

Publications

Book chapters:

IGI-Global: **F. Albu**, K. Nishikawa, “Nonlinear adaptive filtering with a family of kernel affine projection algorithms”, *Advances in Computational Intelligence and Robotics*, IGI-Global, pp. 66-89, 2015. [Website](#)

Journal papers:

6. Signal Processing: **S. Ciochina**, **C. Paleologu** and J. Benesty, “An optimized NLMS algorithm for system identification,” *Signal Processing*, vol. 118, pp. 115-121, Jan. 2016. [Website](#)

5. Signal Processing: **C. Paleologu**, J. Benesty, and **S. Ciochina**, “Widely linear general Kalman filter for stereophonic echo cancellation,” *Signal Processing*, vol. 94, pp. 570-575, January 2014 [Website](#)

4. IEEE Trans. Audio, Speech, Language Processing: **C. Paleologu**, J. Benesty, and **S. Ciochina**, “Study of the general Kalman filter for echo cancellation,” *IEEE Trans. Audio, Speech, Language Processing*, vol. 21, pp. 1539-1549, August 2013 [Website](#)

3. IET Signal Processing: A. Gonzales, **F. Albu**, M. Ferrer, M. Diego, “Evolutionary and variable step size affine projection algorithms for active noise control”, *IET Signal Processing*, vol. 7, (6), pp. 471-476, August 2013 [Website](#)

2. Signal Processing: **C. Stanciu**, J. Benesty, **C. Paleologu**, T. Gansler, **S. Ciochina**, „A widely linear model for stereophonic acoustic echo cancellation, *Signal Processing*, vol. 93, Issue 2, pp. 511-516, Feb. 2013 [Website](#)

1. IET Electronics Letters: **F. Albu**, H.K. Kwan, “Memory Improved Proportionate Affine Projection Sign Algorithm”, *IET Electronics Letters*, Volume, Issue, October 2012 Page(s): 1279-1281, 27 September 2012 [Website](#)

Conference papers:

51. ISETC 2016 **C. Stanciu**, C. Anghel, **C. Paleologu**, **S. Ciochina**, J. Benesty, "FPGA Implementation of an Optimized NLMS Algorithm", accepted at ISETC 2016, Timisoara, Romania

50 ICACCI 2016 **F. Albu**, P. S. R. Diniz, “Improved Set-Membership Partial-Update Pseudo Affine Projection Algorithm”, in Proc. of ICCACI 2016, Jaipur, India [Website](#)

49 EUSIPCO 2016c Y. Li, Y. Wang, **F. Albu**, “Sparse Channel Estimation Based on a Reweighted Least-Mean Mixed-Norm Adaptive Filter Algorithm”, in Proc. of Eusipco 2016, Budapest, Hungary, pp. 2380 – 2384. [Website](#)

- 48 **EUSIPCO 2016b** **S. Ciochina, C. Paleologu**, J. Benesty, S. L. Grant, A. Anghel, "A Family of Optimized LMS-Based Algorithms for System Identification", in Proc. of Eusipco 2016, Budapest, Hungary, pp. 1803-1807. [Website](#)
- 47 **EUSIPCO 2016a** I. Dragoi, **D. Coltuc**, "Reversible Watermarking Based on Complementary Predictors and Context Embedding", in Proc. of Eusipco 2016, Budapest, Hungary, pp. 1178-1182. [Website](#)
- 46 **ECTI-CON 2016** **F. Albu**, J. Liu, S.L. Grant, "Approximated Proportionate Affine Projection Algorithms for Block Sparse Identification", ECTI-CON 2016, Chiang Mai, Thailand, 9-11 July 2016. [Website](#)
- 45 **ECAI 2016** **C. Paleologu**, Jacob Benesty, **C. Stanciu**, C. Anghel, M. Stenta, „Robust Regularization of the Recursive Least-Squares Algorithm”, ECAI 2016 [Website](#)
- 44 **COMMUNICATIONS 2016b** **F. Albu**, J. Liu, S.L. Grant, "A Fast Filtering Block Sparse Proportionate Affine Projection Sign Algorithm", Communications 2016, Bucharest, 9-11 June 2016. [Website](#)
- 43 **COMMUNICATIONS 2016a** **C. Stanciu**, C. Anghel, **C. Paleologu**, **S. Ciochina**, „On the Numerical Properties of an Optimized NLMS Algorithm”, Communications 2016, Bucharest, 9-11 June 2016. [Website](#)
- 42 **AES 140** **F. Albu**, "Block-Sparse Fast Recursive Approximated Memory Improved Proportionate Affine Projection Algorithm", AES 140, June 2016. [Website](#)
- 41 **IWSSIP 2016** **F. Albu**, "Low Complexity Image Registration Techniques based on Integral Projections", IWSSIP 2016, May 2016. [Website](#)
40. **APSIPA 2015** **F. Albu**, K. Nishikawa, "New iterative kernel algorithms for nonlinear acoustic echo cancellation", in Proc. of *APSIPA 2015*, pp. 734-739. [Website](#)
39. **IEEE SPED 2015** **S. Ciochina, C. Paleologu**, J. Benesty, C. Anghel, „An Optimized Affine Projection Algorithm for Acoustic Echo Cancellation”, in Proc. of *SpeD 2015*, pp. 1-6. [Website](#)
38. **EUSIPCO 2015a** K. Nishikawa, **F. Albu**, "Implementation method of kernel adaptive filter as an add-on for a linear adaptive filter", *EUSIPCO 2015*, pp. 2736-2740. [Website](#)
37. **EUSIPCO 2015b** **F. Albu**, C. R. C. Nakagawa, and S. Nordholm "Proportionate algorithms for two-microphone active feedback cancellation", *EUSIPCO 2015*, pp. 290-294. [Website](#)
- 36 **IEEE ISSCS 2015a** **S. Ciochina, C. Paleologu**, J. Benesty, S. L. Grant, "An Optimized NLMS Algorithm for Acoustic Echo Cancellation," *ISSCS 2015* [Website](#)
- 35 **IEEE ISSCS 2015b** **C. Stanciu**, C. Anghel, L. Stanciu, Efficient FPGA Implementation of the DCD-RLS Algorithm for Stereo Acoustic Echo Cancellation, *ISSCS 2015* [Website](#)
34. **IEEE ECAI 2015a** **S. Ciochina, C. Paleologu**, J. Benesty, R. Caramalau, "On the Performance of the Joint-Optimized NLMS Algorithm," *ECAI 2015* [Website](#)
33. **IEEE ECAI 2015b** **F. Albu**, Fast recursive AMIPAP algorithm, *ECAI 2015* [Website](#)

32. **IEEE ICTRC 2015** **F. Albu**, “The Proportionate APL-I algorithm” in *Proc. of ICTRC 2015*, Abu Dhabi, UAE, pp. 183-186. [Website](#)
31. **IEEE APSIPA 2014a** F. Albu, A. Gully, Rodrigo C. de Lamare, “Sparsity-aware pseudo affine projection algorithm for active noise control”, *IEEE APSIPA 2014*. [Website](#)
30. **IEEE APSIPA 2014b** K. Nishikawa, **F. Albu**, “Consideration on the Performance of Kernel Adaptive Filters for the Mixture of Linear and Non-Linear Environments”, *IEEE APSIPA 2014*. [Website](#)
29. **IEEE ASILOMAR 2014**: C. Paleologu, J. Benesty, S. Grant and S. Ciochina, “A Kalman filter for stereophonic acoustic echo cancellation,” in *Proc. of IEEE ASILOMAR 2014*, November 2014. [Website](#)
28. **IEEE ISETC2014**: **C. Paleologu**, J. Benesty, and **S. Ciochina**, A Practical Variable Forgetting Factor Recursive Least-Squares Algorithm in *Proc. of IEEE ISETC 2014*, Timisoara, November 2014. [Website](#)
27. **ICCAS 2014**: F. Albu, K. Nishikawa, “A fixed budget implementation of a new variable step size kernel proportionate NLMS algorithm”, in *Proc. of IEEE ICCAS 2014 conference*, Seoul, South Korea, October 2014, accepted. [Website](#)
26. **SPA 2014**: F. Albu, H. Coanda, “A Fast Filtering Proportionate Affine Projection Sign Algorithm”, in *Proc. of IEEE SPA 2014 conference*, Poznan, Poland, September 2014, accepted. [Website](#)
25. **COMM 2014b**: C. Paleologu, J. Benesty, and S. Ciochina, “A practical solution for the regularization of the affine projection algorithm,” in *Proc. of COMM 2014*, Bucharest, May 2014 [Website](#)
24. **COMM 2014a**: C. Stanciu, C. Anghel, “Numerical properties of the DCD-RLS algorithm for stereophonic acoustic echo cancellation,” in *Proc. of COMM 2014*, Bucharest, May 2014 [Website](#)
23. **ADAPTIVE 2014**: **F. Albu**, **H. Coanda**, **D. Coltuc**, & **M. Rotaru**, “Intermittently Updated Simplified Proportionate Affine Projection Algorithm”, in *Proc. of ADAPTIVE 2014*, Venice, Italy, pp. 42-47, May 2014 [Website](#)
22. **IEEE ICASSP 2014a**: **C. Paleologu**, J. Benesty, **S. Ciochina**, and S. L. Grant, “A Kalman filter with individual control factors for echo cancellation,” in *Proc. of IEEE ICASSP*, 2014, pp. 6015–6019. [Website](#)
21. **ICASSP 2014**: C. R. C. Nakagawa, S. Nordholm, **F. Albu**, W.-Y. Yan, "Closed-loop feedback cancellation utilizing two microphones and transform domain processing", in *Proc. of IEEE ICASSP 2014*, 4-9 May, P5.1, pp. 3673-3677, May 2014 [Website](#)
20. **APSIPA 2013**: K. Nishikawa, Y. Ogawa, **F. Albu**, „Fixed Order Implementation of Kernel RLS-DCD Adaptive Filters”, in *Proc. of IEEE APSIPA 2013*, Kaohsiung, Taiwan, November 2013. [Website](#)
19. **ISPA 2013**: **F. Albu**, **D. Coltuc**, K. Nishikawa, **M. Rotaru**, “An efficient implementation of the kernel affine projection algorithm”, in *Proc. of IEEE ISPA 2013*, Trieste, Italy, September 2013 [Website](#)
18. **EUSIPCO 2013a**: **F. Albu**, K. Nishikawa, “The Kernel Proportionate NLMS Algorithm”, in *Proc. of EUSIPCO 2013*, Marrakech, Morocco, September 2013 (ARC B type) [Website](#)

17. **EUSIPCO 2013b**: C. Paleologu, J. Benesty, S. Ciochina “Robust general Kalman dilter for echo cancellation”, in *Proc. of EUSIPCO 2013*, Marrakech, Morocco, September 2013 (ARC B type) [Website](#)
16. **ISSCS 2013a**: M. Rotaru, S. Ciochina, F. Albu, “An Efficient GSC VSS-APA Beamformer with Integrated Log-energy Based VAD for Noise Reduction in Speech Reinforcement Systems”, in *Proc. of IEEE ISSCS 2013*, Iasi, Romania, July 2013 [Website](#)
15. **ISSCS 2013b**: **C. Stanciu**, S. Ciochina, “A Robust Dual-Path DCD-RLS Algorithm for Stereophonic Acoustic Echo Cancellation”, in *Proc. of IEEE ISSCS 2013*, Iasi, Romania, July 2013 [Website](#)
14. **ICASSP 2013**: **F. Albu**, **M. Rotaru**, R. Arablouei, and K. Dogancay, ”Intermittently-updated affine projection algorithm”, in *Proc. of IEEE ICASSP 2013*, Vancouver, Canada, pp. 585 – 589 [Website](#)
13. **ADAPTIVE 2013**: **M. Rotaru**, **C. Stanciu**, **S. Ciochina**, **F. Albu**, **H. Coanda**, “A FPGA Implementation of Prediction Error Method for Active Feedback Cancellation using Xilinx System Generator”, in *Proc. of ADAPTIVE 2013*, Valencia, Spain, pp. 26-29 [Website](#)
12. **ISCAS 2013**: **F. Albu**, H.K.Kwan, “New proportionate affine projection sign algorithms”, in *Proc. of ISCAS 2013*, Beijing, China, pp. 1789 – 1793 [Website](#)
11. **ICARCV 2012**: **F. Albu**, “Improved Variable Forgetting Factor Recursive Least Square Algorithm”, in *Proc. of ICARCV 2012*, Guangzhou, China, 5-7 December 2012, pp. 1789-1793 (ARC A type) [Website](#)
10. **ACOUSTICS 2012**: **F. Albu**, “Leading Element Dichotomous Coordinate Descent Exponential Recursive Least Squares Algorithm for Multichannel Active Noise Control”, in *Proc. of AAS Acoustics 2012*, Fremantle, Australia, 21-23 November 2012, 4 pages. (ARC A type) [Website](#)
9. **SETC 2012a**: **F. Albu**, **D. Coltuc**, D. Communiello, M. Scarpiniti, “The variable step size regularized block exact affine projection algorithm”, ” in *Proc. of IEEE SETC 2012*, Timisoara, Romania, 15-16 November 2012, pp. 283-286. [Website](#)
8. **SETC 2012b**: **M. Rotaru**, **F. Albu**, **H. Coanda**, “A Variable Step Size Modified Decorrelated NLMS Algorithm for Adaptive Feedback Cancellation in Hearing Aids, ” in *Proc. of IEEE SETC 2012*, Timisoara, Romania, 15-16 November 2012, pp. 263-266. [Website](#)
7. **EUSIPCO 2012a**: A. Gonzalez, M. Ferrer, **F. Albu**, and M. de Diego, “Affine projection algorithms: evolution to smart and fast multichannel algorithms and applications”, in *Proc. of Eusipco 2012*, Bucharest, Romania, August 2012, pp. 1965-1969 (ARC B type) [Website](#)
6. **EUSIPCO 2012b**: **C. Stanciu**, **C. Paleologu**, J. Benesty, T. Gänslar, **S. Ciochina**, and **F. Albu**, “Variable-Forgetting Factor RLS for Stereophonic Acoustic Echo Cancellation with Widely Linear Model”, in *Proc. of Eusipco 2012*, Bucharest, Romania, pp. 1960-1964. (ARC B type) [Website](#)
5. **INTER-NOISE 2012a**: **C. Stanciu**, **C. Paleologu**, J. Benesty, T. Gänslar, **S. Ciochina**, “An efficient RLS algorithm for stereophonic acoustic echo cancellation with the widely linear model”, in *Proc. of INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, vol. 2012, no. 11, 10 pages, New York, U.S.A. [Website](#)

4. **INTER-NOISE 2012b: F. Albu**, “New proportionate affine projection algorithm”, in *Proc. of INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, vol. 2012, no. 9, pp. 7726-7733, New York, U.S.A. [Website](#)
3. **COMMUNICATIONS 2012: F. Albu, C. Paleologu, S. Ciochina**, “New variable step size affine projection algorithms”, in *Proc. of IEEE Communications 2012*, Bucharest, Romania, pp. 63-66. [Website](#)
2. **IWSSIP 2012: F. Albu**, “Simplified proportionate affine projection algorithms”, in *Proc. of IEEE IWSSIP 2012*, Vienna, Austria, pp. 382-385. [Website](#)
1. **ICASSP 2012: C. Paleologu, J. Benesty, F. Albu**, “Regularization of the improved proportionate affine projection algorithms”, in *Proc. of IEEE ICASSP 2012*, Kyoto, Japan, pp. 169-172. [Website](#)