

Miroslav Krstic

Sr. Assoc. Vice Chancellor for Research
Director, Cymer Center for Control Systems and Dynamics
Daniel L. Alspach Endowed Chair in Dynamical Systems and Control

Distinguished Professor of Mechanical and Aerospace Engineering
Affiliate Distinguished Professor of Electrical and Computer Engineering
Affiliate Distinguished Professor of Mathematics

UNIVERSITY OF CALIFORNIA, SAN DIEGO

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Address: Department of Mechanical and Aerospace Engineering
University of California, San Diego
La Jolla, CA 92093-0411

Born: 1964

EDUCATION

PhD (1994), MS (1992) University of California, Santa Barbara, Dept. ECE
BSEE (1989) University of Belgrade, Yugoslavia, Dept. EE, summa cum laude, 5-yr prog.

EMPLOYMENT

2019- Affiliate Distinguished Professor, Department of Mathematics, UCSD
2017- Senior Associate Vice Chancellor for Research (5-yr re-appointment), UC San Diego
2016- Affiliate Distinguished Professor, Dept Electrical and Computer Engineering, UCSD
2015- Distinguished Professor, UCSD
2012-2017 Associate Vice Chancellor for Research, UC San Diego
2009- Daniel L. Alspach Endowed Chair, UCSD
2006-2009 Harold W. Sorenson Distinguished Faculty Fellow, UCSD
2005- Founding Director, Cymer Center for Control Systems and Dynamics, UCSD
2000- Full Professor, Dept Mechanical and Aerospace Engineering, UCSD
1997-1999 Associate Professor, Dept. MAE, UC San Diego
1995-1997 Assistant Professor, Dept. Mechanical Engineering and Inst. Systems Research, University of Maryland, College Park
1989-1991 tenure-track lecturer for control systems in mechanical and mining engineering at University of Belgrade

VISITING Positions

2013 Distinguished Visiting Fellow, *Royal Academy of Engineering*, UK
2010 Professor of Mathematics, *Université Diderot – Paris 7*, France
2007 Russell Severance Springer Distinguished Visiting Professor, *UC Berkeley*

AWARDS AND HONORS

MAJOR LIFETIME ACHIEVEMENT AWARDS

- 2023 *Bode Lecture Prize* (highest award of IEEE Control Systems Society)
- 2021 *Richard E. Bellman Control Heritage Award* (highest recognition in the United States for achievements in control systems), American Automatic Control Council (AACC)
- 2019 *W. T. and Idalia Reid Prize* (for lifetime achievements in control theory and differential equations), Society for Industrial and Applied Mathematics (SIAM)
- 2017 *Rufus Oldenburger Medal* (lifetime achievement in control), Amer. Soc. Mechanical Eng. (ASME)

OTHER LIFETIME CAREER RECOGNITIONS

- 2022 *Ruth Curtain Distributed Parameter Systems Award*, triennial, inaugural recipient, International Federation of Automatic Control (IFAC)
- 2022 *A.V. Balakrishnan Award* for Research in the Mathematics of Systems, biennial, inaugural recipient, University of Southern California
- 2019 *Nonlinear Control Systems Award*, triennial, International Federation of Automatic Control (IFAC)
- 2018 Foreign Member, *Serbian Academy of Sciences and Arts* (SANU)
- 2018 *Distinguished Member Award*, IEEE Control Systems Society
- 2017 *John Ragazzini Education Award*, American Automatic Control Council
- 2017 *Outstanding Contribution to Aerospace Research*, American Institute for Aeronautics and Astronautics (AIAA) San Diego Section
- 2016 *Henry Paynter Outstanding Researcher Award*, American Society of Mechanical Engineers (ASME)
- 2015 *Nyquist Lecture Prize*, American Society of Mechanical Engineers (ASME)
- 2015 Foreign Member, *Academy of Engineering of Serbia* (AINS)

FELLOW ELECTIONS

- 2017 *Fellow of AAAS* (American Association for the Advancement of Science)
- 2015 *Fellow of SIAM* (Society for Industrial and Applied Mathematics)
- 2015 *Assoc. Fellow of AIAA* (American Institute of Aeronautics and Astronautics)
- 2014 *Fellow of ASME* (American Society of Mechanical Engineers)
- 2014 *Fellow of IET* (Institution of Engineering and Technology, UK)
- 2008 *Fellow of IFAC* (International Federation of Automatic Control)
- 2001 *Fellow of IEEE* (Institute of Electrical and Electronics Engineers)

PAPER AND BOOK PRIZES

- 2019 *O. Hugo Schuck Best Paper Award*, American Automatic Control Council
- 2014 *Harold Chestnut Textbook Prize*, IFAC (International Federation for Automatic Control), triennial—highest recognition for authoring a book in the field of control systems; for the book *Boundary Control of PDEs: A Course on Backstepping Designs*, SIAM
- 2012 Semi-plenary paper award at *ASME Dynamic Systems and Control Conference*
- 1998 *George S. Axelby Outstanding Paper Award*, IEEE Trans. Automatic Control
- 1996 *O. Hugo Schuck Best Paper Award*, American Automatic Control Council

EARLY CAREER AWARDS

- 1999 *Presidential Early Career Award for Scientists and Engineers* (PECASE)
- 1998 *Office of Naval Research Young Investigator Award*
- 1996 *National Science Foundation Career Award*

OTHER MAJOR RECOGNITIONS

- 2016 *Recent Results on Nonlinear Delay Control Systems: In Honor of Miroslav Krstic*, Springer (a 407-page felicitation volume assembled by 45 leading researchers in the field of control of nonlinear systems with delays on the occasion of my 50th birthday)
- 2015-16 Honorary Professorships awarded by Northeastern University, Chongqing University, Donghua University, Dalian Maritime University
- 2016 Invitation Fellow, *Japan Society for the Promotion of Science*
- 2013 Distinguished Visiting Fellow of the *Royal Academy of Engineering*, United Kingdom
- 2007 Russell Severance Springer Distinguished Visiting Professor, *UC Berkeley*
- 2006-10 *Distinguished Lecturer*, Control Systems Society
- 2005 UCSD Chancellor's Associates Award for Excellence in Research in Sciences and Engineering (1st from Engineering in 16 years; 2004 winner Roger Tsien, Nobel Prize in Chemistry)

GRADUATE STUDENT PERIOD—DISSERTATION AND PAPER PRIZES

- 1995 *Lancaster Best Dissertation Award* (campus-wide), University of California, Santa Barbara
- 1995 Student Best Paper Award, *American Control Conference*
- 1993 Student Best Paper Award, *IEEE Conference on Decision and Control*

UNDERGRADUATE PERIOD

- 1988 Serbian Academy of Sciences and Arts Fellowship
- 1984 Ivo Lola Ribar Institute Fellowship

SERVICE AWARDS

- 2006 UC San Diego Diversity Award

REVIEWER AWARDS

- 2006 Outstanding Reviewer, *IEEE Transactions on Automatic Control*
- 2008, 2022 Excellent Reviewer, *AIAA Journal of Guidance, Control, and Dynamics*

AWARDS TO MY STUDENTS

- 2014 *Chancellor's Dissertation Medal* in Engineering (among 150 PhDs granted in 2013), UCSD, *Nikolaos Bekiaris-Liberis*
- 2014 *Best European Dissertation in Control* of Complex and Heterogeneous Systems, European Embedded Control Institute (EECI), *Delphine Bresch-Pietri*
- 2013 *Best University-wide Dissertation Award, Paris-Tech* (includes 12 most prestigious and oldest technical and business universities in the Paris region such as Ecole des Mines, Ecole Polytechnique, ENSAE, etc.), *Delphine Bresch-Pietri*
- 2003 *Exon Mobil Best Dissertation Award, Norwegian University of Science and Technology, Ole Morten Aamo* (for a thesis that I supervised and Aamo and I jointly published as a book *Flow Control by Feedback* with Springer)

Selected EDITORIAL ACTIVITIES

BOOK SERIES

- 2010- Springer series *Communications and Control Engineering*, Series Editor
- 2011- Springer Briefs series *Control, Robotics, and Automation*, Series Co-Editor
- 2011- Birkhauser series *Foundations of Systems and Control*, Member, Advisory Board
- 2012- Springer *Encyclopedia of Systems and Control*, Section Editor

JOURNALS (SELECTED):

2018-	<i>Systems & Control Letters</i> , Editor-in-Chief
2006-	<i>Automatica</i> , Editor for Adaptive and Distributed Parameter Systems
2009-2018	<i>IEEE Transactions on Automatic Control</i> , Senior Editor
2019-	<i>Advanced Control for Applications</i> , Editor at Large
2008	Associate Editor at Large, <i>IEEE Transactions on Automatic Control</i>
2009-	<i>ESAIM: Control, Optimisation, and Calculus of Variations</i> , Associate Editor
2012-	<i>Foundations and Trends in Systems and Control</i> , Member of Editorial Board
1998-2003	<i>Systems & Control Letters</i> , Associate Editor
1995-2013	<i>Int. J. Adaptive Control and Signal Processing</i> , Editor for Adaptive Control until 2012, Distinguished Advisor since 2012
1997-2000	<i>IEEE Transactions on Automatic Control</i> , Associate Editor

SERVICE TO SOCIETIES

IEEE Control Systems Society service (non-editorial)

2020-22, '18, '00-04	Member, <i>Board of Governors</i> , CSS
2018	Member, <i>Long-Range Planning Committee</i> , CSS
2012	Member, <i>Nominating Committee</i> , CSS
2009-2018	<i>IEEE Transactions on Automatic Control</i> , Senior Editor
2008-2010	Chair, <i>IEEE Fellow Eval. Committee</i> , CSS
2005-2007	Member, <i>IEEE Fellow Eval. Committee</i> , CSS
2002-2004	<i>Vice President for Technical Activities</i> , CSS
1997-2000	Chair, <i>CDC Student Best Paper Award Committee</i>

American Automatic Control Council service

2018, 19, 20	Chair, John Ragazzini Education Award selection committee
2012-2013	Member, Richard Bellman Control Heritage Award selection committee
2021, 2022	Member, Control Engineering Practice Award selection committee

International Federation on Automatic Control service

2022	Member, Chestnut Control Engineering Textbook Prize selection committee
2022	Member, IFAC TC Nonlinear Control Systems Award selection committee
2019, 2022	Member, Manfred Thoma Medal selection committee
2019, 2022	Member, High Impact Paper Award selection committee
2022	Chair, IFAC TC Adaptive and Learning Systems Award selection committee
2006-	<i>Automatica</i> , Editor for Adaptive and Distributed Parameter Systems

ASME Dynamic Systems and Control Division service

2013	Program Chair, <i>ASME Dynamic Systems and Control Conference</i> , Stanford University, CA
2012-2016, 2022-	Member, <i>Honors and Awards Committee</i> (chooses recipients of Oldenburger Medal, Takahashi Education Prize, Paynter Researcher Award, Draper Innovation Award, Rabins Leadership Award, DSCC Young Investigator Award, and Kalman Best Paper Award)

Other Major CONFERENCE ORGANIZATION

2008 General Co-Chair, 20th International Conference on Magnetically Levitated Systems and Linear Drives, San Diego, CA

KEYNOTE LECTURES (40)

2022 *Intl. Conf. Information, Communication, and Automation Technologies*, Sarajevo, Bosnia & Herz.
2022 *IFAC Workshop on Adaptive and Learning Control Systems*, Casablanca, Morocco
2021 *IFAC Workshop on Time-Delay Systems*, Guangzhou, China
2020 *IEEE Conference on Industrial Electronics and Applications*, Norway
2019 *IEEE Conference on Control Technology and Applications*, Hong Kong
2019 *SIAM Cont. on Control and Its Applications*, Chengdu, China
2019 *IFAC Workshop on Control of Systems Governed by Partial Diff. Equations*, Oaxaca, Mexico
2018 *Mathematical Theory of Systems and Control*, Hong Kong
2018 *2nd International Symposium on Autonomous Systems*, Chongqing, China
2017 *Asian Control Conference*, Brisbane, Australia
2017 ASME Oldenburger Medal Lecture, *Dynamic Systems and Control Conference*
2017 *IEEE International Conference on Control and Automation*, Ohrid, Macedonia
2016 *IEEE Intl. Conf. on the Science of Electrical Engineering*, Eilat, Israel
2016 *IcETLAN*, Zlatibor, Serbia
2015 ASME Nyquist Lecture, *Dynamic Systems and Control Conference*, Columbus, OH
2015 *IFAC Workshop on Adv. Control and Nav. for Autonomous Aerospace Vehicles*, Sevilla
2014 *IEEE Conference on Decision and Control*, Los Angeles
2014 *World Congress on Intelligent Control and Automation*, Shenyang, China
2014 *IcETLAN*, Vrnjacka Banja, Serbia
2013 *Congreso Nacional de Control Automático*, Mexico
2013 *IFAC Workshop on Control of Systems Governed by Partial Differential Equations*, Paris
2013 *IFAC Nonlinear Control Systems Symposium (NOLCOS)*, Toulouse, France
2013 *IFAC Workshop on Adaptation and Learning in Control and Signal Proc.*, Caen, France
2013 *IEEE Workshop on Open Problems and Challenges in Automotive Control*, Washington DC
2012 *IEEE Conference on Industrial Electronics and Applications*, Singapore
2012 *IEEE International Conference on Mechatronics and Automation*, Chengdu, China
2011 Diamond Anniversary Distinguished Lecturer, *Coordinated Science Laboratory, U. Illinois*
2010 *Intl. Conf. on Control, Automation, Robotics and Vision*, Singapore
2010 *Turkish Control Conference*, Gebze, Turkey
2010 *IEEE Multi-Conf. on Systems and Control*, Yokohama, Japan
2010 *IFAC Symposium on Automatic Control in Aerospace*, Nara, Japan
2010 *IFAC Workshop on Time-Delay Systems*, Prague, Czech Republic
2009 *ASME Dynamic Systems and Control Conference*, Hollywood, CA
2008 *Mediterranean Control Conference*, Ajaccio, Corsica, France
2008 *Conf. Control of Physical Systems and PDEs*, Paris, France
2008 *Chinese Control and Decision Conference*, Yantai, China
2007 *IFAC Symp. Adaptive Sys. in Control & Sig. Proc.*, St. Petersburg, Russia
2007 *IFAC NOLCOS Symposium*, Pretoria, South Africa
2007 *IEEE Adv. Process Control Workshop*, Vancouver, Canada
2006 *Chinese Control Conference*, Harbin, China

Selected DISTINGUISHED LECTURES (from > 200 seminars)

KEYNOTE TO INSTITUTE 60-YEAR ANNIVERSARY

2011 Diamond Anniversary Distinguished Lecturer, *Coordinated Science Laboratory, University of*

Illinois, Urbana-Champaign

LECTURE TOURS

- 2013 Lecture tour of UK (6 universities, 2 lectures each), sponsor *Royal Academy of Engineering*
- 2013 Lecture tour of southwestern France (several universities and institutes), sponsors *Institute of Mathematics* and *Institute of Fluid Mechanics of Toulouse*
- 2006-2010 Distinguished Lecturer, *IEEE Control Systems Society*
- 2003 *Southwest Mechanics Lecture Tour*, Distinguished Lecturer (5 universities)

INDIVIDUAL LECTURES AND COURSES

- 2018 Oldenburger Lecture, *Purdue University*
- 2017 “Leaders in Engineering,” *Rensselaer Polytechnic Institute*
- 2017 “Kwan Chao-Chi Distinguished Lecture,” *Chinese Academy of Sciences*
- 2013-2016 Distinguished Lecturer, *International Graduate School on Control*, Belgrade, Serbia
- 2012 Distinguished Lecturer, *International Summer School on Automatic Control*, Grenoble, France
- 2012 Distinguished Lecturer, *Dutch Institute of Systems and Control (DISC)*, Summer School on “Optimization and Control”
- 2012 Distinguished Lecturer, *International Graduate School on Control*, Paris, France
- 2009 Eastern Canada Lecture Tour (5 universities), *IEEE Control Systems Society*
- 2008 Nokia Distinguished Lecturer, CITRIS, *UC Berkeley*
- 2007 Springer Distinguished Lecturer, Dept. Mechanical Eng., *UC Berkeley*
- 2007 Distinguished Lecturer, Dept. Mechanical Eng., *Iowa State University*
- 2007 Distinguished Lecturer, Dept. ECE, *Ohio State University*
- 2007 Distinguished Lecturer, *Dutch Institute of Systems and Control (DISC)*, Summer School on “Nonlinear Control”

FELICITATION TALKS

- 2020 Praly Fest, IEEE CDC, Korea
- 2016 Basar Fest, IEEE CDC, Las Vegas
- 2016 Coron Fest, UPMC, Sorbonne Universités, Paris
- 2015 Praly Fest, Ecole des Mines, Paris
- 2012 Spong Fest, University of Texas, Dallas
- 2012 Sontag Fest, Rutgers University
- 2012 Bastin Fest, Université Catholique de Louvain, Belgium
- 2010 Helton Fest, University of California, San Diego
- 2009 Kokotovic Fest, University of California, Santa Barbara

TEACHING

- Nonlinear Systems* (MAE 281A), 98-23
- Nonlinear Control* (MAE 281B), 98-03
- Adaptive Control* (MAE 282), 99-10
- Control of Distributed Parameter Systems* (MAE 287), 99-11
- Robust and Multivariable Control* (MAE 284), 04
- Linear Control* (MAE 143B), Fall 98-07
- Signals and Systems* (MAE 143A), 05-10

PhD students graduated: 35

STUDENTS/POSTDOCS WITH FACULTY POSITIONS:

1. O. M. Aamo (Norwegian University of Science and Technology)
2. K. Ariyur (Purdue University)
3. J. Auriol (Supelec, Paris)
4. A. Balogh (University of Texas)
5. H. Basturk (Bogazici University, Turkey)
6. P. Bernard (MINES ParisTech, France)
7. D. Bresch-Pietri (MINES ParisTech, France)
8. F. Bribiesca Argomedeo (Institut National des Sciences Applique, Lyon, France)
9. X. Cai (Zhejiang Normal University, China)
10. E. Cerpa (Universidad Técnica Federico Santa María, Chile)
11. J.-Y. Choi (Pohang University, Korea)
12. F. Di Meglio (MINES ParisTech, France)
13. M. Diagne (Rensselaer Polytechnic Institute)
14. A. Ghaffari (Wayne State University)
15. F. Ikhouane (Universitat Politècnica de Catalunya, Spain)
16. H. Ito (Kyushu University of Technology, Japan)
17. W.-J. Liu (University of Southern Arkansas)
18. S.-J. Liu (Sichuan University, China)
19. S. Moura (UC Berkeley)
20. J. Qi (Donghua University, China)
21. B.-B. Ren (Texas Tech University)
22. T. Roux Oliveira (University of Rio de Janeiro, Brazil)
23. E. Schuster (Lehigh University)
24. S.-S. Tang (Texas Tech University)
25. D. Tsubakino (Nagoya University, Japan)
26. R. Vazquez (University of Seville, Spain)
27. H.-H. Wang (Tatung Institute of Technology, Taiwan)
28. C.-C. Yuan (Naval Academy of Taiwan)
29. J. Wang (Xiamen University)
30. J.-M. Wang (Beijing Institute of Technology)
31. H. Yu (Hong Kong University of Science and Technology – Guangzhou)

RESEARCH FUNDING

Career total: ~ \$24M

(This figure includes only my single-PI grants and my personal share on multi-investigator grants.)

Funding sources:

Government:

1. Air Force Office of Scientific Rsch.
2. Army Research Office
3. ARPA-E
4. California Energy Commission
5. Department of Energy
6. Los Alamos National Laboratory
7. NASA
8. National Science Foundation
9. Office of Naval Research

Industry:

10. Bosch
11. Cymer
12. Ford
13. General Atomics
14. L-3 Communications
15. Northrop Grumman
16. United Technologies

All Publications (1010):

18 books, 449 journal papers, 35 chapters, 506 refereed conference papers, 2 patents

Books Authored

- [B1] M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, *Nonlinear and Adaptive Control Design*, Wiley, 1995.
- [B2] M. Krstic and H. Deng, *Stabilization of Nonlinear Uncertain Systems*, Springer, 1998.
- [B3] O. M. Aamo and M. Krstic, *Flow Control by Feedback*, Springer, 2002.
- [B4] K. Ariyur and M. Krstic, *Real Time Optimization by Extremum Seeking Control*, Wiley, 2003.
- [B5] M. Krstic and A. Smyshlyaev, *Boundary Control of PDEs: A Course on Backstepping Designs*, SIAM, 2008.
- [B6] R. Vazquez and M. Krstic, *Control of Turbulent and Magnetohydrodynamic Channel Flows*, Birkhäuser, 2007.
- [B7] M. Krstic, *Delay Compensation for Nonlinear, Adaptive, and PDE Systems*, Birkhäuser, 2010.
- [B8] A. Smyshlyaev and M. Krstic, *Adaptive Control of Parabolic PDEs*, Princeton University Press, 2010.
- [B9] S.-J. Liu and M. Krstic, *Stochastic Averaging and Stochastic Extremum Seeking*, Springer, 2012.
- [B10] N. Bekiaris-Liberis and M. Krstic, *Nonlinear Control Under Non-constant Delays*, SIAM, 2013.
- [B11] I. Karafyllis and M. Krstic, *Predictor Feedbacks for Delay Systems: Implementations and Approximations*, Birkhäuser, 2017.
- [B12] A. Scheinker and M. Krstic, *Model-Free Stabilization by Extremum Seeking*, Springer, 2017.
- [B13] I. Karafyllis and M. Krstic, *Input-to-State Stability for PDEs*, Springer, 2018.
- [B14] Y. Zhu and M. Krstic, *Delay-Adaptive Linear Control*, Princeton University Press, 2020
- [B15] S. Koga and M. Krstic, *Materials Phase Change PDE Control & Estimation*, Springer 2020.
- [B16] J. Wang and M. Krstic, *PDE Control of String-Actuated Motion*, Princeton University Press, 2022.
- [B17] T. R. Oliveira and M. Krstic, *Extremum Seeking Through Delays and PDEs*, SIAM, to appear.
- [B18] H. Yu and M. Krstic, *Traffic Congestion Control by PDE Backstepping*, Birkhäuser, completed, under review.

CITATIONS (as of March 2023)

Web of Science (excludes books): h = 79
Scopus (excludes books): h = 87
Google Scholar (includes books): h = 112 (total > 60,000)

Citation ranking on Google Scholar in relevant categories: Automatic Control: 2nd

ADMINISTRATIVE LEADERSHIP (selected) at UC San Diego

2012- *Senior Associate Vice Chancellor for Research*

UCSD's Office of Research Affairs administers about \$1.1 Billion per year in research funding (UCSD is ranked #5 nationwide in research revenue). I oversee:

- (1) Organized Research Units (17 large cross-campus research institutes and centers; total budget \$90-120M/year; among directors: 9 members of NAS/NAE/NAM and one National Medal of Science recipient)
- (2) Research Personnel (academic review of 150 Research & Project Scientists)
- (3) Postdoctoral Affairs (1,500 postdocs, largest in the UC System)
- (4) Research Development
 - a. Seed Funds programs (Center Launch and FISP/CRES): program design and selection of multidisciplinary faculty teams, postdocs, and students grantees; budget about \$3M/year
 - b. Research Initiatives: work with the leadership of federal agencies, nat'l labs, UC system, foundations, industry, elected representatives, City of San Diego, and partner universities in creating funding opportunities
 - c. Team-building and matching negotiations for large grant applications
 - d. Limited Submissions (oversee four campus committees that select grant proposals to be submitted from UCSD: science & engineering, humanities and social sciences, life sciences, life sciences young investigators)
- (5) Advisory Council for Research Initiatives and Strategy (founder and chair of the campuswide council of associate deans for research)

2005- Founding Director, *Cymer Center for Control Systems and Dynamics*

2021-2022 Chair, Graduate Affairs Committee, MAE Department

2013-2018 Chair, External Affairs Committee, MAE Department

2012-13, 17-18 Chair, Vice Chair, Strategic Planning Committee, MAE Department

2000-2004 Vice Chair, Dept. MAE, UCSD

2000-2004 Chair, Undergraduate Affairs Committee, Dept. MAE, UCSD

Publications—Miroslav Krstic

Authored Books

1. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, [*Nonlinear and Adaptive Control Design*](#), Wiley, 1995. [\[Book Review\]](#)
2. M. Krstic and H. Deng, [*Stabilization of Nonlinear Uncertain Systems*](#), Springer, 1998.
3. O. M. Aamo and M. Krstic, [*Flow Control by Feedback*](#), Springer, 2002. [\[Book Review\]](#)
4. K. Ariyur and M. Krstic, [*Real Time Optimization by Extremum Seeking Control*](#), Wiley, 2003. [\[Book Review\]](#)
5. M. Krstic and A. Smyshlyaev, [*Boundary Control of PDEs: A Course on Backstepping Designs*](#), SIAM, 2008. [\[Book Review\]](#)
6. R. Vazquez and M. Krstic, [*Control of Turbulent and Magnetohydrodynamic Channel Flows*](#), Birkhauser, 2007.
7. M. Krstic, [*Delay Compensation for Nonlinear, Adaptive, and PDE Systems*](#), Birkhauser, 2009.
8. A. Smyshlyaev and M. Krstic, [*Adaptive Control of Parabolic PDEs*](#), Princeton University Press, 2010.
9. S.-J. Liu and M. Krstic, [*Stochastic Averaging and Stochastic Extremum Seeking*](#), Springer, 2012.
10. N. Bekiaris-Liberis and M. Krstic, [*Nonlinear Control Under Nonconstant Delays*](#), SIAM, 2013.
11. I. Karafyllis and M. Krstic, [*Predictor Feedback for Delay Systems: Implementations and Approximations*](#), Birkhauser, 2017.
12. A. Scheinker and M. Krstic, [*Model-Free Stabilization by Extremum Seeking*](#), Springer, 2017.
13. I. Karafyllis and M. Krstic, [*Input-to-State Stability for PDEs*](#), Springer, 2018. [\[Book Review\]](#)
14. Y. Zhu and M. Krstic, [*Delay-Adaptive Linear Control*](#), Princeton University Press, 2020.
15. S. Koga and M. Krstic, [*Materials Phase Change PDE Control and Estimation: From Additive Manufacturing to Polar Ice*](#), Birkhäuser, 2020.
16. J. Wang and M. Krstic, [*PDE Control of String-Actuated Motion*](#), Princeton University Press, 2022.
17. T. R. Oliveira and M. Krstic, [*Extremum Seeking through Delays and PDEs*](#), SIAM, 2022.
18. H. Yu and M. Krstic, [*Traffic Congestion Control by PDE Backstepping*](#), Birkhäuser, 2023.

Journal Papers

1. M. Krstic, "Algorithms for calculating flow and pressure distribution in gas networks," *Nafta*, vol. 41, pp. 265--274, 1990.
2. M. Krstic, "General gas network design for a desired stationary flow/pressure distribution," *Nafta*, vol. 41, pp. 493--498, 1990.
3. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "[Adaptive nonlinear control without overparametrization.](#)" *Systems Control Letters*, vol. 19, pp. 177--185, 1992.
4. M. Krstic, P. V. Kokotovic and I. Kanellakopoulos, "[Transient performance improvement with a new class of adaptive controllers.](#)" *Systems Control Letters*, vol. 21, pp. 451--461, 1993.
5. M. Krstic, I. Kanellakopoulos, and P. V. Kokotovic, "[Nonlinear design of adaptive controllers for linear systems.](#)" *IEEE Transactions on Automatic Control*, vol. 39, pp. 738--752, 1994.
6. M. Krstic and P. V. Kokotovic, "[Observer-based schemes for adaptive nonlinear state-feedback control.](#)" *International Journal of Control*, vol. 59, pp. 1373--1381, 1994.
7. M. Krstic, I. Kanellakopoulos and P. V. Kokotovic, "[Passivity and parametric robustness of a new class of adaptive systems.](#)" *Automatica*, vol. 30, pp. 1703--1716, 1994.
8. M. Krstic and P. V. Kokotovic, "[Adaptive nonlinear design with controller-identifier separation and swapping.](#)" *IEEE Transactions on Automatic Control*, vol. 40, pp. 426--441, 1995.

9. M. Krstic and P. V. Kokotovic, "[Control Lyapunov functions for adaptive nonlinear stabilization.](#)" *Systems Control Letters*, vol. 26, pp. 17--23, 1995.
10. M. Krstic and P. V. Kokotovic, "[Adaptive nonlinear output-feedback schemes with Marino-Tomei controller.](#)" *IEEE Transactions on Automatic Control*, vol. 41, pp. 274-80, 1996.
11. M. Krstic and P. V. Kokotovic, "[Modular approach to adaptive nonlinear stabilization.](#)" *Automatica*, vol. 32, pp. 625--629, 1996.
12. M. Krstic, J. Sun and P. V. Kokotovic, "[Robust control of nonlinear systems with input unmodeled dynamics.](#)" *IEEE Transactions on Automatic Control*, vol. 41, pp. 913--920, 1996.
13. M. Krstic, "[Invariant manifolds and asymptotic properties of adaptive nonlinear stabilizers.](#)" *IEEE Transactions on Automatic Control*, vol. 41, pp. 817--829, 1996.
14. M. M. Monahemi and M. Krstic, "[Control of wing rock motion using adaptive feedback linearization.](#)" *Journal of Guidance, Control, and Dynamics*, vol 19, pp. 905--912, 1996.
15. Z.-H. Li and M. Krstic, "[Maximizing regions of attraction via backstepping and CLFs with singularities.](#)" *Systems and Control Letters*, vol. 30, pp. 195-207, 1997.
16. Z. H. Li and M. Krstic, "[Optimal design of adaptive tracking controllers for nonlinear systems.](#)" *Automatica*, vol. 33, pp. 1459-1473, 1997.
17. H. Deng and M. Krstic, "[Stochastic nonlinear stabilization---Part I: A backstepping design.](#)" *Systems and Control Letters*, vol. 32, pp. 143-150, 1997.
18. H. Deng and M. Krstic, "[Stochastic nonlinear stabilization---Part II: Inverse optimality.](#)" *Systems and Control Letters*, vol. 32, pp. 151-159, 1997.
19. M. Krstic and Z. H. Li, "[Inverse optimal design of input-to-state stabilizing nonlinear controllers.](#)" *IEEE Transactions on Automatic Control*, vol. 43, pp. 336-351, 1998.
20. F. Ikhouane and M. Krstic, "[Robustness of the tuning functions adaptive backstepping design for linear systems.](#)" *IEEE Transactions on Automatic Control*, vol. 43, pp. 431-437, 1998.
21. Z.-H. Li and M. Krstic, "[Geometric/asymptotic properties of adaptive nonlinear systems with partial excitation.](#)" *IEEE Transactions on Automatic Control*, vol. 43, pp. 419-425, 1998.
22. F. Ikhouane and M. Krstic, "[Adaptive backstepping with parameter projection: robustness and asymptotic performance.](#)" *Automatica*, vol. 34, pp. 429-435, 1998.
23. M. Krstic, D. Fontaine, P. V. Kokotovic, and J. Paduano, "[Useful nonlinearities and global bifurcation control of jet engine surge and stall.](#)" *IEEE Transactions on Automatic Control*, vol.43, p.1739-45, 1998.
24. R. A. Freeman, M. Krstic, and P. V. Kokotovic, "[Robustness of adaptive nonlinear control to bounded uncertainties.](#)" *Automatica*, vol.34, p.1227-30, 1998.
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