

LIST OF PAPERS

a). Relevant papers

1. Donciu C., *Video Assisting System for Garment Manufacturing Technological Flow*, *Fibres & Textiles in Eastern Europe*, vol. 21, issue 5, pp. 135-140 SEP-OCT 2013;
2. Donciu C., Ardeleanu A.S., Temneanu M., *Multi-feature load detection algorithm*, *Advanced Materials Research*, vol. 772, pp. 448-454, 2013;
3. Ardeleanu A. S., Donciu C., *Nonintrusive Load Detection Algorithm Based on Variations in Power Consumption*, *Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering (EPE 2012)*, pp. 309-313, 2012;
4. Ardeleanu A. S., Donciu C., *Frequency Estimation Based on Variable Frequency Resolution Concept*, *Proceedings of The 2012 International Conference and Exposition on Electrical and Power Engineering (EPE 2012)*, pp. 792-797, 2012;
5. Donciu C., Temneanu M., *Integrated visual-smart inspection system for the textile fabrics developed by image virtual processing methods*, *Textile Industry*, vol. 60, issue 3, pp. 134-145, 2009;
6. Donciu C., Temneanu M., *Algorithm for video-intelligent inspection of the textile materials imprint with repetitive pattern*, *Textile Industry*, vol. 60, issue 6, pp. 326-333, 2009;
7. Costea O., Donciu C., *Labview based analog and digital instrument's automated calibration*, *Management of Technological Changes*, vol. 1, pp. 473-476, 2009;
8. Donciu C., Costea O., *Intelligent system for precision irrigation of greenhouse vegetables*, *Management of Technological Changes*, vol. 2, pp. 669-672, 2009;
9. Donciu C., Temneanu M., Costea O., *Traffic light's control through an intelligent video system*, *Management of Technological Changes*, vol. 2, pp. 673-676, 2009;
10. Donciu C., Temneanu M., *E-Learning System for Students on Electrical Engineering*, *International Review of Electrical Engineering-IREE*, vol. 3, issue 6, pp. 1087-1096, 2008;

b). PhD Thesis

Theoretical and experimental studies on digital processing of metrological signal

c) Patents

Scarlat R.V., Donciu C., Visileanu E., Carpus E., *Tri-element electrostatic discharge electrode*, Patent application filled with OSIM, no. A/00897/21.11.2014

d) Books and chapters in books

1. Donciu C. Ardeleanu A., *Video monitoring systems. Course*, Publishing house PIM, 2014, ISBN:978-606-13-2203-9, 124 pages;
2. Donciu C., Temneanu M., *We measure with Codrin Donciu and Marinel Temneanu*, Publishing house PIM, 2014, ISBN: 978-606-13-2207-7, 160 pages;
3. Donciu C., *Video monitoring systems. Laboratory*, Publishing house PIM, 82 pp., 2013, ISBN: 978-606-13-1477-5., 81 pages;
4. Ardeleanu A.S., Donciu C., *Electrical consumers' signature*, Publishing house PIM, 2014, ISBN 978-606-13-1699-1, 244 pages;
5. Blaga P., Minciuc E., Temneanu M., Donciu C., Ionel I., Lelea D., Figură F., *Measurement of electric and nonelectric measures*, Publishing house Academy of Scientist in Romania, 2011, ISBN: 978-606-8371-17-7, 144 pages;
6. Donciu C., *Video systems*, Publishing house PIM, 2014, ISBN: 978-606-13-1700-4, 115 pages;
7. Donciu C., *Discrete measurements of signals*, Publishing house Venus, Iași, 2006, ISBN:973-756-034-5, 145 pages
8. Donciu C., Fosalau C., Temneanu M., *Remote transmission techniques of data in remote technical education*, Publishing house Venus, Iași, 2006, ISBN: 973-756-009-4, 158 pages;

9. Donciu C., Lunca E., Cretu M., Modern measurement systems. Distributed measurements, Publishing house Politehniun Iași, 2005, ISBN: 973-621-105-3, 121 pages;
10. Branzila M, Donciu C., *Advances in Biomedical Sensing, Measurements, Instrumentation and Systems*, Chapter: *Distributed System Architecture Using a Prototype Web E-Nose*, Springer Berlin Heidelberg, pp. 1-15, 2010, ISBN 978-3-642-05166-1
11. Donciu C., Baraboi B., Expert systems to ensure the total quality in the industry of electrical materials and equipments, chapter: Interpretation methods of information from alias area and Artificial intelligence techniques in gas analysis, Publishing house Gh. Asachi Iași, 2002, ISBN 973-8292-29-8
12. Donciu C., Innovative trends in electronic instrumentation and measurements, chapter: Extreme methods of interpretation the signals' frequency in virtual instrumentation, Publishing house Sedcom Libris Iași, 2001, ISBN 973-8028-76-0

e). Journal papers in extenso

1. Carpus E., Scarlat R., Bonfert D., Ene A., Mihai C., Visileanu E., Donciu C., Popa A., Enache G., Investigation of two-layer knitted structures with conductive fibres content, *Textile Industry*, vol. 65, issue 3, pp. 145-152, 2014;
2. Sălceanu M., Donciu C., Vataman R., Use of radiodensitometry in objective assessment of periapical healing processes, *Acta electrotehnica*, vol. 50, no. 1, pp. 63-66, 2009;
3. Donciu C., Samoilă A., Informatic system of interactive training for virtual laboratory type applications (I). L3- The Configuration of an Acquisition Instrument, *Acta Electrotehnica*, vol. 49, no. 1, pp. 73 -76, 2008;
4. Donciu C., Samoilă A., Informatic system of interactive training for virtual laboratory type applications (I). L4 - CSPI commands communication, *Acta Electrotehnica*, vol. 49, no. 1, pp. 77- 80, 2008;
5. Temneanu C., Donciu C., Dosofoi C., Costea O., Informatic system of interactive training for virtual laboratory type applications (I). L5-Common Gate Interface (CGI) in Labview environment, *Acta Electrotehnica*, vol. 49, no. 2, pp. 222-227, 2008;
6. Foșalău C., Donciu C., Samoilă A., Virtual Instrumentation-an Easy Solution for Industrial Video Inspection, *Acta Electrotehnica*, vol. 48, no. 2, pp. 144-150, 2007;
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9. Branzila M., Alexandru C., Donciu C; Trandabat A., Schreiner C., Virtual environmental measurement center based on remote instrumentation, *Environmental Engineering and Management Journal*, vol. 6, issue 6, pp. 517-520, 2007;
10. Trandabat A., Branzila M., Donciu C., Pislaru M., Ciobanu R. C., *Using GPS technology and distributed measurement system for air quality mapping of rezidential area*, *Environmental Engineering and Management Journal*, vol. 6, issue 6, pp. 545-548, 2007;
11. Temneanu M., Donciu C., Dosofoi C., Informatic system of interactive training for virtual laboratory type applications(I), L2- Ferrite magnetic characterization, *Acta Electrotehnica*, vol. 48, no. 3, pp. 218-222, 2007;
12. Donciu C., Costea O., Informatic system of interactive training for virtual laboratory type applications (I), L1- The study of temperature transducers using the FieldPoint Module, *Acta Electrotehnica*, vol. 48, no. 3, pp. 213-217, 2007;
13. Donciu C., Temneanu M., Brinzila M., *Sustainable irrigation based on intelligent optimization of nutrients applications*, *Environmental Engineering and Management Journal*, vol. 6, issue 6, pp. 537-540, 2007;
14. Donciu C., Temneanu M., Brinzila M., *Urban traffic pollution reduction using an intelligent video semaphoring system*, *Environmental Engineering and Management Journal*, vol. 6, issue 6, pp. 563-566, 2007;
15. Luncă E., Donciu C., Sălceanu A., David V., Virtual monitoring system of electromagnetic field, *Virtual Instrumentation Journal*, no. 1 (25), pp. 21-24, 2005;
16. Luncă E., Donciu C., Brînzilă M., Sălceanu A., LabVIEW server-client applications (II). DataSocket and VI Server, *Virtual Instrumentation Journal*, no. 2 (26), pp. 27-32, 2005;
17. Donciu C., Luncă E., Brînzilă M., Crețu M., Use of sound card for low frequency impedance measurements, *Virtual Instrumentation Journal*, no. 2 (26), pp. 33-34, 2005;

18. Donciu C., Brînzilă M., Luncă E., Crețu M., Use of temperature and humidity sensor SHT11 in virtual laboratory type applications, *Virtual Instrumentation Journal*, no. 2 (26), pp. 35-37, 2005;
19. Donciu C., Luncă E., Brînzilă M., Crețu M., Methods for determining the signals' phase shift in the discrete domain, *Virtual Instrumentation Journal*, no. 1 (25), pp. 9-12, 2005;
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21. Cretu E., Lunca E., Donciu C., Virtual hygrometer, *Virtual Instrumentation Journal RIV*, year 5, vol. 5, no. 3 (19), pp 88-90, 2003.
22. Lunca E., Donciu C., Cretu E., Audio-video communication in virtual instrumentation using TCP/IP protocol, *Virtual Instrumentation Journal RIV*, year 5, vol. 5, no. 2 (18), pp. 51-53, 2003;
23. Donciu C., Trandabăț A., Crețu M., TCP-IP servers for remote data transmission in LabVIEW, *Virtual Instrumentation Journal*, year 5, vol. 5, no. 3 (18), pp. 83-86, 2002;
24. Trandabăț A., Donciu C., Ciobanu R., Virtual laboratory and virtual instrumentation - a response for future education and industry needs, *Virtual Instrumentation Journal*, year 5, vol. 5, no. 2(18), pp. 47-50, 2003;
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26. Donciu C., Cretu M., Baraboi B., Fosalau C., Analysis of signals sampled at frequencies below Shannon limit, *Virtual Instrumentation Journal*, no.1, pp.7-8, 2001;
27. Donciu C., Cretu M., Fosalau C., Verifying compliance of Shannon's theorem for acquisition of unknown signals, *Virtual Instrumentation Journal*, no.2, pp. 39-41, 2001;
28. Donciu C., Fosalau C., Cretu M., Bidirectional remote data transfer module, *Virtual Instrumentation Journal*, vol. 4, no. 3, pp. 68–70, 2001;
29. Baraboi B., Cretu M., Fosalau C., Donciu C., LabVIEW in gas analysis, *Virtual Instrumentation Journal*, no.4, pp. 101-105, 2000;
30. Donciu C., Cretu M., Fosalau C., Baraboi B., Soundcard in signals' acquisition, processing and generation, *Virtual Instrumentation Journal*, no.4, pp. 99-100, 2000;

f) Papers in extenso published at conferences

1. Donciu C., 3D Conductive Textile Shields, *Modern Technologies in Industrial Engineering*, Book Series: Advanced Materials Research, vol. 837, pp. 340-345, 2014;
2. Donciu C., ESD Garments with Bilayer Structure, *Modern Technologies in Industrial Engineering*, Book Series: Advanced Materials Research, vol. 837, pp. 682-687, 2014;
3. Donciu C., Estimating ESD Properties of Fabrics Based on Correlation between Dielectric Losses and Charge Decay Time, *Modern Technologies in Industrial Engineering*, Book Series: Advanced Materials Research, vol. 837, pp. 688-693, 2014;
4. Donciu C., Core Conductive Yarn Based Integral Knitted ESD Garments Part I. Metallic Core Conductive Yarns Investigation, *Advanced Materials Research*, vol. 772, pp. 467-473, 2013;
5. Donciu C., Core Conductive Yarn Based Integral Knitted ESD Garments Part II. Carbon Composite Yarns Investigation, *Advanced Materials Research*, vol. 772, pp. 474-479, 2013;
6. Ardeleanu A. S., Cretu M., Donciu C. Electrical Signature - A Means of Improving the Management of Electricity Consumers, *Management of Technological Changes*, Book 2, pp. 553-556, 2011;
7. Verejan A., Temneanu M., Ardeleanu A.S., Donciu C., Pattern matching algorithms in computer vision applications, *Proceedings of the 6th International Conference on Electrical and Power Engineering*, vol. 2, pp. 309-312, 2010;
8. Ardeleanu A.S., Donciu C., Verejan A., Temneanu M., Edge detection methods in computer vision applications, *Proceedings of the 6th International Conference on Electrical and Power Engineering*, vol. 2, pp. 312-315, 2010;
9. Ardeleanu A.S., Donciu C., Cretu M., Power Signature – a problem of detecting electrical devices, *Proceedings of the 6th International Conference on Electrical and Power Engineering*, vol. 2, pp. 336-339, 2010;
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- 11.** Costea O., Cretu M., Donciu C., Video intelligent system for real-time inspection of textile materials and/or painting treatment in the presence of disturbing elements from industrial environment, *Management of Technological Changes*, vol. 2, pp. 661-664, 2009;
- 12.** Donciu C., Costea O., Temneanu M., New Concept in Remote Laboratory: High-speed Multitask System Developed as Online Reconfigurable Platform, *International Conference on Information Communication Technologies in Education*, Corfu, Greece, pp. 712–718, 9-11 July 2009;
- 13.** Donciu C., Costea O., Temneanu M., Damian R., Branzila M., New prototype architecture for automated irrigation based on power line communications, *Grid Enabled Remote Instrumentation*, Book Series: Signals and Communication Technology, pp. 499-509, 2009;
- 14.** Cretu M., Costea O., Temneanu C., Donciu C., Vision based Intelligent Semaphoring System, *16th IMEKO TC4 International Symposium, Exploring New Frontiers of Instrumentation and Methods for Electrical and Electronic Measurements*, Florence, Italy, pp. 391-395, 22-24 September 2008;
- 15.** Donciu C., Costea O., 3D e-Shadow dental color matching intelligent system, *16th IMEKO TC4 International Symposium, Exploring New Frontiers of Instrumentation and Methods for Electrical and Electronic Measurements*, Florence, Italy, pp. 873-876, 22-24 September 2008;
- 16.** Donciu C., Temneanu M., Dosoftei C., New multitask prototype architecture for virtual laboratory, *16th IMEKO TC4 International Symposium, Exploring New Frontiers of Instrumentation and Methods for Electrical and Electronic Measurements*, Florence, Italy, pp. 706-710, 22-24 September 2008;
- 17.** Branzila M.C., Donciu C., Alexandru C.I., Schreiner C., From real world experiment to virtual laboratory and next generation grid, *16th IMEKO TC4 International Symposium, Exploring New Frontiers of Instrumentation and Methods for Electrical and Electronic Measurements*, Florence, Italy, pp. 717-722, 22-24 September 2008;
- 18.** Donciu C., Dosoftei C., New informatic system of interactive training for virtual laboratory type applications, *Proceedings of the 11th International Conference on Optimization of Electrical and Electronic Equipment*, vol. 4, pp. 163-168, 2008;
- 19.** Costea O., Donciu C., Samoila A., Automated Video System Instruments Test and Calibration, *5th International Conference on Electrical and Power Engineering (EPE 2008)*, Iasi, Romania, pp. 351-356, 3-5 October 2008.
- 20.** Milici M., Milici L. D., Temneanu M., Donciu C., A building management system for temperature control, *International Symposium on Electrical Engineering and Energy converters (ELS 2007)*, Suceava, Romania, vol. 1, pp. 181-185, 27-28 September 2007;
- 21.** Milici M., Cretu M., Milici L. D., Donciu C., Virtual Instrument Application for the Modeling and Studying of Data Acquisition System's Working, *4th International Conference in Remote Engineering and Virtual Instrumentation (REV 2007)*, Porto, Portugal, pp. 1-4, 23-27 July 2007;
- 22.** Temneanu M., Ciobanu R., Donciu C., Amorphous wire based stress sensor working with low carrier frequency, *IMEKO 20th TC3, 3rd TC16 and 1st TC22 International Conference, Cultivating metrological knowledge*, Merida, Mexico, pp. 171-176, 27-30 November 2007.
- 23.** Nita L., Dosoftei C., Donciu C., Sarmasanu C., Informatic system of interactive training for virtual laboratory type applications, *15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing*, Iasi, Romania vol. 2, pp. 717-720, 18-22 September 2007;
- 24.** Dosoftei C., Donciu C., Cretu M., Data acquisition system for quasidigital sensors, *15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing*, Iasi, Romania, vol. 2, pp. 592-595, 18-22 September 2007;
- 25.** Donciu C., Costea O., Seliman C., Environmental station for meteo measurements, *1st IMEKO TC 19 International Symposium on Measurement and Instrumentation for Environmental Monitoring*, Iasi, Romania, pp. 103-107, September 2007;
- 26.** Donciu C., Temneanu M., Samoila A., Automated video system for measurement instrument test and calibration, *15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing*, Iasi, Romania, vol. 1, pp. 166-169, 18-22 September 2007;
- 27.** Donciu C., Temneanu M., Samoila A., New prototype architecture for vision automated inspection, *15th IMEKO TC4 Symposium on Novelties in Electrical Measurements and Instrumentation in Parallel with the 12th Workshop on ADC Modelling and Testing*, Iasi, Romania, vol. 2, pp. 532-536, 18-22 September 2007;

- 28.** Fosala C., Sarmanu C., Cretu M., Donciu C., Ilie V., Virtual laboratories - Tools for improving the quality of distance technical learning, Management of Technological Changes, Book 1, pp. 501-506, 2007;
- 29.** Brinzila M., Pereira M.D., Donciu C., Cretu M., Internet Based Meteorological Center, 4th International Conference On Electrical and Power Engineering (EPE 2006), Iași, Romania, pp. 965-970, 12-14 October 2006;
- 30.** Brinzila M., Alexandru C., Donciu C., Crețu M., Design and Analysis of a proposed Web Electronic Nose (WebE-Nose), 4th International Conference On Electrical and Power Engineering (EPE 2006), Iași, Romania, pp. 971-976, 12-14 October 2006;
- 31.** Lunca E., Donciu C., Salceanu A., David V., Testing and Monitoring Systems Based on Virtual Instrumentation, 4th International Conference On Electrical and Power Engineering (EPE 2006), Iași, Romania, pp. 1037-1042, 12-14 October 2006;
- 32.** Ciobanu R., Schreiner C., Donciu C., Branzila M., Prototype Architecture for a Remote and Distributed Measurements Laboratory, for Higher Education Purposes, Proceedings of International Conference on Distance Education (ICODE 2006), Muscat, Sultanate of Oman, pp. 173-185, 27-29 March 2006;
- 33.** Luncă E., Donciu C., Sălceanu A., Crețu M., Virtual Interface for Spectral Measurements, 5th International Conference on Electromechanical and Power Systems, Chișinău, Moldova, vol. 1, pp. 355-358, 6-8 October 2005;
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- 35.** Temneanu M., Foșalău C., Donciu C., An Internet Based Approach to Virtual Magnetometry, Proceedings of Remote Engineering and Virtual Instrumentation Symposium, Brasov, Romania, pp. 101-104, 31 June - 1 July 2005;
- 36.** Aradoaei S., Hanganu S., Donciu C., Socotar D., Olariu M., Prototype architecture of a remote teaching laboratory, Management of Technological Changes, Book 1, pp. 179-182, 2005;
- 37.** Trandabat A., Branzila M., Donciu C., Ciobanu R., Air quality mapping system for residential areas, using distributed measurements and gps technology, Proceedings of the 9th International Conference on Environmental Science and Technology, Volume B, pp. B927-B932, 2005;
- 38.** Temneanu C., Donciu C., Ciobanu R., Schreiner C., Minimal fuzzy logic controller. Design considerations and potential applications, Proceedings of the 2005 IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, pp. 141-144, 2005;
- 39.** Donciu C., Temneanu C., Ciobanu R., *Breaking Nyquist criteria using alias frequencies interpretation*, Proceedings of the 2005 IEEE International Conference on Virtual Environments, Human-Computer Interfaces and Measurement Systems (VECIMS 2005), pp. 50-53, 2005;
- 40.** Branzila M., Fosala C., Donciu C., Cretu M., Virtual Library Included in LabView Environment for a New DAS with Data Transfer by LPT, Proceedings of the 14th International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Poland, vol. 1, pp. 535-540, 12-15 September 2005;
- 41.** Donciu C., Crețu M., Luncă E., Constant Passage Technique for Undersampling Method with Two Sampling Rates, Proceedings of the 14th International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Poland, vol. 1, pp. 250-253, 12-15 September 2005;
- 42.** Lunca E., Donciu C., Cretu M., Salceanu A., A basic virtual test system for EMI/RFI problems, Proceedings of the 14th International Symposium on New Technologies in Measurement and Instrumentation, Gdynia-Jurata, Poland, vol. 1, pp. 418-421, 12-15 September 2005;
- 43.** Lunca E., Salceanu A., Hanganu S., Donciu C., Virtual Instrument Aiming To Extend The Capabilities Of The Spectrum Analyzers, 13th IMEKO-TC4 International Symposium on Measurements for Research and Industry Applications, IMEKO 2004, Athens, Greece, pp. 653-656, 29 September - 1 October 2004;
- 44.** Donciu C., Schreiner C., Cretu M., Lunca E., A Distributed Monitoring System for Power Quality, 13th IMEKO-TC4 International Symposium on Measurements for Research and Industry Applications, Athens, Greece, pp. 686-689, 29 September - 1 October 2004;
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48. Donciu C., Rapuano S., A distributed measurement system for stepping motors study, Proceedings of the 21st IEEE Instrumentation and Measurement Technology Conference, IMTC 04., vol. 2, pp. 996-999, 2004;
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51. Donciu C., Cretu M., Fosalau C., A Measurement System for Remote Teaching and Education, XVII IMEKO World Congress, Metrology in the 3rd Millennium, Cavtat-Dubrovnik, Croatia, pp. 792-795, 22-27 June 2003;
52. Pancu C., Baraboi A., Adam M., Donciu C., PC Sound Card In The Contact Resistance's Estimation, 5th International Power Systems Conference, Timisoara, Romania, pp. 399-402, 6-7 November 2003;
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g) Other papers

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