** Last modified: March 2025**

**Cristian Lucian Stanciu** received his B. Sc. degree in technologies and systems for telecommunications (2009) and the M.Sc. in digital signal processing (2011) from Faculty of Electronics, Telecommunications, and Information Technology, Politehnica University of Bucharest, Romania. His PhD. research was performed in the same institution and comprised the development of advanced adaptive algorithms for system identification (primarily mono and stereophonic acoustic echo cancellation scenarios) and efficient fixed-point implementations of such methods. Currently, Cristian Stanciu is an **Associate Professor** in the Telecommunications Department of the same faculty where he received his degrees. For several years he is also acting as a consultant software developer in the IT industry.

After finishing his PhD. in 2014, his interests were extended to LTE coding, spectral analysis and corresponding efficient FPGA implementations. In 2016 – 2017 he was project manager for a research grant targeting the development high performance acoustic noise reduction techniques in automobiles and joined a research team working for the European Space Agency. Currently, he leads another research project in the field of adaptive filters based on efficient decompositions. … De spus despre TE (la trecut – 2022-2023) si despre ARUT (cred ca tot la trecut, ca da mai bine, 2023-2024).

Cristian Stanciu is a member of the *IEEE Signal Processing Society* and is co-author for more than 60 journal and conference papers (*IEEE/ACM Trans. on Audio, Speech and Language Processing, Digital Signal Processing, Signal Processing Elsevier*, *Circuits, Systems & Signal Processing - Springer*, MDPI (Symmetry, Sensors, Applied Sciences), ICASSP, EUSIPCO, etc.). He also serves as a reviewer for several international journals (IEEE/ACM *Trans. on Audio, Speech and Language Processing, IEEE ACCESS*, *The Institution of Engineering and Technology* - IET*, Wireless Personal Communications Elsevier, several MDPI Journals, etc.*) and as a reviewer/member of the Technical Program Committee for several international conferences, such as *The European Signal Processing Conference* (EUSIPCO); *International Congress and Exposition on Noise Control Engineering* (Internoise).

**Google scholar citations** <https://scholar.google.ro/citations?user=TXLYU6AAAAAJ&hl=ro>

**ResearchGate** <https://www.researchgate.net/profile/Cristian_Stanciu>;

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**Research interests**: Adaptive filtering algorithms, adaptive systems; sparse system identification; acoustic signal processing; adaptive noise control; network and acoustic echo cancellation; recurrent neural networks.

**Programming/configuration and testing technologies:** VHDL, Python 3.x (NumPy, TensorFlow, Pandas, PyTorch), Matlab, ModelSIM (*tcl*), Xilinx ISE/Vivado, Java 8.1/11, C#, SQL (and associated tools/ IDEs/ development frameworks).

**Courses:** Signals and Systems, Hardware Description Language and FPGA Implementation Methodology, Java Programming for Mobile Devices.

**Books/chapters:**

* C. Anghel and C. Stanciu, *Turbo Codes in Wireless Communications – FPGA Implementation*, Printech, ISBN 978-606-23-0812-2, Bucharest, Romania, 2018.
* C. Anghel, C. Stanciu, and C. Paleologu, *Field Programmable Gate Array – Chapter 2 – Efficient FPGA implementation of a CTC turbo decoder for WiMAX/ LTE mobile systems*, Intech, book edited by George Dekoulis, ISBN 978-953-51-3208-0, Published: May 31, 2017 (pp. 25 – 55), https://www.intechopen.com/books/field-programmable-gate-array/efficient-fpga-implementation-of-a-ctc-turbo-decoder-for-wimax-lte-mobile-systems [last accessed Mar. 2025].
* C. Anghel and C. Stanciu, *Hardware description languages and FPGA designing patterns* (in Romanian), Printech, ISBN 978-606-23-0577-2, Bucharest, Romania, 2016.

**Journal papers:**

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2. J. Benesty, C. Paleologu, C. L. Stanciu, R. L. Costea, L. M. Dogariu, and S. Ciochina, “Wiener filter using the conjugate gradient method and a third-order tensor decomposition,” *Applied Sciences*, vol. 14, id. 2430 (22 pages), Mar. 2024, DOI: 10.3390/app14062430, WOS: 001191681900001 – ISI Q1.
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4. C. Paleologu, J. Benesty, C. L. Stanciu, J. R. Jensen, M. G. Christensen, and S. Ciochina, “Recursive least-squares algorithm based on a third-order tensor decomposition for low-rank system identification,” *Signal Processing*, vol. 213, id. 109216 (10 pages), Dec. 2023, DOI: 10.1016/j.sigpro.2023.109216, WOS: 001063165300001 – ISI Q1.
5. I. D. Ficiu, C. L. Stanciu, C. Paleologu, and J. Benesty, “Low-complexity data-reuse RLS algorithm for stereophonic acoustic echo cancellation,” *Applied Sciences*, vol. 13, id. 2227 (16 pages), Feb. 2023, DOI: 10.3390/app13042227, WOS: 000938788600001 – ISI Q1.
6. I. D. Ficiu, C. L. Stanciu, C. Elisei-iliescu, and C. Anghel, “Tensor-based recursive least-squares adaptive algorithms with low-complexity and high robustness features,” *MDPI-Electronics*, vol. 11, id. 237 (16 pages), Jan. 2022, DOI: 10.3390/electronics11020237, WOS: 000746966000001 – ISI Q2.
7. I.-D. Fîciu, C.L. Stanciu, C. Anghel, and C. Elisei-Iliescu, “Low-Complexity Recursive Least-Squares Adaptive Algorithm Based on Tensorial Forms,” *Applied Sciences*, vol. 11(18), p. 8656, September 2021, DOI: 10.3390/app11188656, WOS: 000699216700001– ISI Q1.
8. L.-M. Dogariu, C. Paleologu, J. Benesty, C.-L. Stanciu, C.-C. Oprea, and S. Ciochină, “A Kalman filter for multilinear forms and its connection with tensorial adaptive filters,” *Sensors*, vol. 21(10), p. 3555, May 2021, DOI: 10.3390/s21103555, WOS: 000662590100001– ISI Q2.
9. L.-M. Dogariu, C.-L. Stanciu, C. Elisei-Iliescu, C. Paleologu, J. Benesty, and S. Ciochină, “Tensor-based adaptive filtering algorithms,” *Symmetry*, vol. 13, no. 3, p. 481, Mar. 2021, DOI: 10.3390/sym13030481, WOS: 000634166700001 – ISI Q2.
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11. C. Elisei-Iliescu, C. Stanciu, C. Paleologu, J. Benesty, C. Anghel, and S. Ciochină, “Efficient recursive least-squares algorithms for the identification of bilinear forms,” *Digital Signal Processing*, vol. 83, pp. 280-296, Dec. 2018 – ISI Q2.
12. C. Anghel, C. Stanciu, and C. Paleologu, “Novel parallel CTC turbo decoder architecture for LTE systems, ”*University Politehnica of Bucharest Scientific Bulletin*, Series C, Vol. 79, Iss. 1, 2017, ISSN 2286-3540.
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2. R. Otopeleanu, C. Paleologu, J. Benesty, C. Elisei-Iliescu, C. L. Stanciu, and C. Anghel, “On the forgetting factors of the RLS algorithm based on third-order tensor decomposition,” in *Proc. IEEE SIITME*, 2024 (4 pages), Sibiu, Romania, **Best Paper Award.**
3. C. L. Stanciu, C. Anghel, L. M. Dogariu, I. D. Fîciu, and L. Stanciu, “Regularized affine projection algorithm for stereophonic acoustic echo cancellation,” in *Proc. IEEE Conference Advanced Topics on Measurement and Simulation* *(ATOMS)*, 2024 (4 pages), Constanta, Romania.
4. C. L. Stanciu, C. Anghel, C. Elisei-Iliescu, L. M. Dogariu, I. D. Ficiu, and C. Paleologu, “On the regularization of a low-complexity recursive least-squares adaptive algorithm,” in *Proc. ADAPTIVE*, 2024, pp. 26-28, **Best Paper Award.**
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10. I. D. Fîciu, C. L. Stanciu, C. Elisei-Iliescu, C. Anghel, L. Stanciu, and R. M. Udrea, “Efficient RLS algorithms with line search methods for stereophonic acoustic echo cancellation,” in *Proc. IEEE International Symposium on Signals, Circuits and Systems (ISSCS),* 2023 (4 pages), Iasi, Romania.
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23. C. Elisei-Iliescu, C. Paleologu, J. Benesty, C. Stanciu, and C. Anghel, “A Regularized RLS Algorithm for the Identification of Third-Order Tensors,” in 14th *International Symposium on Electronics and Telecommunications ISETC,* 5-6 November, 2020, (4 pages).
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30. C. Stanciu, L. Stanciu, and R. Mihaescu, “Low Complexity Recursive Least-Squares Algorithm for Adaptive Noise Cancellation,” *The Sixteenth International Conference on Networks,* April 23 - 27, 2017 - Venice, Italy \*Invited presentation\*.
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**Research grants and fellowships**

* **De pus ARUT**
* Research project (**as manager**): ***D.A.S.T.I.*** (*New Decomposition-Based Algorithms for Sparse System Identification*) – Funding Institution: ***UEFISCDI***, Project code: ***PN-III-P1-1.1-TE-2019-0529*** (<http://www.comm.pub.ro/dasti/>).
* Research project (**as manager**): ***NOVEL-AUTO*** – *New Algorithms with Fast Convergence and Efficient Implementation Structures for Acoustic Noise Cancellation in Automobiles* (2016–2017), **UPB grant** – In the context of the collaboration established between the UPB and the company Renault Romania, the purpose was to make a concrete contribution to common research interests, using the team’s experience with improved *recursive least-squares* (RLS) adaptive systems (for acoustic echo cancellation, noise reduction and speech reinforcement). The objectives of the project were to increase the intelligibility / clarity of the acoustic signals recorded by the microphone(s) designated to capture useful signals during the operation of vehicles. Publications and other information here.
* 2015 – 2017**;** role: **signal processing (acquisition, tracking)**, “GaVPro Developing a Galileo Vector Processing Receiver for Difficult Signal Conditions”, **UPB – European Space Agency (ESA)**.
* 2015 – 2017; role: **signal processing, FPGA programming**;“Development of Robust Algorithms for Improving the Speech Signal using Microphone Arrays in Automobile Communication”, manager Associate Prof. PhD Eng. M. Udrea, **UEFISCDI grant**.
* 2011 – 2016; role: **signal processing, FPGA programming;** “Advance adaptive algorithms for digital hearing aids”, manager Prof. PhD Eng. F. Albu, **UEFISCDI grant**.
* 2012 – 2016; role: **signal processing, FPGA programming**; “ScalabIe Radio Transceiver for Instrumental Wireless Sensor Networks“; manager Prof. PhD Eng. O. Fratu, **UEFISCDI grant**.
* March 2011 – February 2014: **Fellowship** POSDRU EXPERT ID 76903; “Stereophonic Acoustic Echo Cancellation using Recursive Least Squares adaptive algorithms – fixed point implementation “; September 2012-December 2012;Doctoral Stage “Acoustic Signal Analysis – Parameter computation using FPGA devices”; **GIPSA-LAB (INP Grenoble) – Grenoble, France** – **Acoustic Signal Processing**, **FPGA Programming**.

**Hirsch indices:**

* Google Scholar– h-index = 9
* Scopus– h-index = 7
* Web of Science Core Collection– h-index = 6

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**Technical Reviewer**:

* IEEE Transactions on Audio, Speech, and Language Processing
* IEEE ACCESS
* International Journal of Adaptive Control and Signal Processing (Wiley)
* IET Signal Processing; Wireless Personal Communications Journal
* MDPI (Algorithms, Electronics, Entropy, Information, J. of Imaging, Processes)
* The European Signal Processing Conference (EUSIPCO)
* International Congress and Exposition on Noise Control Engineering (Internoise)
* International Conference COMMUNICATIONS (COMM), 2016, Bucharest, Romania – Technical Program Committee.
* International Journal On Advances in Intelligent Systems - Editorial Board
* International Journal On Advances in Internet Technology - Editorial Board
* International Journal On Advances in Networks and Services - Editorial Board
* International Journal On Advances in Software - Editorial Board
* International Journal On Advances in Telecommunications - Editorial Board
* The Twelfth International Conference on Advances in Satellite and Space Communications, SPACOMM 2020, February 23 - 27, 2020 - Lisbon, Portugal – Technical Program Committee
* The Tenth International Conference on Advances in Satellite and Space Communications, SPACOMM 2018, April 22 - 26, 2018 - Athens, Greece – Technical Program Committee
* The Ninth International Conference on Advances in Satellite and Space Communications, SPACOMM 2017, April 23 - 27, 2017 - Venice, Italy – Technical Program Committee
* The Third International Conference on Advances in Sensors, Actuators, Metering and Sensing, ALLSENSORS 2018, March 25 - 29, 2018 - Rome, Italy – Technical Program Committee
* The Second International Conference on Advances in Sensors, Actuators, Metering and Sensing, ALLSENSORS 2017, March 19 - 23, 2017 - Nice, France – Technical Program Committee
* The Eighth International Conference on Computational Logics, Algebras, Programming, Tools, and Benchmarking, COMPUTATION TOOLS 2018, February 18 - 22, 2018 – Barcelona, Spain – Steering Committee, Technical Program Committee
* The Eighth International Conference on Computational Logics, Algebras, Programming, Tools, and Benchmarking, COMPUTATION TOOLS 2017, February 19 - 23, 2017 - Athens, Greece – Technical Program CommitteeThe Thirteenth International Conference on Digital Telecommunications, ICDT 2018, April 22 - 26, 2018 - Athens, Greece – Technical Program Committee
* The Twelfth International Conference on Digital Telecommunications, ICDT 2017, April 23 - 27, 2017 - Venice, Italy – Technical Program Committee
* The Tenth International Conference on Advanced Geograhic Information Systems, Applications, and Services, GEOProcessing 2018, March 25 - 29, 2018 - Rome, Italy – Technical Program Committee
* The Ninth International Conference on Advanced Geographic Information Systems, Applications, and Services, GEOProcessing 2017, March 19 - 23, 2017 - Nice, France – Technical Program Committee
* The Tenth International Conference on Information, Process, and Knowledge Management, eKNOW 2018, March 25 - 29, 2018 - Rome, Italy – Technical Program Committee
* The Ninth International Conference on Information, Process, and Knowledge Management, eKNOW 2017, March 19 - 23, 2017 - Nice, France – Technical Program Committee
* The Nineth International Conference on Cloud Computing, GRIDs, and Virtualization, CLOUD COMPUTING 2018, February 18 - 22, 2018 – Barcelona, Spain – Technical Program Committee
* The Eighth International Conference on Cloud Computing, GRIDs, and Virtualization, CLOUD COMPUTING 2017, February 19 - 23, 2017 - Athens, Greece – Technical Program Committee
* The Eleventh International Conference on Advances in Computer-Human Interactions, ACHI 2018, March 25 - 29, 2018 - Rome, Italy – Technical Program Committee
* The Tenth International Conference on Advances in Computer-Human Interactions, ACHI 2017, March 19 - 23, 2017 - Nice, France – Technical Program Committee
* The Nineteenth International Conference on Networks, ICN 2020, February 23 - 27, 2020 - Lisbon, Portugal – Technical Program Committee
* The Tenth International Conference on Adaptive and Self-Adaptive Systems and Applications, ADAPTIVE 2018, February 18 - 22, 2017 - Barcelona, Spain – Technical Program Committee
* The Ninth International Conference on Adaptive and Self-Adaptive Systems and Applications, ADAPTIVE 2017, February 19 - 23, 2017 - Athens, Greece – Technical Program Committee
* The Seventeenth International Conference on Networks, ICN 2018, April 22 - 26, 2018 - Athens, Greece – Technical Program Committee
* The Sixteenth International Conference on Networks, ICN 2017, April 23 - 27, 2017 - Venice, Italy – Technical Program Committee
* The First International Conference on Advances in Signal, Image and Video Processing, SIGNAL 2016, June 26 - 30, 2016 - Lisbon, Portugal – Technical Program Committee
* The Twelfth International Conferences on Advances in Multimedia, MMEDIA 2020, February 23 - 27, 2020 - Lisbon, portugal – Technical Program Committee
* The Tenth International Conferences on Advances in Multimedia, MMEDIA 2018, April 22 - 26, 2018 - Athens, Greece – Technical Program Committee
* The Ninth International Conferences on Advances in Multimedia, MMEDIA 2017, April 23 - 27, 2017 - Venice, Italy – Technical Program Committee
* The Tenth International Conference on Advanced Cognitive Technologies and Applications, COGNITIVE 2018, February 18 - 22, 2018, Barcelona, Spain Portugal – Technical Program Committee