# SCIENTIFIC PAPERS

## A. Prof. dr. Marius Tomescu

**ISI papers**

1. C.-A. Bojan-Dragos, R.-E. Precup, **M.L. Tomescu**, S. Preitl, O.-M. Tanasoiu, S. Hergane, Proportional-Integral-Derivative Gain-Scheduling Control of a Magnetic Levitation System, INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL, ISSN 1841-9836, 12(5), 599-611, October 2017.

2. Precup, R. E.; **Tomescu, M. L.**, Stable fuzzy logic control of a general class of chaotic systems, (2015) **Neural Computing & Applications**, Volume: 26 Issue: 3 Pages: 541-550.

3. Precup, R. E.; **Tomescu, M. L.**; Petriu, E. M., (2015) A Unified Anti-Windup Technique for Fuzzy and Sliding Mode Controllers, **International Journal of Computers Communications & Control,** Volume: 10 Issue: 6 Pages: 843-855.

4. Precup, R. E.; **Tomescu, M. L.;** Dragos, C. A. (2014): Stabilization of Rossler chaotic dynamical system using fuzzy logic control algorithm. **International Journal of General Systems**, Volume: 43 Issue: 5 Pages: 413-433.

5. R.-E. Precup, M.-B. Rădac, **M. L. Tomescu**, E. M. Petriu and St. Preitl, (2013): Stable and convergent iterative feedback tuning of fuzzy controllers for discrete-time SISO systems, **Expert Systems with Applications** (Elsevier Science), vol. 40, no. 1, pp. 188-199, (www.sciencedirect.com, dl.acm.org).

6. R.-E. Precup, **M. L. Tomescu**, St. Preitl, E. M. Petriu, J. Fodor and Cl. Pozna, (2013): Stability analysis and design of a class of MIMO fuzzy control systems, **Journal of Intelligent & Fuzzy Systems** (IOS Press), vol. 25, no. 1, pp. 145-155, (iospress.metapress.com).

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8. R.-E. Precup, **M. L. Tomescu**, M.-B. Rădac, E. M. Petriu, St. Preitl and C.-A. Dragoş, (2012): Iterative performance improvement of fuzzy control systems for three tank systems, **Expert Systems with Applications** (Elsevier Science), vol. 39, no. 9, pp. 8288-8299, (www.sciencedirect.com, dl.acm.org).

9. Precup, R.-E., **Tomescu, M.-L.,** Petriu, E. M., Preitl, St. and Dragoş, C.-A. (2012): Stable design of a class of nonlinear discrete-time MIMO fuzzy control systems. **Acta Polytechnica Hungarica** (Óbuda University), vol. 9, no. 2, pp. 57-76, (uni-obuda.hu/journal/).

10. Precup, R.-E., Preitl, St., Petriu, E. M., Tar, J. K., **Tomescu, M. L.** and Pozna, Cl. (2009): Generic two-degree-of-freedom linear and fuzzy controllers for integral processes. **Journal of The Franklin Institute** (Elsevier Science), vol. 346, no. 10, pp. 980-1003, (www.sciencedirect.com). (ISSN: 0016-

0032)

**11.** Precup, R.-E., **Tomescu, M. L.** and Preitl, St. (2009): Fuzzy Logic Control System Stability Analysis Based on Lyapunov's Direct Method. **International Journal of Computers, Communications & Control** (Agora University Editing House - CCC Publications), vol. IV, no. 4, pp. 415-426, (journal.univagora.ro). ISSN 1841-9836, (E-ISSN 1841-9844)

**12.** Precup, R.-E., Preitl, St., Tar, J. K., **Tomescu, M. L.,** Takács, M., Korondi, P. and Baranyi, P. (2008): Fuzzy Control System Performance Enhancement by Iterative Learning Control. **IEEE Transactions on Industrial Electronics**, vol. 55, no. 9, pp. 3461-3475, (ieeexplore.ieee.org). (ISSN 1557-9948)

**13.** Precup, R.-E., Preitl, St., Rudas, I. J., **Tomescu, M. L.** and Tar, J. K. (2008): Design and Experiments for a Class of Fuzzy Controlled Servo Systems. **IEEE/ASME Transactions on Mechatronics**, vol. 13, no. 1, pp. 22-35, (ieeexplore.ieee.org). (ISSN 1083-4435)

**14.** **Tomescu, M.-L.,** Preitl, St., Precup, R.-E. and Tar, J. K. (2007): Stability Analysis Method for Fuzzy Control Systems Dedicated Controlling Nonlinear Processes. **Acta Polytechnica Hungarica** (Óbuda University), vol. 4, no. 3, pp. 127-141 (uni-obuda.hu/journal/). (ISSN 1785-8860).

**15.** Radu-Emil Precup, **Marius L. Tomescu**, Ştefan Preitl - Lorenz System Stabilization Using Fuzzy Controllers, International Journal of Computers, Communications & Control, Volume: II (2007), No: 3. pag. 279-287. ISSN 1841-9836.

**16.** Radu-Emil Precup, **Marius L. Tomescu**, Stefan Preitl, Jozsef K. Tar, Adrian Sebastian Paul - Stability Analysis Approach for Fuzzy Logic Control Systems with Mamdani Type Fuzzy Logic Controllers, Journal of Control Engineering and Applied Informatics, Vol 9, No 1 (2007), pag. 3-10. (ISSN 1454-8658)

**Phd. thesis**

**Titlul tezei de doctorat:** CONTRIBUŢII LA ANALIZA ŞI DEZVOLTAREA SISTEMELOR CU REGULATOARE FUZZY APLICATE ÎN CONDUCEREA PROCESELOR NELINIARE
**Instituţia:** Universitatea "Politehnica" din Timişoara.
**Editura:** Editura Politehnica, Seria 1: Automatică, Nr. 10, 2008. ISBN: 978-973-625-672-1. 157 pagini.
**Conducător ştiinţific:** prof.univ.dr.ing. Ştefan Preitl.
**Anul susţinerii tezei:** 2008.

**Books**

1. **Marius Tomescu** - Primii paşi în lumea calculatoarelor – Editura albastră 2001. Cluj-Napoca. 80 pagini. ISBN 973-650-019-5.

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3. Alexandru Cicortaş, **Marius Tomescu**, Vlad Hanciuţa - Tehnici de programare. Algoritmi – Editura Universităţii « Aurel Vlaicu » ARAD 2001. 141 pagini. ISBN 973-9361-68-4.

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8. Marius **Tomescu**, Arhitectura sistemelor de calcul , Editura Universităţii "Aurel Vlaicu" Arad, ISBN 978-973-752-512-3, 2010, pag. 109

9. **Marius Tomescu**, Sisteme expert, Editura Universităţii "Aurel Vlaicu" Arad, 2010, ISBN 978-973-752-517-8, pag.79

10. **Marius Tomescu**, Carmen Fifor, Programarea calculatoarelor - Introducere in C#, Ed. a 2-a, Editura Universităţii "Aurel Vlaicu" Arad, ISBN 978-973-752-511-6, 2010. pag. 166.


# Books chap.

Ştefan Preitl, Radu-Emil Precup, Marius-Lucian **Tomescu**, Mircea-Bogdan Radac, Emil M. Petriu, and Claudia-Adina Dragoş (2009): Model - Based Design Issues in Fuzzy Logic Control. in **Towards Intelligent Engineering and Information Technology** Series: Studies in Computational Intelligence , Vol. 243 Rudas, Imre J.; Fodor, János; Kacprzyk, Janusz (Eds.) **Publisher: Springer-Verlag Berlin Heidelberg 2009. Springer**; 1 edition (August 18, 2009) 2009, XIV, 736 p. 345 illus., Hardcover ISBN: 978-3-642-03736-8, http://www.springer.com/engineering/book/978-3-642-03736-8.

http://www.springerlink.com/content/58751588vl964602/


# Other papers

**1.** Precup, R.-E., **Tomescu, M.-L.,** Petriu, E. M. and Dragomir, L.-E. (2011): Stable fuzzy logic control of generalized van der Pol oscillator. **International Journal of Artificial Intelligence** (CESER Publications), vol. 7, no. A11, pp. 36-46 (www.ceser.in). (ISSN 0974-0635)

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**3.** Precup, R.-E., **Tomescu, M. L.,** Preitl, St. and Petriu, E. M. (2010): Fuzzy logic-based stabilization of a magnetic ball suspension system. **International Journal of Artificial Intelligence** (CESER Publications), vol. 5, no. A10, pp. 56-66 (www.ceser.in). (ISSN 0974-0635)

**4.** Precup, R.-E., **Tomescu, M. L.,** Preitl, St. and Petriu, E. M. (2009): Fuzzy Logic-based Stabilization of Nonlinear Time-varying Systems. **International Journal of Artificial Intelligence** (CESER Publications), vol. 3, no. A09, pp. 24-36 (www.ceser.in). (ISSN 0974-0635)

**5.** Precup, R.-E., **Tomescu, M. L**., Preitl, St. and Škrjanc, I. (2008): Stable Fuzzy Logic Control Solution for Lorenz Chaotic System Stabilization. **International Journal of Artificial Intelligence** (CESER Publications), vol. 1, no. A08, pp. 23-33 (www.ceser.in). (ISSN 0974-0635)

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**7.** Radu-Emil Precup, **Marius L. Tomescu**, Stefan Preitl, Jozsef K. Tar, Adrian Sebastian Paul - Stability Analysis Approach for Fuzzy Logic Control Systems with Mamdani Type Fuzzy Logic Controllers, Journal of Control Engineering and Applied Informatics, Vol 9, No 1 (2007), pag. 3-10. (ISSN 1454-8658)


## ISI conferences

**1. Marius-Lucian Tomescu**, Ghe. Petrov - A Stability Analysis Method for Nonlinear Systems with Fuzzy Logic Controller. Proc. 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, (SYNASC 2006), Sept 26-29 2006, Timişoara Romania, pag. 141-150, IEEE Press. ISBN 0-7695-2740-X.
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**5.** R.-E. Precup, M.-B. Radac, S. Preitl, **M.-L. Tomescu**, E. M. Petriu, A. S. Paul, IFT-Based PI-Fuzzy Controllers: Signal Processing and Implementation, Proceedings of 6th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2009), Milan, Italy, July 2-5, 2009, ISBN 978-989-8111-99-9, vol. 1 Intelligent Control Systems and Optimization, pp. 207-212.

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**Other conferences**

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**8.** Radu-Emil Precup, Marius L. **Tomescu**, Ştefan Preitl - Rule base modification of Takagi-Sugeno fuzzy logic controllers to guarantee system stability, Bulletins for applied & Computer mathematics (PAMM) Arad-Oradea 25-28 October 2008, pag. 113-120, ISSN 0133-3526.

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**10.** Marius **Tomescu** - Active Suspension Control Based on Fuzzy Systems. Proceedings of International Symposium. Research and Education in Innovation Era, „Aurel Vlaicu" University, Arad, 2006, pag. 229-236. ISBN 978-973-52-0108-1.

**11.** Marius-Lucian **Tomescu** - Fuzzy logic control of vehicle suspensions with dry friction nonlinearity. Proceedings of International Symposium. Research and Education in Innovation Era, „Aurel Vlaicu" University, Arad, 2006, pag. 237-244. ISBN 978-973-52-0108-1.

**12.** Marius-Lucian **Tomescu** - Some properties of fuzzy conjunction useful to fuzzy rules. Proceedings of SACI 2005 – 2rd Romanian-Hungarian Joint Symposium on Applied Computational Intelligence, Timişoara, Romania, May 5-7, 2005, pag. 169-176. ISBN 963-7154-39-6.

**13.** Marius-Lucian **Tomescu** - Some properties of fuzzy conjunction. SYNASC04, Timisoara, Romania 6th International Workshop, 26-30 September 2004. pag. 20-21. ISBN 973-661-441-7.

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**15. Marius-Lucian Tomescu** - Câteva proprietăţi ale modulului de fuzzificare**. Analele Universităţii „Aurel Vlaicu"** Arad, 2004, pag. 88-92. ISSN 1582-344X.

**16. Marius-Lucian Tomescu -** Proprietăţi importante ale conjuncţiei fuzzy. **Analele Universităţii „Aurel Vlaicu"** Arad, 2004, pag.170-175. ISSN 1582-344X.

**17.** Marius **Tomescu** - Properties of Fuzzy Disjunction of n-arity. SYNASC03, Timisoara, Romania 5th International Workshop, 1-4 October 2003. pag. 289-296. ISBN 973-661-104-3.

**18.** Coroban Laurenţiu, **Marius-Lucian Tomescu -** Rezolvarea ecuaţiei de tip Lyapunov cu ajutorul reţelelor neuronale. **Analele Universităţii "Aurel Vlaicu"** Arad, 2000, pag 25-32. ISSN 1582-344X.

**19.** Coroban Laurentiu, **Marius-Lucian Tomescu -** Teorema de structură pentru implicaţiile fuzzy. **Analele Universităţii "Aurel Vlaicu"** Arad, 2000, pag. 33-38. ISSN 1582-344X.

**20. Marius-Lucian Tomescu -** T-implicaţiile şi ST-implicaţiile fuzzy. **Analele Universităţii "Aurel Vlaicu" Arad,** 2000, pag. 175-178. ISSN 1582-344X.

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**22.** A. Cicortas, M-L. **Tomescu**, C. Gyiman, C. Burzo, L. Demsea - Distributed models of DES with time and priority. Bulletins for applied & Computer mathematics, PAMM, 1999, pag. 69-72. ISSN 0133-3526.

**23.** Marius-Lucian **Tomescu** - Fuzzy integral defined by t-norms and t-conorms. Bulletins for applied & Computer mathematics, PAMM, Budapest 1999, pag. 175-178. ISSN 0133-3526.

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**25. Marius-Lucian Tomescu,** Carmen Gyiman - Funcţii fuzzy. **Studia Universitatis,** Universitatea de Vest „Vasile Goldiş" Arad, seria A, Nr. 8, 1998, pag. 577-579. ISSN 1453-103X.

**26. Marius-Lucian Tomescu,** Carmen Gyiman - Generarea t-normelor şi a t-conormelor **- Studia Universitatis Universitatea de Vest „Vasile Goldiş" Arad,** seria A, Nr. 8, 1998, pag. 580-584. ISSN 1453-103X.

**27. Marius-Lucian Tomescu -** T-norme pentru mulţimi fuzzy**. Studia Universitatis, Universitatea de Vest „Vasile Goldiş" Arad,** seria A, Nr. 8, 1998, pag. 585-589. ISSN 1453-103X.

**28. Marius-Lucian Tomescu -** Reţele neuronale stohastice. **Studia Universitatis Universitatea de Vest „Vasile Goldiş" Arad,** seria A, Nr. 6, 1996, pag. 255-265. ISBN 973-578-207-3.

**29. Marius-Lucian Tomescu -** Reţele neuronale tridimensionale pentru rezolvarea ecuaţiilor matriciale. **Studia Universitatis, Universitatea de Vest „Vasile Goldiş" Arad,** seria A, Nr. 6, 1996, pag.266-274. ISBN 973-578-207-3.

**30.** Carmen Gyiman, **Marius-Lucian Tomescu -** Modele de reprezentare a cunoştinţelor fuzzy pentru roboti inteligenţi - **Sesiunea de comunicări ştiinţifice a Universităţii "Aurel Vlaicu" Arad, Ediţia a IV-a 1997, Analele Universităţii "Aurel Vlaicu" Arad,** pag. 44-48. ISBN 973-98366-2-6.

**31. Marius-Lucian Tomescu,** Carmen Gyiman - Fuzzy integrals defined by T-norm **- Sesiunea de comunicări ştiinţifice a Universităţii "Aurel Vlaicu" Arad, Ediţia a IV-a 1997, Analele Universităţii "Aurel Vlaicu" Arad,** pag. 167-171. ISBN 973-98366-1-8.

 

**Data**            **A. Prof. Marius L. Tomescu**
**11.02.2019**