


Lista lucrărilor publicate

Liviu Marin VIMAN

a) Lucrări relevante

1. **Liviu Viman**, Mihai Dărăban, Raul Fizeșan, Mircea Iuonaș, "XpertTrack: Precision Autonomous Measuring Device Developed for Real Time Shipments Tracker", Sensors, 2016, March 10, Volume 16, Issue 3, pp. E355, ISSN: 1424-8220, DOI: 10.3390/s16030355, MEDLINE: 26978360, WOS:000373713600044, **IF: 2.245**.
2. Ioan Ciascai, **Liviu Viman**, "AVR takes under 1 μ s to process quadrature encoder" EDN, 05 October, 2015, ISSN 0012-7515, EDN the Design Magazine of the Electronics Industry, EDN Europe, ISSN 0012-7515, January, 2016, pp. 33-34, **IF: 0.021**.
3. I.H. Baci, **L. Viman**, A. Fodor, G. Chindriș, "Advanced methods of generating signals to command switching converters" 36th International Spring Seminar on Electronics Technology (ISSE), 8-12 May, 2013, Alba Iulia, Romania, pp. 202-205, ISSN 2161-2528, DOI: 10.1109/ISSE.2013.6648242, WOS:000374113900038.
4. **L. Viman**, Ș. Lungu, "Electrical Coupled Model for Two Coils Vibrating Wire Transducer" 33th International Spring Seminar on Electronics Technology (ISSE), 12-16 May, 2010, Warsaw, Poland, pp. 421 - 426, ISBN 978-1-4244-7849-1, DOI: 10.1109/ISSE.2010.5547358.
5. V. Bande, S. Pop, **L. Viman**, D. Pitică, "Behavioral Model and a MatLAB Simulation Interface of Vibrating Wire Transducers", 32th International Spring Seminar on Electronics Technology (ISSE), 13-17 May, 2009, Brno, Czech Republic, pp. 1-6, ISBN 978-1-4244-4260-7, DOI: 10.1109/ISSE.2009.5206996, WOS:000277445500099.
6. **L. Viman**, V. Bande, I. Ciascai, "The Data Calibration in the Inductive Telependulum Measurement System", 15th International Symposium for Design and Technology of Electronic Packages (SIITME), 17-20 September, 2009, Gyula, Hungary, pp. 277-282, ISBN 978-1-4244-50330309.
7. **L. Viman**, Ș. Lungu, M. Dăbâcan, "Techniques to Implement A/D Converters using Minimal Hardware and Software" 31st International Spring Seminar on Electronics Technology (ISSE), 7-11 May, 2008, Budapest, Hungary, pp. 288-293, ISBN 978-1-4244-3973-7, DOI: 10.1109/ISSE.2008.5276654, WOS:000272337900061.
8. **L. Viman**, I. Ciascai, M. Dăbâcan, S. Pop, "Embedded microcontroller system for reading inductive telependulum" 30th International Spring Seminar on Electronics Technology (ISSE), 9-13 May, 2007, Cluj-Napoca, Romania, pp. 425-428, ISBN 987-1-4244-1218-1, DOI: 10.1109/ISSE.2007.4432893, WOS:000255232500083.
9. I. Ciascai, S. Pop, **L. Viman**, M. Dăbâcan, "An Accurately Method for Measuring Resistive Transducers from Hydro-energetic Constructions", 04 Int'l Spring Seminar on Electronics Technology 28th (ISSE), may, 2005, Viena, Austria, pp. 67-70, ISBN 0-7803-9325-2, DOI: 10.1109/ISSE.2005.1491001, WOS:000232402300011.
10. **L. Viman**, I. Ciascai, M. Dăbâcan, S. Pop, "Using an embedded microcontroller system to excite vibrating wire transducers", 04 Int'l Spring Seminar on Electronics



Technology 27th (ISSE), 13-16 May, 2004, Sofia, Bulgaria, pp. 1-4, vol. 1, ISBN 0-7803-8422-9, DOI: 10.1109/ISSE.2004.1490365, WOS:000230638000001.

b) Teza de doctorat

1. Cercetări teoretice și experimentale privind sistemele de achiziție și prelucrare a semnalelor, Universitatea Tehnică din Cluj Napoca, 2009, 236 pagini, îndrumător: prof. dr. ing. Șerban Lungu.

c) Brevete de invenție

d) Cărți

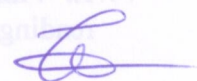
1. **Liviu Viman**, Septimiu Pop, Ioan Ciascai, *Sisteme de achiziție de date – Măsurarea traductoarelor cu coardă vibrantă și rezistive din construcțiile hidrotehnice*, Cluj-Napoca, Romania: Mediamira, 2015, pp.229, ISBN 978-973-713-332.
2. **Liviu Viman**, Septimiu Pop, *Sisteme de achiziție de date – Dezvoltare de aplicații cu LabVIEW FPGA și Spartan-3E Starter Kit Board*, Cluj-Napoca, Romania: U.T.PRESS, 2015, pp.97, ISBN 978-606-737-042-3.
3. **Liviu Viman**, Septimiu Pop, *Data acquisition systems – Applications development with LabVIEW FPGA and Spartan-3E Starter Kit Board*, Cluj-Napoca, Romania: U.T.PRESS, 2015, pp.97, ISBN 978-606-737-043-0.
4. Ioan Ciascai, Mircea Dăbâcan, **Liviu Viman**, Pop Septimiu, *Măsurarea electrică a traductoarelor din construcțiile hidrotehnice*, Casa Cărții de Știință, Cluj-Napoca, 2006, pp.132, ISBN 973-686-981-4.
5. **Viman Liviu**, Florin Hurgoi, *Proiectarea asistată a plachetelor electronice – Îndrumător de laborator*, Editura Casa Cărții de Știință, Cluj-Napoca, 2002, pp.82, ISBN 973-686-262-3.

e) Lista completă de lucrări

1. **Liviu Viman**, Mihai Dărăban, Raul Fizeșan, Mircea Iuonaș, “XpertTrack: Precision Autonomous Measuring Device Developed for Real Time Shipments Tracker”, *Sensors*, 2016, March 10, Volume 16, Issue 3, pp. E355, ISSN: 1424-8220, DOI: 10.3390/s16030355, MEDLINE: 26978360, WOS:000373713600044, **IF: 2.245**.
2. Ioan Ciascai, **Liviu Viman**, “AVR takes under 1μs to process quadrature encoder” *EDN*, 05 October, 2015, ISSN 0012-7515, *EDN the Design Magazine of the Electronics Industry*, *EDN Europe*, ISSN 0012-7515, January, 2016, pp. 33-34, **IF: 0.021**.
3. Mihai Dărăban, Raul Fizeșan, Dan Pitica, **Liviu Viman**, “A SPICE Analysis on How PDNs Can Benefit From Crosstalk Avoidance Code” 38th International Spring Seminar on Electronics Technology (ISSE), 6-10 May, 2015, Eger, Hungary, pp. 440-464, ISBN 978-1-4799-8860-0, DOI: 10.1109/ISSE.2015.7248037, WOS:000374113000088.

4. I.H. Baci, **L. Viman**, A. Fodor, G. Chindriș, "Advanced methods of generating signals to command switching converters" 36th International Spring Seminar on Electronics Technology (ISSE), 8-12 May, 2013, Alba Iulia, Romania, pp. 202-205, ISSN 2161-2528, DOI: 10.1109/ISSE.2013.6648242, WOS:000374113900038.
5. **L. Viman**, C. M. Vancea, "PCB Design Considerations for Wireless Data Logger used for Thermal Validation System" 17th International Symposium for Design and Technology of Electronic Packages (SIITME), 20-23 Oct., 2011, Timisoara, Romania, pp. 265 - 268, ISBN 978-1-4577-1276-0, DOI: 10.1109/SIITME.2011.6102732 .
6. C. M. Vancea, **L. Viman**, "Wireless data logger for thermal validation systems" 17th International Symposium for Design and Technology of Electronic Packages (SIITME), 20-23 Oct., 2011, Timisoara, Romania, pp. 295 - 298, ISBN 978-1-4577-1276-0, DOI: 10.1109/SIITME.2011.6102739 .
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8. **L. Viman**, Ș. Lungu, M. Dăbâcan, "Electrical Model for Two Coils Vibrating Wire Transducers without Mutual Couplings" 16th International Symposium for Design and Technology of Electronic Packages (SIITME), 23-26 Sept., 2010, Pitesti, Romania, pp. 157 - 160, ISBN 978-1-4244-8123-1, DOI: 10.1109/SIITME.2010.5653505.
9. **L. Viman**, Ș. Lungu, M. Dăbâcan, V. Bande, "The evaluation of the dynamic performances for high speed A/D converters using mathematical models and simulations", 32th International Spring Seminar on Electronics Technology (ISSE), 13-17 May, 2009, Brno, Czech Republic, pp. 1-4, ISBN 978-1-4244-4260-7, DOI: 10.1109/ISSE.2009.5206995, WOS:000277445500098.
10. V. Bande, S. Pop, **L. Viman**, D. Pitică, "Behavioral Model and a MatLAB Simulation Interface of Vibrating Wire Transducers", 32th International Spring Seminar on Electronics Technology (ISSE), 13-17 May, 2009, Brno, Czech Republic, pp. 1-6, ISBN 978-1-4244-4260-7, DOI: 10.1109/ISSE.2009.5206996, WOS:000277445500099.
11. **L. Viman**, V. Bande, I. Ciascai, "The Data Calibration in the Inductive Telependulum Measurement System", 15th International Symposium for Design and Technology of Electronic Packages (SIITME), 17-20 September, 2009, Gyula, Hungary, pp. 277-282, ISBN 978-1-4244-50330309.
12. **L. Viman**, Ș. Lungu, M. Dăbâcan, "Techniques to Implement A/D Converters using Minimal Hardware and Software" 31st International Spring Seminar on Electronics Technology (ISSE), 7-11 May, 2008, Budapest, Hungary, pp. 288-293, ISBN 978-1-4244-3973-7, DOI: 10.1109/ISSE.2008.5276654, WOS:000272337900061.
13. **L. Viman**, Ș. Lungu, M. Dăbâcan, "The measurement methods for variable resistors using minimal hardware and software" 14th International Symposium for Design and Technology of Electronic Packages (SIITME), 18-21 September, 2008, Predeal, Romania, pp. 198-201, ISBN 1843-5122.
14. **L. Viman**, I. Ciascai, M. Dăbâcan, S. Pop, "Embedded microcontroller system for reading inductive telependulum" 30th International Spring Seminar on Electronics

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15. I. Ciascai, **L. Viman**, M. Dăbâcan, and S. Pop, "Measurement of the infiltrations discharges in hydro-energetic constructions", International Symposium for Design and Technology of Electronic Packages (SIITME), 21-24 September, 2006, Iasi, Romania, pp. 111-113, ISBN 978-973-8961-23-4.
 16. Septimiu Pop, Ioan Ciascai, **Liviu Viman**, Mircea Dăbâcan, "Seismic trigger using MEMS sensor", International Symposium for Design and Technology of Electronic Packages (SIITME), 21-24 September, 2006, Iasi, Romania, pp. 141-143, ISBN 978-973-8961-23-4.
 17. **L. Viman**, I. Ciascai, M. Dăbâcan, S. Pop, "Determination the angular movements of an underground hydroelectric power Station", International Symposium for Design and Technology of Electronic Packages" (SIITME), 21-24 September, 2006, Iasi, Romania, pp. 188-190, ISBN 978-973-8961-23-4.
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 19. I. Ciascai, S. Pop, **L. Viman**, M. Dăbâcan, "An Accurately Method for Measuring Resistive Transducers from Hydro-energetic Constructions", 04 Int'l Spring Seminar on Electronics Technology 28th (ISSE), may, 2005, Viena, Austria, pp. 67-70, ISBN 0-7803-9325-2, DOI: 10.1109/ISSE.2005.1491001, WOS:000232402300011.
 20. Septimiu Pop, Ioan Ciascai, Mircea Dăbâcan, **Liviu Viman**, "Post factum connecting wire compensation for temperature resistive transducers", International Symposium for Design and Technology of Electronic Packages (SIITME) 22-25 September, 2005, Cluj Napoca, Romania, pp. 219- 222, ISBN 973-713-063-4.
 21. Ioan Ciascai, Septimiu Pop, **Liviu Viman**, Mircea Dăbâcan, "Filtering a measured values series to remove random group errors", International Symposium for Design and Technology of Electronic Packages", (SIITME), 22-25 September, 2005, Cluj Napoca, Romania, pp. 215-218, ISBN 973-713-063-4.
 22. **Liviu Viman**, Mircea Dăbâcan, Septimiu Pop, Ioan Ciascai, "Reading vibrating wire transducers in a hydro-technical building", International Symposium for Design and Technology of Electronic Packages (SIITME), 22-25 September, 2005, Cluj Napoca, Romania, pp. 141-145, ISBN 973-713-063-4.
 23. Mircea Dăbâcan, Ioan Ciascai, **Liviu Viman**, Septimiu Pop, "Frequency-to-position function linearization for inductive transducers (tele-pendulum)", International Symposium for Design and Technology of Electronic Packages (SIITME), 22-25 September, 2005, Cluj Napoca, Romania, pp. 223-227, ISBN 973-713-063-4.
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 25. S. Pop, I. Ciascai, **L. Viman**, "Sisteme electronice pentru gestionarea parametrilor de mediu", Environment & Progress 5/ 2005, Editura EFES, pp. 339-342, ISSN 1584-6733.



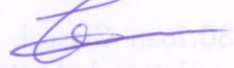
26. M. Dăbâcan, I. Ciascai, **L. Viman**, S. Pop, "Pulse Width Compensated Resistive Bridge Algorithms", 04 Int'l Spring Seminar on Electronics Technology 27th (ISSE), 13-16 May, 2004, Sofia, Bulgaria, ISBN 0-7803-8422-9, pp. 9-13, vol. 1, DOI: 10.1109/ISSE.2004.1490367, WOS:000230638000003.
27. I. Ciascai, M. Dăbâcan, **L. Viman**, S. Pop, "Measuring Modifying Impedance Transducers", 04 Int'l Spring Seminar on Electronics Technology 27th (ISSE), 13-16 May, 2004, Sofia, Bulgaria, pp. 5-8, vol. 1, ISBN 0-7803-8422-9, DOI: 10.1109/ISSE.2004.1490366, WOS:000230638000002.
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30. Ioan Ciascai, Mircea Dăbâcan, **Liviu Viman**, "Compensating the Microcontroller internal Analog-to-Digital Converter Linearity Error for Precise Measurement of Resistive Transducers", The 9th International Symposium for Design and Technology of Electronic Packaging (SIITME), september 18-21, 2003, Timișoara, Romania, pp. 140-142, ISBN 973-96592-6-8.
31. Mircea Dăbâcan, Ioan Ciascai, **Liviu Viman**, "Measuring Resistive Transducers in Hydro-energetic Constructions", The 9th International Symposium for Design and Technology of Electronic Packaging (SIITME), september 18-21, 2003, Timișoara, pp. 137-139, ISBN 973-96592-6-8.
32. **Liviu Viman**, Mihaela Radu, "A Methodology for Placing DXF Graphics Inside a Footprint", The 9th International Symposium for Design and Technology of Electronic Packaging (SIITME), September 18-21, 2003, Timișoara, Romania, pp. 20-22, ISBN 973-96592-6-8.
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35. **Liviu Viman**, Gabriel Chindriș, Ovidiu Pop, "A new methodology for using OrCAD applications on a network" 24th International pring Seminar on Electronics Technology (SIITME), 5 – 9 May, 2001, Calimanesti – Caciulata, Romania, pp.238-242, ISBN 0-7803-7111-9, DOI: 10.1109/ISSE.2001.931068, WOS:000170861900054.
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38. Mihaela Radu, **Liviu Viman**, Cristian Posteuca, “FMEA/FMECA – “Failure Mode Effects and Criticality Analysis of Fault Tolerant Systems”, DAAAM Intelligent Manufacturing & Automation Symposium 2000, Opatjia, Croatia, 19 – 21 October, 2000, pp. 397-398, ISBN 3-901509-13-5.
39. Mihaela Radu, Dan Pitica, **Liviu Viman**, “Reliability Analysis of Antiperturbative Filters Using EMC Components” EMC Conference, the 10th international DAAM Symposium, Vienna University of Technology, 21-23 October, 1999, Vienna, Austria, ISBN 3-901509-10-0.

Data

Semnatura

9.06.2016


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