen and F. Allgöwer. Robust Output Feedback Model Predictive Control of Constrained Linear Systems. *Automatica*, 42(7) : 1217–1222, 2006.
- [31] S. V. Raković, E. C. Kerrigan, D. Q. Mayne and J. Lygeros. Reachability Analysis of Discrete–Time Systems with Disturbances. *IEEE Transactions on Automatic Control*, 51(4) : 546–562, 2006.
- [32] D. Q. Mayne, S. V. Raković, R. B. Vinter and E. C. Kerrigan. Characterization of the Solution to a Constrained  $H_\infty$  Optimal Control Problem. *Automatica*, 42(3) : 371–382, 2006.
- [33] D. Q. Mayne and S. V. Raković. Correction to Model Predictive Control of Constrained Piecewise Affine Discrete–Time Systems, *International Journal of Robust and Nonlinear Control*, volume 13, issue 3–4, pages 261–279. *International Journal of Robust and Nonlinear Control*, 15(6) : 291, 2005.
- [34] S. V. Raković, E. C. Kerrigan, K. I. Kouramas and D. Q. Mayne. Invariant Approximations of the Minimal Robustly Positively Invariant Set. *IEEE Transactions on Automatic Control*, 50(3) : 406–410, 2005.
- [35] D. Q. Mayne, M. M. Seron and S. V. Raković. Robust Model Predictive Control of Constrained Linear Systems with Bounded Disturbances. *Automatica*, 41(2) : 219–224, 2005.
- [36] W. Langson, I. Chrysoschoos, S. V. Raković, and D. Q. Mayne. Robust Model Predictive Control Using Tubes. *Automatica*, 40(1) : 125–133, 2004.
- [37] D. Q. Mayne and S. Raković. Model Predictive Control of Constrained Piecewise Affine Discrete–Time Systems. *International Journal of Robust and Nonlinear Control*, 13(3–4) : 261–279, 2003.
- [38] D. Q. Mayne and S. Raković. Optimal Control of Constrained Piecewise Affine Discrete–Time Systems. *Journal of Computational Optimization and Applications*, 25(1–3) : 167–191, 2003.

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## Peer–Reviewed Conference Contributions (60 out of 60)

- [39] S. V. Raković, F. A. C. C. Fontes and I. V. Kolmanovsky. Reachability and Invariance for Linear Sampled–data Systems. In *Proceedings of the 20th IFAC World Congress IFAC 2017*, Toulouse, France, July 2017.
- [40] F. A. C. C. Fontes, S. V. Raković and I. V. Kolmanovsky. Rigid Tube MPC for Linear Sampled–data Systems. In *Proceedings of the 20th IFAC World Congress IFAC 2017*, Toulouse, France, July 2017.
- [41] S. V. Raković, W. S. Levine and B. Açıkmeşe. Continuously Generalized Model Predictive Control. In *Proceedings of the 55th IEEE Conference on Decision and Control CDC 2016*, Las Vegas, NV, USA, December 2016.
- [42] D. Dueri, S. V. Raković, and B. Açıkmeşe. Consistently Improving Approximations for Constrained Controllability and Reachability. In *Proceedings of the 15th European Control Conference ECC 2016*, Aalborg, Denmark, June & July, 2016.
- [43] S. V. Raković, W. S. Levine and B. Açıkmeşe. Elastic Tube Model Predictive Control. In *Proceedings of the 2016 American Control Conference ACC 2016*, Boston, MA, USA, July 2016.
- [44] S. V. Raković, W. S. Levine and B. Açıkmeşe. Discretely Generalized Model Predictive Control. In *Proceedings of the 2016 American Control Conference ACC 2016*, Boston, MA, USA, July 2016.
- [45] S. V. Raković and W. S. Levine. Model Predictive Control with Generalized Terminal Conditions. Abstract In *Proceedings of the 13th Viennese Workshop on Optimal Control and Dynamic Games*, Vienna, Austria, May 2015.

- [46] S. V. Raković and W. S. Levine. Separable Prediction Structures in Model Predictive Control Under Uncertainty. Abstract In *Proceedings of the SIAM Conference on Control & Its Applications CT2013*, San Diego, CA, USA, July 2013.
- [47] S. V. Raković and Q. Cheng. Homothetic Tube MPC for Constrained Linear Difference Inclusions. In *Proceedings of the 25th Chinese Control and Decision Conference CCDC 2013*, Guiyang, China, May 2013.
- [48] S. V. Raković, I. Matei and J. S. Baras. Reachability Analysis for Linear Discrete Time Set-Dynamics Driven by Random Convex Compact Sets. In *Proceedings of the 51st IEEE Conference on Decision and Control CDC 2012*, Maui, HI, USA, December 2012.
- [49] S. V. Raković, D. M. Carpinero, M. Cannon and B. Kouvaritakis. Offline Tube Design for Efficient Implementation of Parameterized Tube Model Predictive Control. In *Proceedings of the 51st IEEE Conference on Decision and Control CDC 2012*, Maui, HI, USA, December 2012.
- [50] S. V. Raković. Invention of Prediction Structures and Categorization of Robust MPC Syntheses. In *Proceedings of the IFAC Conference on Nonlinear Model Predictive Control NMPC 2012*, Noordwijkerhout, the Netherlands, August 2012.
- [51] R. Gielen, S. V. Raković and M. Lazar. Further Results on the Construction of Invariant Families of Sets for Linear Systems with Delay. In *Proceedings of the 10th IFAC Workshop on Time Delay Systems TDS 2012*, Boston, USA, June 2012.
- [52] S. V. Raković, R. Gielen and M. Lazar. Construction of Invariant Families of Sets for Linear Systems with Delay. In *Proceedings of the 2012 American Control Conference ACC 2012*, Montréal, Canada, June 2012.
- [53] S. V. Raković, B. Kouvaritakis, M. Cannon, C. Panos and R. Findeisen. Fully Parameterized Tube Model Predictive Control. In *Proceedings of the 18th IFAC World Congress IFAC 2011*, Milan, Italy, September 2011.
- [54] S. V. Raković, B. Kern and R. Findeisen. Practical Robust Positive Invariance for Large-Scale Discrete Time Systems. In *Proceedings of the 18th IFAC World Congress IFAC 2011*, Milan, Italy, September 2011.
- [55] S. Borchers, S. V. Raković and R. Findeisen. Set Membership Parameter Estimation and Design of Experiments Using Homothety. In *Proceedings of the 18th IFAC World Congress IFAC 2011*, Milan, Italy, September 2011.
- [56] S. V. Raković, B. Kern and R. Findeisen. Practical Set Invariance for Decentralized Discrete Time Systems. In *Proceedings of the 49th IEEE Conference on Decision and Control CDC 2010*, Atlanta, GA, USA, December 2010.
- [57] B. Kouvaritakis, M. Cannon, S. V. Raković and Q. Cheng. Explicit Use of Probabilistic Distributions in Linear Predictive Control. In *Proceedings of the UKACC International Conference on Control UKACC 2010*, Coventry, UK, September 2010.
- [58] M. Cannon, J. Buerger, B. Kouvaritakis, and S. V. Raković. Robust Tubes in Nonlinear Model Predictive Control. In *Proceedings of the 8th IFAC Symposium on Nonlinear Control Systems NOLCOS 2010*, Bologna, Italy, September 2010.
- [59] B. Kouvaritakis, M. Cannon, S. V. Raković and Q. Cheng. Stochastic Tube MPC With State Estimation. In *Proceedings of the 19th International Symposium on Mathematical Theory of Networks and Systems MTNS 2010*, Budapest, Hungary, July 2010.
- [60] S. V. Raković, B. Kouvaritakis, R. Findeisen and M. Cannon. Simple Homothetic Tube Model Predictive Control. In *Proceedings of the 19th International Symposium on Mathematical Theory of Networks and Systems MTNS 2010*, Budapest, Hungary, July 2010.
- [61] B. Kouvaritakis, M. Cannon, S. V. Raković and Q. Cheng. Stochastic Tubes in Model Predictive Control With Probabilistic Constraints. In *Proceedings of the 2010 American Control Conference ACC2010*, Baltimore, Maryland, USA, July 2010.
- [62] S. V. Raković. Tube Model Predictive Control. Contribution to Tutorial Session "Output Feedback Control Under Set-membership Uncertainty : Theory, Computation and Applications ", In *Proceedings of the 48th IEEE Conference on Decision and Control CDC 2009*, Shanghai, China, December 2009.
- [63] F. Blanchini and S. V. Raković. Controllability and Reachability under Set-Valued Constraints and Disturbances : Directions and Challenges. Contribution to Tutorial Session "Output Feedback Control Under Set-membership Uncertainty : Theory, Computation and Applications ", In *Proceedings of the 48th IEEE Conference on Decision and Control CDC 2009*, Shanghai, China, December 2009.
- [64] S. V. Raković, M. Kearney and P. Ross McAree. Robust Control Correction Synthesis: A Set-Theoretic Approach. In *Proceedings of the 7th International Conference on Control and Automation ICCA 2009*, Christchurch, New Zealand, December, 2009.
- [65] M. Kearney, S. V. Raković and P. Ross McAree. Control Correction Synthesis: A Set-Theoretic Approach. In *Proceedings of the 10th European Control Conference ECC 2009*, Budapest, Hungary, August 2009.
- [66] S. V. Raković, M. Barić and M. Morari. Max-Min Control Problems for Constrained Discrete Time Systems. In *Proceedings of the 47th IEEE Conference on Decision and Control CDC 2008*, Cancun, Mexico, December 2008.
- [67] S. V. Raković. Set Theoretic Methods in Model Predictive Control. In *Proceedings of the International Workshop on Assessment and Future Directions of Nonlinear Model Predictive Control – NMPC'08*, Pavia, Italy, September 2008.
- [68] M. Barić, S. V. Raković, T. Besselmann and M. Morari. Max-Min Optimal Control of Constrained Discrete Time Systems. In *Proceedings of the 17th IFAC World Congress IFAC 2008*, Seoul, Korea, July 2008.

- [69] S. V. Raković and M. Fiacchini. Invariant Approximations of the Maximal Invariant Set of “Encircling the Square”. In *Proceedings of the 17th IFAC World Congress IFAC 2008*, Seoul, Korea, July 2008.
- [70] S. V. Raković and M. Fiacchini. Approximate Reachability Analysis for Linear Discrete Time Systems Using Homothety and Invariance. In *Proceedings of the 17th IFAC World Congress IFAC 2008*, Seoul, Korea, July 2008. Invited Session.
- [71] S. V. Raković. Minkowski Algebra and Banach Contraction Principle in Set Invariance Theory for Linear Discrete Time Systems. In *Proceedings of the 46th IEEE Conference on Decision and Control 2007*, New Orleans, LA, USA, December 2007.
- [72] S. V. Raković and K. I. Kouramas. Invariant Approximations of the Minimal Robust Positively Invariant Set via Finite Time Aumann Integrals. In *Proceedings of the 46th IEEE Conference on Decision and Control 2007*, New Orleans, LA, USA, December 2007.
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- [74] D. Q. Mayne, S. V. Raković and E. C. Kerrigan. Optimal Control and Piecewise Parametric Programming. In *Proceedings of the 9th European Control Conference*, Kos, Greece, July 2007.
- [75] J. Spjøtvold, E. Kerrigan, S. V. Raković, D. Mayne and T. A. Johansen. Inf-Sup Control of Discontinuous Piecewise Affine Systems. In *Proceedings of the 9th European Control Conference*, Kos, Greece, July 2007.
- [76] S. V. Raković and K. I. Kouramas. The Minimal Robust Positively Invariant Set and Its Invariant Approximations via Finite Time Aumann Integrals. In *Proceedings of the International Congress Nonlinear Dynamical Analysis – 2007 dedicated to the 150th anniversary of A.M. Lyapunov*, Saint Petersburg, Russia, June 2007.
- [77] S. V. Raković, A. R. Teel, D. Q. Mayne and A. Astolfi. Simple Robust Control Invariant Tubes for Some Classes of Nonlinear Discrete Time Systems. In *Proceedings of the 45th IEEE Conference on Decision and Control 2006*, San Diego, CA, USA, December 2006.
- [78] D. Q. Mayne, S. V. Raković, R. Findeisen and F. Allgöwer. Output Feedback Model Predictive Control for Constrained Linear Systems under Uncertainty Based on Feed Forward and Positive Invariant Feedback Control. In *Proceedings of the 45th IEEE Conference on Decision and Control 2006*, San Diego, CA, USA, December 2006.
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- [81] J. Spjøtvold, S. V. Raković, P. Tøndel and T. A. Johansen. Utilizing Reachability Analysis in Point Location Problems. In *Proceedings of the 45th IEEE Conference on Decision and Control 2006*, San Diego, CA, USA, December 2006. Invited Session.
- [82] S. V. Raković and D. Q. Mayne. Set Robust Control Invariance for Linear Discrete Time Systems. In *Proceedings of the 44th IEEE Conference on Decision and Control and the 8th European Control Conference CDCECC 2005*, Sevilla, Spain, December 2005.
- [83] S. V. Raković and D. Q. Mayne. Robust Time Optimal Obstacle Avoidance Problem for Constrained Discrete Time Systems. In *Proceedings of the 44th IEEE Conference on Decision and Control and the 8th European Control Conference CDCECC 2005*, Sevilla, Spain, December 2005.
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