

1) Lista de lucrari stiintifice:

1. Dragomir T.L., **Codrean A.**, Ceregan V., "On an elementary problem of modeling dead time systems", Journal of Electrical Engineering, Vol. 9, No.2, 2009. (INSPEC)
2. Dragomir T.L., **Codrean A.**, Ceregan V., "The Influence of Omitting the Prehistory on the Accuracy of Modeling Dead Time Systems", 5th International Symposium on Applied Computational Intelligence and Informatics (SACI), 2009. (IEEE Xplore, ISI)
3. **Codrean A.**, Ceregan V., Dragomir T.L., Korodi A., "Interpolative frequency characteristics generators for the Vestibular Nucleus Activity", The International MultiConference of Engineers and Computer Scientists (IMECS), 2010. (ISI, Scopus)
4. Dragomir T.L., **Codrean A.**, Ceregan V., Dale S., "Dead Time Compensation for Interpolative-type Control Systems", 4th International Symposium On Computational Intelligence And Intelligent Informatics (ISCIII), 2009. (IEEE Xplore, ISI).
5. Stefan O., Dragomir T.L., **Codrean A.**, Silea I., "Issues of Identifying, Estimating and Using Delay Times in Telecontrol Systems Based on TCP/IP Networks ", The 2nd IFAC Symposium on Telematics Applications (TA), 2010. (IFAC-PapersOnLine, Scopus)
6. **Codrean A.**, Korodi A., Dragomir T.L., Ceregan V., "Modeling the Vestibular Nucleus", Intelligent Control and Computer Engineering, Lecture Notes in Electrical Engineering, Vol. 70, 2011. (SpringerLink, Scopus)
7. **Codrean A.**, Korodi A., Dragomir T.-L., Kovács L., "Up to date issues on modeling the nervous control of the cardiovascular system on short-term," 18th IFAC World Congress, 2011. (IFAC-PapersOnLine).
8. Stefan O., **Codrean A.**, Dragomir T.-L., "A Nonlinear State Space Model of Network Transmissions in a Network Control System", Journal of Control Engineering and Applied Informatics (CEAI), Vol. 13, no. 4, 2011, pp. 58-63. (ISI, Scopus)
9. **Codrean A.**, Korodi A., Jivet I., Dragomir T.-L., "Developing a Lumped Model for the Vestibular Receptors", International Conference on Advancements of Medicine and Health Care through Technology (Meditech), IFMBE Proceedings, Vol. 36 Part 4, 2011. (SpringerLink)
10. Stefan O., **Codrean A.**, Dragomir T.-L., Silea I., "Time delay and information loss compensation in a network control system for a DC motor", 6th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI), 2011(IEEE Xplore, Scopus);
11. **Codrean A.**, Stefan O., Dragomir T.-L., "Design, Analysis and Validation of an Observer-based Delay Compensation Structure for a Network Control System", 20th Mediterranean Conference on Control and Automation (MED), 2012. (IEEE Xplore)
12. Korodi A., **Codrean A.**, Timofte A., Dragomir T.-L., "Cardiovascular model with human elastance function and valve dynamics ", 20th Mediterranean Conference on Control and Automation (MED), 2012. (IEEE Xplore)
13. Stefan O., **Codrean A.**, Dragomir T.-L., "Design and Analysis of a Network Control Structure with a Switched PD Compensator", 17th International Conference on Methods and Models in Automation and Robotics (MMAR), 2012. (IEEE Xplore, ISI).
14. Stefan O., **Codrean A.**, Dragomir T.-L., "Stability Analysis and Control Synthesis for a Network Control System Using a Nonlinear Network Transmission Model - a Switched

- System Approach”, IEEE Multi-Conference on Systems and Control (MSC), 2012. (IEEE Xplore, ISI).
15. Stefan O., **Codrean A.**, Dragomir T.-L., “A Network Control Structure with a Switched PD Delay Compensator and a Nonlinear Network Model”, American Control Conference (ACC), 2013. (IEEE Xplore, ISI).
 16. **Codrean A.**, Dragomir T.-L., “Averaged modeling of the cardiovascular system”, IEEE 52nd Annual Conference on Decision and Control (CDC), 2013. (IEEE Xplore, ISI)
 17. **Codrean A.**, Dragomir T.-L., “Period dependent averaging of a class of pulse modulated systems. Application to the cardiovascular system”, Journal of Control Engineering and Applied Informatics (CEAI), vol. 17, no. 1, 2015. (ISI, Scopus)
 18. **Codrean A.**, Dragomir T.-L., “Delay effect on cardiovascular regulation - a systems analysis approach”, European Control Conference (ECC), 2015 (IEEE Xplore, ISI).
 19. **Codrean A.**, Dragomir T.-L., “Stability analysis of cardiovascular regulation”, 23rd Mediterranean Conference on Control and Automation (MED), 2015 (IEEE Xplore).
 20. Stefan O., Dragomir T.-L., **Codrean A.**, „Observer-based delay compensation for networked control systems—Analysis and synthesis”. 21st International Conference on Automation and Computing (ICAC), 2015, (IEEE Xplore, ISI)
 21. Stefan O., **Codrean A.**, Dragomir T.-L., “On the Robustness of Networked Control Systems with Quality of Service Adaptation Co-design”, *Journal of Control Engineering and Applied Informatics* (CEAI), vol. 18, no. 4, 2016.(ISI).

2) Lista de lucrari didactice (de laborator)*:

1. Lucrarea nr. 1: “State space models”
2. Lucrarea nr. 2: “Frequency response”
3. Lucrarea nr. 3: “State feedback”

*capitole din Indrumatorul de laborator in pregatire la disciplina Teoria Sistemelor.

