

Lista de lucrări
dr.ing. Cirebea Claudiu Ioan

1. Lucrări științifice relevante

1. Aluței, A., Tătar, M.O., **Cirebea, C.**, - Model and test of a modular inspection robotic system, *Mechanika*, Nr.4(84), 2010, pp. 58-61, WOS:000282058500010, ISSN 1392 – 1207. (IF 1.144), (Q2).

2. Tătar, M.O., Aluței A., **Cirebea, C.**, - In Pipe Modular Robotic System for Moving Inside of Pipelines Part 1, The 5th International Conference on Robotics, Cluj-Napoca, Romania, September 23-25, 2010, lucrare publicata in *Solid State Phenomena*, Vol. 166 - 167, 2010, pp. 403-408, Vol. Robotics and Automation Systems, Trans Tech Publications, Switzerland, ISBN -13 978-3-908451-88-4, doi:10.4028/www.scientific.net/SSP.166-167.403, WOS:000289532000063. [SCOPUS], [Web of Science]

3. **Cirebea, C.**, Tătar, M.O., Mătieș, V., - The Model and Simulation of a Mini Robot with Active Structure Adaptable to the Pipe Diameter, *Archive of Mechanical Engineering*, Volume LVII, Nr. 4 / 2010 pp. 383-391, doi 10.2478/v10180-010-0021-z, WOS:000217179400004, ISSN 0004-0738. [VERSITA], [SCOPUS], [Web of Science]

4. Tătar, M.O., **Cirebea, C.**, Mândru, D., - Structures of the Omnidirectional Robots with Swedish Wheels, The 8th International Conference Mechatronic Systems and Materials 2012, MSM'2012, July 8-13, Bialystok, Poland, lucrare publicata in *Solid State Phenomena, Vol. 198 (Mechatronic Systems and Materials IV), 2013*, pp. 132-137, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03785-637-6, WOS:000319299900022. [SCOPUS], [Web of Science].

5. Tătar, M. O., **Cirebea, C.**, - Mobile minirobot with hybrid locomotion, *The 12th International Conference Mechatronic Systems and Materials July 3-8, Bialystok Poland, 2016*, lucrare publicata in: *Solid State Phenomena*, in Vol. 260, (Vol. Mechatronic Systems and Materials VIII, Edited by Zdzisław Gosiewski and Zbigniew Kulesza) pp. 51-58, 2017, ISSN: 1012-0394, DOI: 10.4028/www.scientific.net/SSP.260.51, <http://www.ttp.net/978-3-0357-1167-7.html> [SCOPUS].

Nota: Lucrările științifice relevante au fost extrase și se regasesc in listele de mai jos unde au fost marcate folosind culoarea albastra.

2. Teza de doctorat

„Cercetari privind robotii mobili pentru inspectie si explorare” conducător științific: Prof. dr. ing. Vistrian Mătieș, Universitatea Tehnică din Cluj Napoca, Susținere publică: 5 octombrie 2012.

3. Brevete de invenție

1. Tătar, M.O., Aluței, A., **Cirebea, C.**, - *Robot modular autopropulsat*, nr. 127090/ 30 01 2013.

4. Capitole în cărți

1. Tătar, M.O., Cirebea, C., Aluței, A., - *The modular robotic system for in-pipe inspection*, The 3rd European Conference on Mechanism Science EUCOMES 2010, 14-18 September 2010, Technical University of Cluj-Napoca, Romania, lucrare publicata în: *New Trends in Mechanisms Science: Analysis and Design, Mechanisms and Machine Science*, Vol. 5, Part 10, D. Pislă et al. eds., pp. 583-591, Springer GmbH, 2010, DOI 10.1007/978-90-481-9689-067, WOS:000395597100067, ISBN 978-90-481-9688-3. [SCOPUS], [SpringerLink], [Web of Science]

2. Tătar, M.O., Cirebea, C. Aluței, A., Mândru, D., - *Minirobots with adaptable structure for in pipe inspection*, MECHATRONIC SYSTEMS AND MATERIAL 2010, SELECTED PAPERS, Eds. E. Macha, R. Pawliczek, Opole University of Technology, Opole, Polonia, 2011, ISBN 978-83-62736-16-4, pp. 229-241.

4.1. Articole în reviste cotate ISI

1. Aluței, A., Tătar, M.O., Cirebea, C., - Model and test of a modular inspection robotic system, *Mechanika*, Nr. 4(84), 2010, pp. 58-61, WOS:000282058500010, ISSN 1392 – 1207. (IF 1.144), (Q2).

4.2. Articole în reviste cotate BDI

1. Aluței, A., Mătieș, V., Tătar, M.O., Cirebea, C., - Testing of a mechatronic inspection system's prototype, *Romanian Review Precision Mechatronics, Optics & Mechatronics*, nr. 39 / 2011, pag. 153-156, ISSN 1584-5982. [SCOPUS]

2. Popovici, V.C., Tătar, M.O., Cirebea, C., - Development of an omnidirectional robot with mecanum wheels, *Robotica & Management*, 2012, ISSN 1453-2069, Vol. 17, No. 1, June 2012, pag. 37 – 40. [IndexCopernicus]

3. Szelka, T., Tătar, M.O., Cirebea, C., - Design and implementation of an amphibian robot with interchangeable locomotive system, *Robotica & Management*, 2012, ISSN 1453-2069, Vol. 17, No. 1, June 2012, pag. 41 – 46. [IndexCopernicus]

4. Cirebea, C. I., Tătar, M.O., - Development of a modular robotic platform, *Revista Robotica & Management*, ISSN 1453 2069, Vol. 19, nr. 2, 2014, pp. 17-22, [Index Copernicus].

5. Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

5.1 Articole indexate ISI (<http://www.webofknowledge.com/>)

1. Tătar, M.O., Aluței, A., Mândru, D., Cirebea, C., - In-pipe inspection minirobots with adaptable structure, *Annals of DAAAM for 2009*, pp. 0321-0323 & *Proceedings of the 20th International DAAAM Symposium*, Vol. 20, No.1, ISBN 978-3-901509-70-4, ISSN 1726-9679, pp. 161, Editor Branko Katalinic, Published by DAAAM International, Vienna, Austria, 2009, WOS:000282335600161. [SCOPUS], [Web of Science]

2. Tătar, M.O., Aluței A., Cirebea, C., - In Pipe Modular Robotic System for Moving Inside of Pipelines Part 1, The 5th International Conference on Robotics, Cluj-Napoca, Romania, September 23-25, 2010, lucrare publicata in *Solid State Phenomena*, Vol. 166 - 167, 2010, pp. 403-408, Vol. Robotics and Automation Systems, Trans Tech Publications, Switzerland, ISBN

-13 978-3-908451-88-4, doi:10.4028/www.scientific.net/SSP.166-167.403, WOS:000289532000063. [SCOPUS], [Web of Science]

3. Aluței, A., Tătar, M.O., Cirebea, C., - In Pipe Modular Robotic System for Moving Inside of Pipelines Part 2, The 5th International Conference on Robotics, Cluj-Napoca, Romania, September 23-25, 2010, lucrare publicata in *Solid State Phenomena*, Vol. 166 - 167, 2010, pp. 409-414, Vol. Robotics and Automation Systems, Trans Tech Publications, Switzerland, ISBN - 13 978-3-908451-88-4, doi:10.4028/www.scientific.net/SSP.166-167.409, WOS:000289532000064. [SCOPUS], [Web of Science]

4. Tătar, M.O., Cirebea, C., Aluței, A., Mândru, D., - The Design of Adaptable Indoor Pipeline Inspection Robots, *Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2010)*, Theta 17, May 28-30, 2010, Cluj-Napoca, pp. 325-329, WOS:000419281500008, ISBN 978-1-4244-6722-8. [IEEEExplore], [SCOPUS], [Web of Science].

5. Cirebea, C., Tătar, M.O., Mătieș, V., - The Model and Simulation of a Mini Robot with Active Structure Adaptable to the Pipe Diameter, *Archive of Mechanical Engineering*, Volumul LVII, Nr. 4 / 2010 pp. 383-391, doi 10.2478/v10180-010-0021-z, WOS:000217179400004, ISSN 0004-0738. [VERSITA], [SCOPUS], [Web of Science]

6. Tătar, M.O., Cirebea, C., Mândru, D., - The Development of an In-Pipe Minirobot for Various Pipe Sizes, *2012 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2012)*, May 24-27, 2012, Cluj-Napoca, pp. 443 - 448, WOS:000400227100081, ISBN 978-1-4673-0703-1. [SCOPUS], [IEEEExplore], [Web of Science].

7. Tătar, M.O., Cirebea, C., Mândru, D., Chetran, B., - Synchronous Drive Omnidirectional Minirobot, MTM & Robotics 2012- The Joint International Conference of the XI International Conference on Mechanisms and Mechanical Transmissions (MTM) and the International Conference on Robotics (Robotics'12), Clermont-Ferrand, France, June 6-8, 2012, lucrare publicata in *Applied Mechanics and Materials*, Vol. 162 (2012), pp. 294-301, Trans Tech Publications, Switzerland, ISBN- 13: 978-3-03785-395-5, doi:10.4028/www.scientific.net/AMM.162.294, WOS:000309782300034. [SCOPUS], [Web of Science].

8. Tătar, M.O., Cirebea, C., Mândru, D., - Structures of the Omnidirectional Robots with Swedish Wheels, The 8th International Conference Mechatronic Systems and Materials 2012, MSM'2012, July 8-13, Bialystok, Poland. lucrare publicata in *Solid State Phenomena, Vol. 198 (Mechatronic Systems and Materials IV)*, 2013, pp. 132-137, Trans Tech Publications, Switzerland, ISBN-13: 978-3-03785-637-6, WOS:000319299900022. [SCOPUS], [Web of Science].

5.2 Articole indexate BDI (SCOPUS, IEEEExplore, etc)

1. Tătar, M. O., Cirebea, C., - Mobile minirobot with hybrid locomotion, *The 12th International Conference Mechatronic Systems and Materials* July 3-8, Bialystok Poland, 2016, lucrare publicata in: *Solid State Phenomena*, in Vol. 260, (Vol. Mechatronic Systems and Materials VIII, Edited by Zdzisław Gosiewski and Zbigniew Kulesza) pp. 51-58, 2017, ISSN: 1012-0394, DOI: 10.4028/www.scientific.net/SSP.260.51, <http://www.ttp.net/978-3-0357-1167-7.html> [SCOPUS].

2. Tătar, M.O., Cirebea C, I. - Modular reconfigurable robots, *The 1^{2th} IFToMM International Symposium on Science of Mechanisms and Machines SYROM'2017*, Iasi, Romania, November 02-03, 2017, In: Doroftei I., Oprisan C., Pisla D., Lovasz E. (eds) *New Advances in Mechanism and Machine Science. Mechanisms and Machine Science*, vol 57. pp. 291-299, 2018, Springer, Cham, DOI: https://doi.org/10.1007/978-3-319-79111-1_29, [SpringerLink], [SCOPUS].

5.3 Articole publicate în volumele unor manifestări științifice internaționale recunoscute din străinătate

1. **Cirebea, C.** Tătar, M.O., Mătieș, V., - The model and simulation of a mini robot with adaptable active structure to the pipe diameter, *Proceedings of the 6th International Conference Mechatronic Systems and Materials, MSM 2010*, Opole, Poland, July 2010, abstract, pp. 51-52, ISBN 978-83-60691-78-6.
2. Tătar, M.O., **Cirebea, C.**, Aluței, A., Mândru, D., - Driving modules with adaptable structure for in pipe inspection modular robotic systems, *Proceedings of the 6th International Conference Mechatronic Systems and Materials, MSM 2010*, Opole, Poland, July 2010, abstract pp. 193-194, ISBN 978-83-60691-78-6.
3. Tătar, M.O., **Cirebea, C.**, Aluței, A., Mătieș, V., - In-pipe inspection microrobot with adaptable structure - *The 7th International Conference Mechatronic Systems and Materials, MSM 2011*, 7 - 9 July, 2011, Kaunas, Lithuania, ISSN 1822-8283.
4. Tătar, M.O., **Cirebea, C.**, Mândru, D., - Structures of the Omnidirectional Robots with Swedish Wheels, *The 8th International Conference Mechatronic Systems and Materials 2012, MSM'2012*, July 8-13, Bialystok, Poland, 6 pp.

5.4 Articole publicate în volumele unor manifestări științifice internaționale recunoscute din țară

1. **Cirebea, C.**, Tătar, M.O., Aluței, A., - Modular microrobotic system for inspection and exploration, *The 3rd International Conference on "Computational Mechanics and Virtual Engineering" COMEC 2009*, 29 – 30 October 2009, pp. 927-932, Brasov, Romania, ISBN 978-973-598-572-1.
2. **Cirebea, C.**, Tătar, M.O., Aluței, A., - Modular microrobotic system for inspection and exploration, *The 3rd International Conference on International Conference "Computational Mechanics and Virtual Engineering" COMEC 2009*, 29 – 30 October 2009, pp. 927-932, Brasov, Romania, ISBN 978-973-598-572-1.
3. Aluței, A., **Cirebea, C.**, Tătar, M.O., Mătieș, V., - Studies regarding omnidirectional mobile robots, *The 3rd International Conference on International Conference "Computational Mechanics and Virtual Engineering" COMEC 2009*, 29 – 30 October 2009, pp. 758-764, Brasov, Romania, ISBN 978-973-598-572-1.
4. **Cirebea, C.** Donca, R., Tătar, M.O., Aluței, A., - Rapid control prototyping for an in-pipe inspection robot, *Poster Sessions Workshop IOHIS – Interoperability in healthcare information systems 2010 IEEE-TTTC International Conference on Automation, Quality and Testing Robotics, AQTR 2010 (THETA 17)*, May 28-30, 2010, ISBN 978-973-662-562-6, pp.148-152, Cluj-Napoca, Romania.
5. Tătar, M.O., **Cirebea, C.**, Aluței, A., Mândru, D., - Driving modules with adaptable structure for in pipe inspection, *The 10th International Conference on Mechatronics and Precision Engineering COMEFIM 10*, May 19 – 21, 2011, Bucuresti, lucrare publicata in revista Mecatronica, pag. 33-39, ISSN 1583-7653.

6. Alte articole

6.1 Articole/studii publicate în buletine științifice / reviste recunoscute CNCSIS

1. Cirebea C., **Tătar, O.**, - Platformă mecatronică pentru studiul aplicațiilor cu roboți mobili hexapozi, *Lucrările Conferinței Naționale de Educație Tehnologică și Tehnologii Educaționale CNETTE 2009*, Vol. 1, pag. 229- 236, Editura Todesco, Cluj-Napoca, 2009, ISSN 2066-446X.

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dr.in i rebeaClaudiu Ioan