



### Informații personale

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

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Naționalitate(-tăți) Romana

Data nașterii

Sex Masculin

**Locul de muncă vizat /**  
**Domeniul ocupațional** **(rubrică facultativă, vezi instrucțiunile)**

### 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		Sciere
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 stiintifice cu participare internațională, ex. Lecture Series SCI-166, NATO-RTO “Achieving Successful Robust Integrated Control System Designs for the 21<sup>st</sup> 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 si 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 si 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, 2<sup>nd</sup> 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, „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  $H_2 / H_\infty$  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  $H_\infty$  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 Electrotehnică 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  $H^\infty$  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  $\gamma$ -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 Electrotehnică 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 Electrotehnică 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, Mécanique appliquée*, 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, Mécanique appliquée*, 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., Stafanescu 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, Constanța, Romania;

Stoica Adrian-Mihail, “A Mixed H<sub>2</sub>/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  $H_\infty$ -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  $H_\infty$  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, "L<sub>1</sub> Controller Design for a Flying Wing Unmanned Aerial Vehicle", Proceedings of ICMERA, 2013.

A.-M. Stoica, C. Drăgășanu, "A Mixed Kalman/ $H_\infty$  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  $H_2 / H_\infty$  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/ $H_\infty$  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 18th 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  $H_\infty$  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-SYSID, 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  $H_2 / H_\infty$  Optimization", Congress ICAS (International Council of Aeronautical Sciences) 14-19 September 2008, USA, ISBN 0-9533991-9-2.

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