



Curriculum vitae Europass



Informații personale

Nume / Prenume **Stoica, Adrian-Mihail**

Adresă(e) **București**

Telefon(oane) **0214117864**

Fax(uri) **0213181007**

E-mail(uri) **adrian.stoica@upb.ro**

Naționalitate(-tăți) **Romana**

Data nașterii

Sex **Masculin**

Locul de muncă vizat / Domeniul ocupațional

Experiența profesională

Perioada **Din noiembrie 1988 pana in prezent**

Funcția sau postul ocupat **1988-1994 asistent, 1994-1996 sef lucrari, 1996-2000- conferențiar, din 2000-profesor universitar la Facultatea de inginerie aerospațiala din cadrul Universității „Politehnica” din București. Din 2008, conducător de doctorat, domeniul fundamental Științe ingineresti, domeniul Inginerie aerospațială**

Activități și responsabilități principale **Activitati didactice: predare cursuri, activitati de seminar, laborator si proiectare in automatizarea aparatelor de zbor, indrumare proiecte de diploma, licenta si dizertatii, activitati de cercetare stiintifica, conducere doctorat, director centru de cercetari din cadrul facultatii, directorul departamentului Ingineria sistemelor aeronautice și management aeronautic „Nicolae Tîpei” de la Facultatea de inginerie aerospațiala**

Numele și adresa angajatorului **Universitatea POLITEHNICA din Bucuresti**

Tipul activității sau sectorul de activitate **Activitate didactica si de cercetare în domeniul sistemelor de comandă automată în aviație**

Perioada **Din octombrie 1979 pana in noiembrie 1988**

Funcția sau postul ocupat **Inginer proiectant**

Activități și responsabilități principale **Proiectare echipamente de comanda automata pentru procese secventiale utilizand automate programabile si calculatoare de proces**

Numele și adresa angajatorului **Institutul de proiectare si cercetare pentru automatizari , tehnica de calcul si telecomunicatii-Bucuresti**

Tipul activității sau sectorul de activitate **Proiectare instalatii de automatizare**

Educație și formare

Perioada **Din octombrie 1974 pana in iulie 1979**

Calificarea / diploma obținută **Inginer**

Disciplinele principale studiate /
competențe profesionale dobândite **Automatica si calculatoare**

Numele și tipul instituției de învățământ
/ furnizorului de formare **Institutul Politehnic din Bucuresti, Facultatea de automatica si calculatoare**

Nivelul în clasificarea națională sau internațională (rubrică facultativă, vezi instrucțiunile)

Perioada 1989-1993

Calificarea / diploma obținută Doctor Inginer

Disciplinele principale studiate / competențe profesionale dobândite Automatizarea aparatelor de zbor

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea „Politehnica” din București, Facultatea de Inginerie aerospațială

Nivelul în clasificarea națională sau internațională (rubrică facultativă, vezi instrucțiunile)

Limba(i) străină(e) cunoscută(e)

Autoevaluare
Nivel european (*)

Franceza

Engleza

Înțelegere		Vorbire		Scriere
Ascultare	Citire	Participare la conversație	Discurs oral	Exprimare scrisă
C1	C1	C1	C1	C1
C1	C1	C1	C1	C1

(*) Nivelul Cadrului European Comun de Referință Pentru Limbi Străine

Competențe și abilități sociale Organizare manifestari științifice cu participare internațională, ex. Lecture Series SCI-166, NATO-RTO “Achieving Successful Robust Integrated Control System Designs for the 21st Century Military Applications”, Bucharest, 19-20 May 2005; Workshop “Integrated Control in Manufacturing Systems”, 2000, Bucharest

Competențe și aptitudini organizatorice Directorul departamentului Ingineria sistemelor aeronautice și management aeronautic “Nicolae Tîpei” din cadrul Facultății de ingineria aerospațială din UPB (2005-2020);
Director al Centrului de cercetări pentru aeronautică și spațiu din UPB (2001-2005)
Directorul Subprogramului “Produce și aplicații ale tehnologiilor spațiale și aeronautice” din cadrul PNCDI-I “AEROSPATIAL” (2003-2006);
Director 11 proiecte de cercetare, dintre care 2 internaționale

Competențe și aptitudini tehnice Proiectare, simulare, analiza sistemelor de comanda automata, legi de dirijare, comanda automată a zborului, sisteme dinamice stocastice, algoritmi și metode de calcul numeric, filtrarea semnalelor.

Competențe și aptitudini de utilizare a calculatorului Descrieți aceste competențe și indicați contextul în care au fost dobândite: MATLAB/SIMULINK, C++, FORTRAN, PASCAL, Procesare texte: LATEX, MS Office.

Competențe și aptitudini artistice Descrieți aceste competențe și indicați contextul în care au fost dobândite. (Rubrică facultativă, vezi instrucțiunile)

Alte competențe și aptitudini Descrieți aceste competențe și indicați contextul în care au fost dobândite. (Rubrică facultativă, vezi instrucțiunile)

Permis(e) de conducere Da, categoria B

Informații suplimentare

1. Membru al Technical Committee for Aerospace al Federației Internaționale de Automatică (IFAC);
2. Membru AIAA (American Institute for Aeronautics and Astronautics)
3. Membru AMS (American Mathematical Society)
4. Expert evaluator în cadrul Consiliului Național al Cercetării Științifice Universitare din Ministerul Educației Naționale
5. Expert pe termen scurt în proiectul „Dezvoltarea unui Sistem Operațional al Calificărilor din Învățământul Superior din România”, contract nr. POSDRU/2/1.2/S/2, codul proiectului – 1622, (expert pe termen scurt pentru specializările „Echipamente și instalații de aviație” – Licență, și „Avionică și navigație aerospațială” – Master), 2009 - 2011
6. Coordonare și participare la realizarea dosarelor de acreditare ARACIS pentru programele de licență „Echipamente și instalații de aviație” și master „Avionică și navigație aerospațială”.
7. Membru al Consiliului Facultății de inginerie aerospațială
8. Membru al Senatului UPB

Anexe

Lista lucrări

LISTA DE LUCRARI

Monographs

V. Drăgan, T. Morozan, A.-M. Stoica, "Mathematical Methods in Robust Control of Discrete-Time Linear Stochastic Systems", Springer, 2010, ISBN 978-1-4419-0629-8.

V. Drăgan, T. Morozan, A.-M. Stoica, "Mathematical Methods in Robust Control of Linear Stochastic Systems", Springer, Second edition 2013, ISBN 978-1-4614-8662-6.

V. Drăgan, T. Morozan, A.-M. Stoica, "Mathematical Methods in Robust Control of Linear Stochastic Systems", Springer, 2006, ISBN 0-387-30523-8, 2nd Edition, 2013, ISBN 978-1-4614-8662-6, 442 pages.

A.-M. Stoica. "Disturbance Attenuation and Its Applications", Romanian Academic Press 2004, ISBN 973-27-1057-8.

V. Ionescu, A. Stoica "Robust stabilisation and H-infinity problems", Kluwer Academic Publishers, 1999, ISBN 0-7923-5753-1.

Papers in journals

Stoica, A.-M., Yaesh I., „Static Output Feedback Design in an Anisotropic Norm Setup”, Ann. Acad. Rom. Sci, Ser. Math. Appl. Vol. 12, No. 1-2, 2020, ISSN 2066-5997

Stoica, A.-M., Yaesh I., „Hopfield networks with multiplicative noise in an anisotropic norm setup”, Ann.Acad.Rom. Sci, Ser Math Appl, Vol. 11, No. 1, 2019.

Stoica, A.-M., Yaesh I., A Positive Real-Lemma Type Result with Respect to the Anisotropic Norm for Stochastic Systems with Multiplicative Noise, Symposium on Robust Control Design, 2018, vol. 51, issue 25, p. 281-286, WOS: 000451054400048

Stoica A.-M., Yaesh I., „State-feedback Q-stabilization and robust gamma-attenuation performance with respect to the anisotropic norm of discrete-time dynamic systems”, Bulletin mathematique de la societate des sciences mathematiques de Roumanie, 2018, vol. 61, no. 4, p. 491-500, WOS 000454162900011, **0.484 Impact factor**

A.-M. Stoica, I. Yaesh, “A bounded real lemma type-result with respect to the anisotropic norm setup for stochastic systems with multiplicative noise”, *Automatica IFAC*, Volume84 Issue C, October 2017, Pages 174-180, **5,451 Impact Factor**

A.-M. Stoica, V. Drăgan, “A Time-Periodic Control Law for Satellite Magnetic Stabilization”, *International Journal of Modeling and Optimization*, Vol. 7, No. 3, June 2017.

A.-M. Stoica, P.-V. Parvu, M. Bivolaru, “An H-infinity Design Approach for the Heading Hold Autopilot of a Flying Wing UAV”, *Applied Mechanics and Materials* (Volume 841), p.315-322, 2016.

C. Ene, A.-M. Stoica, “A Static Output Feedback Approach for Inverting a Dynamic System”, *Applied Mechanics and Materials* (Volume 841), p. 338-343, 2016.

Vasile Dragan, Toader Morozan, Adrian-Mihail Stoica, “Output-based H2 optimal controllers for a class of discrete-time stochastic linear systems with periodic coefficients”, *International Journal of Robust and Nonlinear Control* 04/2014; DOI:10.1002/rnc.3173 . **1.90 Impact Factor**

A.-M. Stoica, I. Yaesh „Boundedness Conditions for the Anisotropic Norm of Stochastic Systems with Multiplicative Noise”, *Annals of Academy of Romanian Scientists series on Mathematics and its Applications* 01/2015; 6(2):235-246.

A.-M. Stoica “A New Kalman-Type Approach for Satellites Attitude Determination”, *Applied Mechanics and Materials* Vol. 555 (2014) pp 57-65.

- A.-M. Stoica, I. Yaesh, "A small gain type result with respect to the induced L -infinity norm", *Mathematics in Science, Engineering and Aerospace*, Vol. 4, No. 3, pp. 207-213, 2013.
- A.-M. Stoica, I. Yaesh, "L-infinity Analysis and State-Feedback Control of Hopfield Networks", *IEEE Transactions on Neural Networks and Learning Systems*, 24(9), p. 1-7, 2013. **4.37 Impact Factor**
- V.G. Adir, A. M. Stoica, J. F. Whidborne, "Sliding Mode Control of a 4Y Octorotor" *UPB Scientific Bulletin, Series D: Mechanical Engineering* 01/2012; 74(4):37-52.
- A.-M. Stoica, M. Stoia-Djeska, G. Stroe. „Stability Analysis of an Aeroelastic System with Actuator Saturation, *Advanced Materials Research*, Volumes 463-464, 2012, 1527-1532, doi: 10.4028/www.scientific.net/AMR.463-464.1527
- A.-M. Stoica. „Kalman Filtering for Model-Based Networked Control Systems“, *Control Engineering and Applied Informatics*, 14(4), 2012, p. 10-16. **0.37 Impact Factor**
- V. Dragan, A.-M. Stoica. "Optimal H_2 filtering for a class of linear stochastic systems with sampling", *Automatica*, 48 (2012) p. 2494–2501. **3.13 Impact Factor**
- A.-M. Stoica, I. Yaesh. „On the Anisotropic Norm of Discrete Time Stochastic Systems with State Dependent Noise”, *Ann. Romanian Academy, Mathematics and its Applications*, 4(2), 2012, p. 209-220.
- A.-M. Stoica (2012) "Mixed H_2 / H_∞ Performance Analysis and State-Feedback Control Design for Networked Systems with Fading Communication Channels", *Mathematical Problems in Engineering*, vol. 2012, Article ID 291714, 16 pages, 2012. doi:10.1155/2012/291714. **1.08 Impact Factor**
- V. Drăgan, T. Morozaan și A.-M. Stoica (2010). "Iterative algorithm to compute the maximal and stabilising solutions of a general class of discrete-time Riccati type equations", *International Journal of Control*, Vol. 83, No. 4, p. 837 -847. **1.14 Impact Factor**
- A.-M. Stoica, M. Barbelian, V. Pana, C. Dragasanu (2010) "Reduced-Order Filter Design for Discrete-Time Systems Corrupted with Multiplicative Noise", *AIAA Journal of Guidance, Control, and Dynamics*, Vol. 33, No. 4, p. 1287-1293. **1.15 Impact Factor**
- Stoica, A.-M., V. Dragan, I. Yaesh, "Kalman-type filtering for stochastic systems with state dependent noise and Markovian jumping", *IFAC-SYSID*, 6-8 July 2009, Saint-Malo, France.
- A.-M. Stoica, I. Yaesh, "Adaptive control for a class of stochastic passive Hopfield networks", *Mathematical Reports*, 2009, vol. 11, no. 4, ISSN 1582-3067. **0.09 Impact Factor**
- A.-M. Stoica, "An H-infinity filtering problem for systems with state dependent noise", *Control Engineering and Applied Informatics*, 2009, vol. 11, no. 2, 35-42. **0.37 Impact Factor**
- A.-M. Stoica, I. Yaesh, "Markovian Jump Delayed Hopfield Networks with Multiplicative Noise", *Automatica-IFAC Volume: 44 Issue: 8, 2008*, p. 2157-2162, ISSN: 0005-1098. **3.13 Impact Factor**
- Stoica A.-M., I. Yaesh, "Stochastic Hopfield Networks with Multiplicative Noise and Jump Markov Parameters", *Mathematical Reports*, Vol. 1 (59), No. 1, 2007, p.111-122, ISSN 1582-3067; **0.09 Impact Factor**
- A.-M. Stoica, "State Feedback Q-Stabilization with Robust H-infinity Performance for Systems with LFT Based Parametric Uncertainty", *Control Engineering and Applied Informatics*, no. 2, vol. 7, 2005, p.3-9, ISSN 1454-865, **0.37 Impact Factor**
- A.-M. Stoica, I. Yaesh, "Hopfield Networks with Jump Parameters", *WSEAS Transactions on Systems*, no. 4, vol. 4, 2005, pg. 301-307, ISSN 1109-2777.
- V. Dragan, Morozaan, T., A.-M. Stoica "Stochastic Version of Bounded Real Lemma and Applications", *Mathematical Reports*, vol. 6, no. 4, 2004, 389-430, ISSN 1582-3067. **0.09 Impact Factor**
- V. Dragan, T. Morozaan, A.-M. Stoica "The Disturbance Attenuation Problem for a General Class of Linear Stochastic Systems", in *Advances in Automatic Control*, Eds. Mihail Voicu, Kluwer Academic Publishers, 2004, p. 39-54, ISBN 1-4020-7607-X.
- A.-M. Stoica, "On the Connection Between Riccati Inequalities and Equations in H_∞ control problems", in *Advances in Automatic Control*, Eds. Mihail Voicu, Kluwer Academic Publishers, 2004, p. 351-366, ISBN 1-4020-7607-X.

- V. Dragan, T. Morozan, A. Stoica "H2 Optimal control for linear stochastic systems", *Automatica-IFAC*, Vol. 40, No. 7, 2004, p. 1103-1113. **3.13 Impact Factor**
- A. Stoica "H-infinity type filtering for stochastic systems with state-dependent noise", *Revue Roumaine des Sciences Techniques, Serie Electrotehnique et energetique*, Tome 48, 2003, p. 539-548. **0.37 Impact Factor**
- A.-M. Stoica. "Stabilizing solution of Riccati type systems with finite jumps and applications to robustness analysis of sampled-data systems", *Control Engineering and Applied Informatics*, Vol. 5, No. 3, 4, 2003, p. 5-13, ISSN 1454-8658. **0.37 Impact Factor**
- A.-M. Stoica. "A unified algebraic approach to linear control design-A book review". *International Journal of Adaptive Control and Signal Processing*, Vol. 17, 2003, p. 259-263. **1.66 Impact Factor**
- V. Dragan, T. Morozan, A. Stoica "Stability radii for a class of differential stochastic systems", *Mathematical Reports, Romanian Academy*, Vol. 5 (55), No. 4, 2003, p. 301-315. **0.09 Impact Factor**
- A.-M. Stoica, I. Yaesh, "Robust H-infinity Control of Wings Deployment Loops for an Uninhabited Air Vehicle - The Jump Markov Model Approach", *AIAA Journal, Amer. Inst. Aeronaut. Astronaut., Journal of Guidance, Dynamics and Control*, ISSN: 0001-1452, vol.35, no. 2, 2002, pg. 407-411. **1.15 Impact Factor**
- A. Stoica, S. Berbente, A. Condurache, "Optimal flight control system for the lateral motion of a fighter aircraft", *Revue Roumaine des sciences techniques, Mecanique Appliquee*, Tome 45, no. 3, May-June 2000, p. 277-294.
- V. Dragan, A. Stoica "Robust stabilization of two-time scale systems with respect to the normalized coprime factorization", *International Journal of Control*, Vol. 75, No. 1, 2002, p. 1-10. **1.01 Impact Factor**
- V. Dragan, A. Stoica "Some singular perturbation techniques in robust control", *Revue Roumaine des sciences techniques*, Tome 45, No. 3, Juillet-Septembre, 2000, p. 337-348.
- A. Stoica "Small gain and robust stabilization of sampled-data systems" *Revue Roumaine des sciences techniques*, Tome 45, No. 3, Juillet-Septembre, 2000, p. 349-356.
- A.Stoica "A Robust Stabilization Problem for Discrete-Time Time-varying Stochastic Systems with Multiplicative Noise", *Mathematical Reports, Tomul 3(52)*, July-September 2000, p. 277-293, ISSN 1582-3067. **0.09 Impact Factor**
- A. Stoica "Robust H^∞ controllers with respect to parametric uncertainty", *Control Engineering and Applied Informatics*, Vol.1, Nr.1, 1999, p.44-50. **0.37 Impact Factor**
- A.Stoica, S. Berbente "An iterative procedure to solve a class of algebraic Riccati equations", *Scientific Bulletin University "Politehnica" of Bucharest*, Series D, Vol. 61, No.3-4, 1999, p. 387-394; **0.37 Impact Factor**
- V. Dragan, A. Halanay, A. Stoica "An LMI-approach to the gamma -attenuation problem for systems with state-dependent noise", *Stochastic Analysis and Applications*, Vol. 17, no. 3, 1999, p.395-404; **0.66 Impact Factor**
- V. Dragan, A. Halanay, A. Stoica "The γ -attenuation problem for systems with state dependent noise", *Stochastic Analysis and Applications* 01/1999; 17(3-3):395-404. DOI:10.1080/07362999908809609, **0.66 Impact Factor**
- V. Dragan, A. Halanay, A. Stoica "An alternative computational solution for optimal two-block Nehari problem and H-infinity problems", *IMA Journal Control of Mathematical Control and Information*, Oxford University, UK, no. 15, 1998, p.285-301; **0.38 Impact Factor**
- V. Dragan, A. Halanay, A. Stoica "Well conditioned computation for H-infinity controller near the optimum", *Numerical Algorithms*, no.15, 1997, p. 193-206. **1.01 Impact Factor**
- V. Dragan, A. Halanay, A. Stoica "A small gain theorem for linear stochastic systems", *Systems & Control Letters*, Olanda, no. 30, 1997, p. 243-251. **1.89 Impact Factor**
- A. Stoica, "Optimal robust design procedures for flight control systems", *Revue Roumaine des sciences techniques, Mecanique appliquee*, Tome 42, no. 5-6, sept. 1997, p.439-449;
- V. Dragan, A. Halanay, A. Stoica "On robustness with respect to multiplicative perturbations", *Revue Roumaine des Sciences Techniques, Serie Electrotehnique et Energetique*, Tome 41, no. 3, juillet-septembre 1996, p. 363-377; **0.37 Impact Factor**

A.Stoica, N. Ene "Optimal design of a stability augmentation system using a model matching technique", *Revue Roumaine des Sciences Techniques, Serie Electrotechnique et Energetique*, Tome 41, no. 3, juillet-septembre 1996, p.379-3

A.-M. Stoica "Optimal robust design for aircraft control systems" in "Qualitative problems for differential equations and control theory", World Scientific, Singapore, 1995, p.207-216;

V. Drăgan, A. Halanay, A. Stoica „An LMI solution to a disturbance attenuation problem with state feedback for stochastic systems”, *Revue Roumaine des Sciences Techniques - Serie Électrotechnique et Énergétique* 01/1996; 41(4). · **0.37 Impact Factor**

A. Stoica "Flight control system design against scale factor sensor failures", *Revue Roumaine des sciences techniques, Mecanique appliquee*, Tome 41, no. 5-6, sept.-oct. 1996, p.381-387; **0.37 Impact Factor**

A. Stoica "Practical design of robust control systems with respect to parametric uncertainties", *Revue Roumaine des sciences techniques, Mecanique appliquee*, Tome 41, no. 3-4, mai-aug. 1996, p.223-231;

V. Dragan, A. Halanay, A. Stoica "Remarks on order reduction for a robustly suboptimal controller via singular perturbations", *Systems & Control Letters*, vol.24, p.317-320, 1995, **1.89 Impact Factor**

A.Stoica, "A H-infinity design method based on finite time-interval control", *Scientific Bulletin University "Politehnica" of Bucharest*, vol.53, nr.1-2, p.195-207,1991

A. Stoica, "Robust controllers design for multivariable systems", *Scientific Bulletin University "Politehnica" of Bucharest*, vol.52, no.1, p.107-112,1990

A. Stoica, "A Design Method of Constant Controllers for Linear Stochastic Systems", *Scientific Bulletin University "Politehnica" of Bucharest*, Tome LI, p.97-103,1989

A. Stoica, "Guidance law for aircrafts in airport area", *Scientific Bulletin University "Politehnica" of Bucharest*, Tome L, p.25-35, 1988

A. Stoica, "Optimal guidance in airport area", *Scientific Bulletin University "Politehnica" of Bucharest*, Tome XLVIII, p.81-91,1986

A. Stoica, "Aircraft fuel consumption via optimal guidance laws; a case study for aircraft ROMBAC 1-11", *Scientific Bulletin University "Politehnica" of Bucharest*, Tome XLVI-XLVII, p.181-191,1984-1985.

Papers in conferences proceedings

A.-M. Stoica, C. Ene, I.B. Jakab, „A Discrete-Time Kalman Filtering Method for Launch Vehicle under Parametric Modelling Uncertainty”, EASN Conference, Athens, Greece, 3-6 September 2019.

A.-M. Stoica, T.V. Chelaru, F. Stoican, B. Ciubotaru, „A Kalman Filtering Approach for Systems Subject to Parametric Modeling Uncertainties”, Automatic Control in Aerospace Conference, Cranfield, UK, 27-30 August 2019

S. Diaconescu, A. Sperila, B. Ciubotaru, A.-M. Stoica, „Space Micro-Launcher H-infinity Control Under Parametric Modeling Uncertainties”, Automatic Control in Aerospace Conference, Cranfield, UK, 27-30 August 2019

A.-M. Stoica, I.B. Jakab, „Robust Control System Design for Launch Vehicles Using Stochastic Models with Multiplicative Noises”, OPTIROB, Constanta, 27 June-1 July 2019

Stoica A.-M., Stăfanescu I., Control Laws for Multivariable Systems Applied in Helicopter AFCS Design, International conference of numerical analysis and applied mathematics, WOS: 000445105400297

A.-M. Stoica, C. Ene, P.-V. Parvu, „Autopilot Design for the Lateral-Directional Motion of an UAV”, Proceedings of the 19th International conference AFASES, Braşov, Romania, 25-27 May 2017.

A.-M. Stoica, P.-V. Parvu, C. Ene, „An H-infinity Design Method for the Pitch Attitude Hold Autopilot of a Flying UAV”, Proceedings of the 18th International conference AFASES, Braşov, Romania, 26-28 May 2016;

A.-M. Stoica, M.-R. Stăfănescu, “An H-infinity Design Approach for a PID Automatic Flight Control System of a Launch Vehicle”, Proceedings of the International Conference Aerospace, Robotics, Biomechanics, ICMERA, 4-6 November 2016, Bucharest, Romania.

Stoica Adrian-Mihail, Constantinescu Cristian-Emil and Nechita Silvia “A Linear Quadratic Integral Design Approach for the Automatic Control System of a Launch Vehicle”, OPTIROB 2015, 29 June-2 July, Constanţa, Romania;

Stoica Adrian-Mihail, "A Mixed H_2/H -infinity Jump Markovian Design Approach for the Automatic Flight Control System of an Unmanned Airship, ICMERA, 2015, Bucharest, 29-31 October.

Stoica Adrian-Mihail "A Criterion for Robust Stability with Respect to Parametric Uncertainties Modeled by Multiplicative White Noise with Unknown Intensity, with Applications to Stability of Neural Networks", IFIP 2015, Sophia Antipolis, France
June 29 - July 3, 2015

Stoica Adrian-Mihail, Constantinescu Emil, "A Mixed H_∞ -Guardian Maps Design Procedure for the Automatic Flight Control System of Launch Vehicles", Congress IAC 66, 2015, Jerusalem, Israel

A.-M. Stoica, C. Constantinescu "An H_∞ State Feedback Control Law for Launch Vehicles", Proceedings of ICMERA, 24-27 October, 2014.

I. Yaesh, A.-M. Stoica "Linear time-varying anisotropic filtering and its application to nonlinear systems state estimation", Proceedings of European Control Conference, 25-27 June 2014, Strasbourg, France.

A.-M. Stoica, "L₁ Controller Design for a Flying Wing Unmanned Aerial Vehicle", Proceedings of ICMERA, 2013.

A.-M. Stoica, C. Drăgășanu, "A Mixed Kalman/ H_∞ Filtering Approach for Augmented Proportional Navigation Guidance", Proceedings of the 64th International Astronautical Congress, Beijing, 24-27 September 2013.

I. Yaesh, A.-M. Stoica, "Leveling Loop Design and State Multiplicative Noise Kalman Filtering" Itzhack Y. Bar-Itzhack Memorial Symposium on Estimation, Navigation, and Spacecraft Control, Haifa, Israel, October 14–17, 2012.

A.-M. Stoica, "A Mixed H_2 / H_∞ Estimation Problem for Linear Systems with State Dependent Noise", Proceedings of IECON 2011- the 37th Annual Conference of the IEEE Industrial Electronics Society, 7-10 November 2011, Melbourne, Australia.

A.-M. Stoica, "Mixed Kalman/ H_∞ Filtering for Stochastic Linear Systems Corrupted with State-Dependent Noise", Proceedings of the Sixth International Conference on Dynamic Systems and Applications, 25-28 May 2011, Atlanta, USA.

A.-M. Stoica, "Performance analysis of networked systems with fading communication channels" Proceedings of the 18 th International Conference on Control Systems and Computer Science", 24-27 May 2011, Bucharest, Romania.

A.-M. Stoica, I. Yaesh, "L-infinity Analysis of Hopfield Networks", Proceedings of IEEE Symposium Series on Computational Intelligence, 11-15 April 2011, Paris, France.

A.-M. Stoica "Mixed H_2 and H_∞ Performance Analysis of Networked Control Systems with Fading Communication Channels", European Conference of Control, 30 November-2 December 2010, Puerto de la Cruz, Spain.

A.-M. Stoica, M. Stoia-Djeska, L. Stroe "Stability Analysis of an Aeroelastic System with Actuator Saturation", International Conference on Mechanical Engineering, Robotics and Aerospace, Bucharest, 2-4 December, 2010.

A.-M. Stoica, M. Barbelian, C. Dragasanu, V. Pana, "Reduced-order filter design for discrete-time systems corrupted with multiplicative noise", AIAA Guidance, Navigation and Control, Chicago, USA, 10-13 August 2009.

Stoica, A.-M., V. Dragan, I. Yaesh, "Kalman-type filtering for stochastic systems with state dependent noise and Markovian jumping", IFAC-SYSD, 6-8 July 2009, Saint-Malo, France.

Stoica, A.M., I. Yaesh, "Passivity of a class of Hopfield networks - Application to chaos control", ICINCO 2008, Portugal. Proceedings of the fifth international conference on informatics in control, automation and robotics, vol. SPSMC, ISBN 978-989-8111-32-6.

Stoica, A.M., G. Freiling, V. Dragan "Iterative algorithms for stabilizing solutions of game theoretic Riccati equations of stochastic control", Mathematical Theory of Network and Systems-MTNS 2008, Blacksburg, Virginia, USA.

Stoica A.-M., Yaesh I. "Kalman-type filtering for discrete-time stochastic systems with state-dependent noise", Mathematical Theory of Network and Systems-MTNS 2008, Blacksburg, Virginia, USA.

Stoica A.-M., "Automatic Flight Control Using Sampled-Data H_2 / H_∞ Optimization", Congress ICAS (International Council of Aeronautical Sciences) 14-19 September 2008, USA, ISBN 0-9533991-9-2.

A.-M. Stoica, "Stability and Robustness Properties of a Class of Discrete-Time

- Residual Generators”, Proceedings of the 6th International Congress of Industrial and Applied Mathematics (ICIAM), Zurich, 16-20 July, 2007.
- A.-M. Stoica, “A Unified Algebraic Approach to Residual Generators Design”, Proceedings of the 9th International Symposium on Automatic Control and Computer Science, Iasi, 16-18 noiembrie, 2007, CD-ROM.
- Stoica, A.-M., V. Dragan “Kalman-Type Estimation for Systems Corrupted with Additive and Multiplicative White Noise”, Proceedings of the 13th International Symposium on Systems Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation, Craiova, Romania, 16-18 October 2007, CD-ROM.
- Stoica, A.-M., Tiba D., “A Kalman-type filtering problem in the presence of multiplicative white noise”, Proceedings of EUROGEN 2007, Jyvaskyla, Finland, 11-13 June, 2007, ISBN 978-951-39-2863-6, CD-ROM.
- Stoica, A.-M., “A mixed H_2 / H_∞ type problem for a class of stochastic systems with finite jumps”, The 16th International Conference on Control Systems and Computer Science, 23-25 May, Bucharest 2007, CD-ROM.
- Stoica, A.-M., Constantinescu A., “Fault Detection Algorithm Based on a Discrete-Time Observer Residual Generator - A GPS Application”, Proceedings ECC (European Control Conference), Kos, Greece, 2-5 July 2007, p.1587-1594.
- A.-M. Stoica, "A Disturbance Attenuation Type Design Method in Fault Detection and Isolation Problems", NATO RTO Specialists Meeting, "Emerging and Future Technologies for Space Based Operations Support to NATO Military Operations", 6-7 September, 2006, Bucharest.
- A.-M. Stoica, Yaesh, I. “Hopfield Networks with Multiplicative Noise and Jump Markov Parameters”, Proceedings MTNS 2006 (The 17th International Symposium on Mathematical Theory of Networks and Systems), July, 24-28, Kyoto, Japan, p.2731-2737, ISBN 978-0-898716-03-0.
- A.-M. Stoica, Dragan, V. “Riccati Type Equations for Stochastic Systems with Jumps”, MTNS 2006 (The 17th International Symposium on Mathematical Theory of Networks and Systems), July, 24-28, Kyoto, Japan, p.753-765, ISBN 978-0-898716-03-0.
- A.-M. Stoica, V. Drăgan, “ H_2 Optimal State-Feedback Control for Systems with Finite Jumps Corrupted by White Noise”, Proceedings of CDC-ECC, 12-15 December 2005, Seville, Spain, ISBN 0-7803-9567-0, p.5210-5214.
- A. Stoica, I. Yaesh “Hopfield Networks with Jump Markov Parameters”, Proceedings of WSEAS Conference, Lisbon, Portugal, June 2005, ISBN 960-8457-24-6, CD-ROM.
- A. Stoica “State feedback Q-stabilization with robust H^∞ performance for systems with LFT based parametric uncertainty”, Proceedings The 15th International Conference on Control Systems and Computer Science (CSCS-15), 26-27 May 2005, ISBN 973-8449-89-8, CD-ROM.
- V. Dragan, A. Stoica, "Linear-quadratic problem for sampled-data systems with state-dependent noise", Proceedings of Mathematical Theory of Networks and Systems (MTNS), Belgium, 2004, ISBN 90-5682-517-8, CD-ROM.
- A. Stoica "Robust stability with respect to parametric uncertainty and applications to prediction of pilot induced oscillations", Proceedings of International Symposium on Automatic Control and Computer Science, Iasi, 2004, ISBN 973-621-083-9, CD-ROM.
- A. Stoica, V. Dragan, A. Ionita, "Robust approach for pilot induced oscillations detection", Proceedings of International Conference on Mathematical Problems in Engineering and Aerospace Sciences (ICNPAA), Timisoara, 2-4 July, 2004 in Cambridge Scientific Publishers, ISBN 1-904868-48-7, p.627-636.
- A. Stoica, M. Grimble "Robustness properties of a class of residual generators", 5th International Conference on Mathematical Problems in Engineering and Aerospace Sciences (ICNPAA), Timisoara, 2-4 July, 2004 in Cambridge Scientific Publishers, ISBN 1-904868-48-7, p.627-635.
- A. Stoica, M. Stoia-Djeska, A. Ioniță “A Control Design for a Typical Flutter Suppression Problem”, Proceedings of the 11th International Symposium on Systems Theory, Automation, Robotics, Computers, Informatics, Electronics and Instrumentation, Craiova, October 2003, ISBN 973-8043-415-5, p.619-626.
- A. Stoica "Properties and computation of stabilizing solution to Riccati type systems with finite jumps", Proceedings The 14th International Conference on Control Systems and Computer Science, 2-5 July 2003, ISBN 973-8449-17-0, CD-ROM.
- A.-M. Stoica, M. Grimble. "H-infinity low-order design for fault detection and identification problems", Proceedings IFAC-SAFEPROCESS Conference, Washington, USA, 2003, Elsevier, ISBN 978-0-08-044011-8, p.537-542.
- V. Dragan, T. Morozan, A. Stoica "Iterative procedure for stabilizing solutions of differential Riccati type equations arising in stochastic control." Proceedings of IFIP (International Federation for Information Processing) Conference "Analysis and Optimization of Differential Systems", 10-14 September 2002, Constanta, Kluwer Academic, p. 133-144, ISBN 1-4020-7439-5.

- V. Dragan, A. Stoica "State-Feedback Mixed H₂/ H-infinity Problem for Linear Systems with Finite Jumps", Proceedings of The 15th International Symposium on Mathematical Theory of Networks and Systems, MTNS 2002, Indiana USA, August 12-16, 2002, CD-ROM, 8 pag.
- A. Stoica, M. Grimble "An H-infinity Design Method for Fault Detection and Identification Problems", Proceedings of IFIP (International Federation for Information Processing) Conference "Analysis and Optimization of Differential Systems", 10-14 September 2002, Constanta, Kluwer Academic, p. 409-420, ISBN 1-4020-7439-5.
- A.Stoica, S. Berbente, E. Oprea " H-infinity Design of Automatic Flight Control Systems" Proceedings of ARA (American Romanian Association) Congress, 29 May-2 June 2002, Oradea, published at Polytechnic International Press, Montreal Canada, ISBN 2-553-01024, p. 888-892;
- A. Stoica "H-infinity filtering of Signals subjected to multiplicative white noise", Proceedings of IFAC (International Federation of Automatic Control), Barcelona, 21-26 July 2002, ISBN 008044184-X, CD-ROM.
- A. Stoica "Lateral Flight Control Design Using Optimal H-infinity Controllers", Proceedings of Congress ICAS (International Council of the Aeronautical Sciences) Toronto 2002, p.545.1-545.9.
- A. Stoica, I. Yaesh, "An H-infinity control problem: deterministic and stochastic perspectives, DYCOMANS Workshop, Bucharest, 26-28 September, 2001, p.34-38, ISBN 973-596-032-X.
- A. Stoica, I. Yaesh, "Automatic control system for unmanned air vehicle-jump Markovian approach", Proceedings International Symposium "Carafoli 2001", Oct. 19-20, 2001, Bucharest, p. 71-80; ISBN 973-596-032-X.
- A. Stoica "Gamma-attenuation techniques in control", Proceedings of The 19th ACT Club Plenary Meeting, Strathclyde University, 24th May, 2001, p.1-21.
- A. Stoica "Optimal H-infinity design of a lateral autopilot for a highly maneuverable aircraft", Proceedings 13th International Conference on Control and Computer Science (CSCS13), May 31-June 2, 2001, p. 56-62, ISBN 973-85237-1-0;
- V. Dragan, A. Stoica, "State feedback mixed H₂/H-infinity problem for hybrid systems", Proceedings 7th International Symposium on Automatic Control and Computer Science, Iasi, oct. 2001, CD-ROM.
- A. Stoica "H-infinity filtering of signals corrupted with multiplicative white noise", Proceedings 7th International Symposium on Automatic Control and Computer Science, Iasi, oct. 2001, CD-ROM.
- V. Dragan, A. Stoica "Mixed H₂/H-infinity problem for hybrid systems", Proceedings the XXIX-th Conference Technical Military Academy, 15-16 November 2001, CD-ROM.
- A. Stoica, E. Oprea "Proiectarea H-infinity a sistemelor de comanda automata a zborului", Proceedings the XXIX-th Conference Technical Military Academy, 15-16 November 2001, CD-ROM.
- A. Stoica, M. Grimble "Robust H-infinity controller design with respect to parametric uncertainty", Proceedings of European Control Conference ECC 2001, Porto, 4-7 September, 2001, CD-ROM, 8 pag.
- A. Stoica "Small gain for linear jump systems with applications to sampled-data systems", Proceedings of European Control Conference ECC 2001, Porto, 4-7 September, 2001, p.3265-3269.
- V. Dragan, A. Stoica "Riccati type matrix differential equations with jumps", Proceedings of European Control Conference ECC 2001, Porto, 4-7 September, 2001, p.2587-2592.
- V. Dragan, A. Stoica "Robust epsilon -independent controllers with respect to the normalized coprime factorization of two-time scale systems", Proceedings of the Sixth International Conference on Methods and Models in Automation and Robotics, 28-31 August, 2001, Miedzyzdroje, Polonia, CD-ROM.
- A.Stoica "Robust state feedback stabilisation for a class of hybrid systems", Proceedings of Process Control and Instrumentation 2000 Conference, Glasgow, Scotland, 26- 28 July, p. 394-399.
- V. Dragan, A. Stoica "Estimateurs d'etat pour systemes lineaires singulierement perturbees avec retard des measurements", Proceedings of Conference Internationale Francophone d'Automatique, CIFA 2000, Lille, France, p. 196-200.
- V. Dragan, A. Stoica "Robust stabilisation of two-time-scale systems with respect to the normalized coprime factorization", Proceedings of Mathematical Theory of Networks and Systems (MTNS), Perpignan, France, 19-23 June, 2000, CD-ROM.

- V. Dragan, A. Stoica "A gamma -attenuation problem for discrete-time time-varying systems with jump Markov perturbations", Proceedings of European Control Conference ECC99, Karlsruhe, 31aug.-3 sept. 1999, CD-ROM.
- A. Stoica "Robustness Properties of H-infinity Controllers with Respect to Parametric Uncertainty", Proceedings of CSCS-12 (Conference on Control Systems and Computer Science), 26-29 mai 1999, Bucharest, p.83-87.
- A. Stoica, V. Dragan "H-infinity Problem for Markovian Jumping Discrete-Time Time-Varying Linear Systems", Proceedings of the Workshop "Techniques for Supervisory Management Systems", 12-14 May 1999, Bled, Slovenia, p.47-54.
- V. Dragan, A. Stoica "A gamma -attenuation problem for discrete-time time-varying stochastic systems with multiplicative noise", Proceedings of the 37th IEEE Conference on Decision and Control (CDC), December 16-18, 1998, Tampa, USA, WM09-7, p. 796-799.
- V. Dragan, A. Stoica, "Optimal H-infinity Design of a glide-slope coupler", Proceedings SSC Conference, IFAC, Bucharest, 1997, p.273-277.
- V. Dragan, A. Halanay, A. Stoica "A small gain and robustness for linear systems with jump Markov perturbations", Proceedings of Mathematical Theory of Networks and Systems (MTNS), Padova, Italy, 6-10 July,1998, ThE11, p.779-782.
- A. Stoica "Optimal H-infinity design of a control system for the angle of attack", Proceedings of European Control Conference of Control, Bruxelles, 1-7 July 1997, TH-A J4(100), 5 pag., CD-ROM.
- V. Dragan, A. Stoica "A well-conditioned computation method to solve two-block Nehari problems", Proceedings of The Third International Symposium on Methods and Models in Automation and Robotics, Miedzyzdroje, Polonia, 1996, p.251-255.
- A. Stoica "Well-conditioned procedures for optimal robust design of flight control systems", Proceedings of the 20th Congress ICAS, Sorrento, Italia, 1996, p. 2689-2698.
- V. Dragan, A. Halanay, A. Stoica "A procedure to compute an optimal robust controller", Proceedings European Control Conference, Rome, 1995, p.1005-1010.
- A. Stoica "Polytopes of polynomials in the design of robust flight control systems", Proceedings European Control Conference, Rome, 1995, p.3140-3145.

15.04.2020

Prof.dr.ing. Adrian-Mihail Stoica