PERSONAL INFORMATION

Alin-Mihai CĂILEAN

alinc@eed.usv.ro

Sex Male | Date of birth 06/04/1986 | Nationality Romanian

RELEVANT WORK EXPERIENCE

01.10.2017 - present

Senior Lecturer

Ștefan cel Mare University of Suceava, Faculty of Electrical Engineering and Computer Science, Department of Computers, Electronics and Automation.

Classes (selection):

- Optical communications and WDM systems (course and laboratory);
- Optoelectronics (laboratory);
- Scientific creativity, technical communication and innovation (seminar activities).

26.07.2018 – 30.09.2021

Research project coordinator / Research Fellow / Research Fellow in applied electronics

Coordinator of the research project "*Intelligent visible light communication systems with applications in roadside assistance and active safety*", component project within the complex project "*Hybrid platform for visible light and augmented reality communications for the development of intelligent active assistance and safety systems of motor vehicles*", project PN-III-P1-1.2-PCCDI-2017-0917, contract no. 21PCCDI / 2018.

Project budget: approx. 900,000.00 Euros (4,325,472.00 Lei) financed by the Executive Unit for Financing Higher Education, Research, Development and Innovation, Romania; Component project value: 220,000.00 Euro (1,085,593.00 lei).

Responsibilities:

- Coordination of research activities;
- Project management activities;
- Research & Development activities: development of context-adaptive Visible Light Communication (VLC) systems for road safety;
- Research dissemination activities.

31.12.2015 - 31.12.2018

Scientific researcher

Integrated Center for research, development and innovation in Advanced Materials, Nanotechnologies, and Distributed Systems for fabrication and control, "Stefan cel Mare" University Suceava.

Main activities:

- ***Research & Development*** in visible light communication based vehicle safety applications;
- Perform ***simulations*** and ***analytical evaluations*** of VLC systems, requirements, working scenarios, etc.;
- Write ***high quality technical research papers***.

26.01.2017 – 02.07.2018

Postdoctoral researcher

Postdoctoral researcher in the project "*Automotive Visible Light Communication System with Environment-Adaptive capabilities*" (Project number PN-III-P2-2.1-PED-2016-2011, contract 36 PED / 2017, budget ≈130,000.00 Euro, financed by Executive Unit for the Financing of Higher Education, Research, Development and Innovation, Romania);

- Co-author of the project proposal;
- Research & Development of environment-adaptive VLC systems for road safety.

01.10.2016 – 26.01.2017

Assistant professor

Ştefan cel Mare University of Suceava, Faculty of Electrical Engineering and Computer Science, Department of Computers, Electronics and Automation.

01.10.2011 – 12.2014 / 01.2015

Research assistant

- Saint Quentin en Yvelines University, Versailles Systems Engineering Laboratory, Velizy, France;
- "Ştefan cel Mare" University of Suceava, Department of Computers, Electronics and Automation.

EDUCATION AND TRAINING

04.2019-04.2021

Entrepreneurial postdoctoral researcher within the project "DECIDE - Development through entrepreneurial education and innovative doctoral and postdoctoral research"

"Ştefan cel Mare" University of Suceava;

Research domain: Entrepreneurial education focused on Electronic Engineering and Telecommunications

Research project title: Development, implementation and testing of solutions to improve the performance of visible light communication systems used in road safety applications.

2011-2014/2015

PhD in Electrical Engineering, Electronics, Photonics and Systems/ Electronics and Telecommunications

University of Versailles Saint Quentin en Yvelines, Versailles, France and "Stefan cel Mare" University Suceava (joint-thesis - 21 months at Versailles (France) and 18 months at Suceava (Romania)).

- The thesis was conducted within an ***industrial project*** (Co-Drive - Co-Pilot for an intelligent road and vehicular communication system) project funded by ***Valeo Industry***.
- The PhD thesis aimed at ***developing, implementing and enhancing a visible light communications system designed for road safety applications***.

2009-2011

M.Sc. in Computer and Communication Networks

"Stefan cel Mare" University Suceava, Department of Electrical Engineering and Computer Science.

2005-2009

B.Sc. in Applied electronics

"Stefan cel Mare" University Suceava, Department of Electrical Engineering and Computer Science.

PERSONAL SKILLS

Mother tongue(s): Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B1	B1	C1
French	A1	A2	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Technical skills and competences

- Visible Light Communication Systems and Intelligent Transport Systems;
- Communication-based vehicle safety systems;
- Digital and analogue electronics;
- Optoelectronics and photonics - experience in developing and testing smart lighting systems;
- Experimental measurements and testing;
- Digital signal processing.

Research skills and competences

- Experience in developing research project proposals;
- Experience in implementing and coordinating research projects;
- Ability to communicate and write scientific research and synthesis articles and papers;
- Experience in working on research projects, teamwork experience and scientific reports writing experience;
- Laboratory research experience as well as in data collection and interpretation, statistical processing;
- Experience in presenting scientific papers at international conferences.

Other skills and competences

- Good organizational and planning skills;
- Objectivity and equidistance in decision making;
- Orientation towards results;
- Ability to organize and motivate people;
- Analytical thinking.

Driving license

- B

ADDITIONAL INFORMATION

Project experience

- 26.07.2018 - 30.09.2021: Coordinator of the research project "*Intelligent visible light communication systems with applications in roadside assistance and active safety*", component project within the complex project "*Hybrid platform for visible light communications and augmented reality for development of intelligent systems for active assistance and safety of motor vehicles*", (project PN-III-P1-1.2-PCCDI-2017-0917, contract no. 21PCCDI / 2018), complex project budget 900,000 Euro (4.3 million RON), component project budget 155,000 Euro (754,717 RON).
- 26.01.2017 - 02.07.2018: Postdoctoral researcher within the project "*Automotive Visible Light Communication System with Environment-Adaptive capabilities*", budget 130,000 Euro, funded by the Executive Unit for Financing Higher Education, Research, Development and Innovation, Romania); co-author of the project proposal.
- 19.04.2019 - 18.04.2021: Entrepreneurial postdoctoral researcher within the project "*DECIDE - Development through entrepreneurial education and innovative doctoral and postdoctoral research*".
- 16.07.2019 - 31.12.2020: Researcher within the project "*Development of adaptive car communication systems with functions for measuring the distance between vehicles, based on visible light technologies [AutoVLC-R]*" - bilateral cooperation project between the Stefan cel Mare University of Suceava and Université de Versailles Saint-Quentin-en-Yvelines (Université Paris - Saclay); co-author of the project proposal.
- 01.05.2014 - 30.09.2014: "*Sustainable performance in doctoral and post-doctoral research – PERFORM*", Contract no. POSDRU/159/1.5/S/138963, Project co-financed by European Social Fund through the Sectorial Operational Program, Human Resources Development 2007-2013. Priority Axis 1 - Education and training in support of economic growth and development of a knowledge based society. Major intervention field 1.5 - "Doctoral and postdoctoral programs in support of research" (01.01 - 09.2014).
- 01.10.2011 – 31.12.2012: Co-Drive Project - "*Co-Pilot for an intelligent road and vehicular communication system*", (***6.8 million euro budget***).

Publication activity

- Author of more than 35 ISI indexed articles published in highly prestigious journals and conferences such as an article in *IEEE Communications Surveys and Tutorials* - First Place Journal in Telecommunications and Computer Science; an article in *IEEE Communications Magazine* - second Place Journal in Telecommunications and Electrical and Electronic Engineering; Three articles in the *IEEE Sensors Journal* (Q1 Journal); Several articles in *MDPI Sensors Journal* (Q1 Journal).
- More than 930 citations and Hirsch Index = 16, (according to Google Scholar);
- Presentations in highly prestigious international conferences such as 1st Global LiFi Congress, 2018, Paris, France.

Awards, Prizes and Recognition

- Nominalized in the ***World's top 2% Scientists*** list published by Stanford University and Elsevier – October 2021;
- Laureate of the ***2021 Université Paris-Saclay Jean d'Alembert fellowship program*** – June 2021;
- *University of Suceava* ***Researcher of the year 2016*** – prize awarded in May 2017;

Editor and Reviewer

- Topic Editor and Special Issue Editor for MDPI Sensors Journal
- Reviewer for highly prestigious journals and conferences: IEEE Communications Surveys and Tutorials (*Q1 Journal*), IEEE Communications Magazine (*Q1 Journal*), IEEE Access (*Q1 Journal*), MDPI Sensors Journal (*Q1 Journal*), IEEE Sensors Journal (*Q1 Journal*), IEEE Photonics Journal (*Q1 Journal*), IEEE Vehicular Technology Magazine (*Q1 Journal*).

References

- Prof. Luc Chassagne (luc.chassagne@uvsq.fr) - University of Versailles Saint Quentin en Yvelines, Versailles, France.
- Ass. Prof. Barthelemy Cagneau (barthelemy.cagneau@uvsq.fr) - University of Versailles Saint Quentin en Yvelines, Versailles, France.
- Prof. Valentin Popa (valentin@eed.usv.ro) - "Stefan cel Mare" University Suceava.
- Prof. Mihai Dimian (dimian@usm.ro) - "Stefan cel Mare" University Suceava.
- Prof. Constantin Filote (filote@eed.usv.ro) - "Stefan cel Mare" University Suceava.

ANNEXES

- Publications list.

17.12.2021

Dr. ing. Alin-Mihai CĂILEAN – Publication List

Patents

[1] **Alin-Mihai Căilean**, Mihai Dimian, Adrian Done, Elena Daniela Olariu, Lucian Nicolae Cojocariu "*Intelligent traffic light with data transmission capability"*. Patent RO132689B1 from 30.07.2020, IPC:G08G1/095, State Office for Inventions and Trademarks, Bucharest, Romania.

[2] **Alin-Mihai Căilean**, Mihai Dimian, Adrian Done, Elena Daniela Olariu *"Noise source isolation system that helps improve the performance of VLC receivers"*, Patent request nr. A 2019 00869/05.12.2019, State Office for Inventions and Trademarks, Bucharest, Romania.

ISI Journals

[3] C. Beguni, **A.-M. Căilean**, S.-A. Avătămăniței, and M. Dimian, "Analysis and Experimental Investigation of the Light Dimming Effect on Automotive Visible Light Communications Performances," *Sensors*, vol. 21, no. 13, p. 4446, Jun. 2021. https://doi.org/10.3390/s21134446 (***Q1 Journal - ISI Impact factor 2021-2022 = 3,576***)

[4] S.-A. Avătămăniței, C. Beguni, **A.-M. Căilean**, M. Dimian, V. Popa, "Evaluation of Misalignment Effect in Vehicle-to-Vehicle Visible Light Communications: Experimental Demonstration of a 75 Meters Link," in *Sensors*, vol. 21, 3577. https://doi.org/10.3390/s21113577 (***Q1 Journal - ISI Impact factor 2021-2022 = 3,576***)

[5] **A.-M. Căilean,** M. Dimian, and V. Popa, "Noise-Adaptive Visible Light Communications Receiver for Automotive Applications: A Step Toward Self-Awareness," Sensors, vol. 20, no. 13, p. 3764, Jul. 2020. (***Q1 Journal - ISI Impact factor 2020-2021 = 3,275***) https://www.mdpi.com/1424-8220/20/13/3764

[6] S.-A. Avătămăniței**, A.-M. Căilean**, A. Done, M. Dimian, V. Popa, and M. Prelipceanu, "Design and Intensive Experimental Evaluation of an Enhanced Visible Light Communication System for Automotive Applications," *Sensors*, vol. 20, no. 11, p. 3190, Jun. 2020. (***Q1 Journal - ISI Impact factor 2020-2021 = 3,275***) https://www.mdpi.com/1424-8220/20/11/3190

[7] S. A. Avătămăniței, **A.-M. Căilean**, A. Done, M. Dimian, and M. Prelipceanu, "Noise Resilient Outdoor Traffic Light Visible Light Communications System Based on Logarithmic Transimpedance Circuit: Experimental Demonstration of a 50 m Reliable Link in Direct Sun Exposure," *Sensors*, vol. 20, no. 3, p. 909, Feb. 2020.. (***Q1 Journal - ISI Impact factor 2020-2021 = 3,275***) https://www.mdpi.com/1424-8220/20/3/909

[8] M. Dimian, **A.-M. Cailean**, A. Done, S. Vlad și P. Andrei, "Visible light communication sensors with adaptive hysteretic circuits for automotive applications", Physica B, DOI: Vol. 549, pp. 31-34, Nov. 2018, 10.1016/j.physb.2017.09.045, (***ISI Impact factor 2017-2018 = 1,453***) https://www.sciencedirect.com/science/article/pii/S0921452617306294

[9] A. Done**, A.-M. Cailean**, A. Graur, "Active Frequency Stabilization Method for Sensitive Applications Operating in Variable Temperature Environments," in *Advances in Electrical and Computer Engineering*, vol.18, no.1, pp.21-26, 2018, doi:10.4316/AECE.2018.01003 1600206 (***ISI Impact factor 2017-2018 = 0,699***) http://www.aece.ro/abstractplus.php?year=2018&number=1&article=3

[10] **A. M. Căilean** and M. Dimian, "Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey," in *IEEE Communications Surveys & Tutorials*, vol. 19, no. 4, pp. 2681-2703, Fourthquarter 2017. doi: 10.1109/COMST.2017.2706940, (***Q1 Journal - ISI Impact factor = 20.23, SRI = 20.27***). https://ieeexplore.ieee.org/document/7932857/

[11] **A. M. Cailean** and M. Dimian, "Impact of IEEE 802.15.7 Standard on Visible Light Communications Usage in Automotive Applications," in IEEE Communications Magazine, vol. 55, no. 4, pp. 169-175, April 2017. doi: 10.1109/MCOM.2017.1600206 (***Q1 Journal - ISI Impact factor 2017-2018 = 9.27, SRI = 2.939***) https://ieeexplore.ieee.org/document/7901496/

[12] **A. M. Căilean** and M. Dimian, "Toward Environmental-Adaptive Visible Light Communications Receivers for

Automotive Applications: A Review," *IEEE Sensors Journal*, vol. 16, no. 9, pp. 2803-2811, May1, 2016. doi: 10.1109/JSEN.2016.2529019 (***Q1 Journal - ISI Impact Factor 2016-2017 = 2.512***); https://ieeexplore.ieee.org/document/7405258/

[13] **A. M. Căilean**, M. Dimian, V. Popa, L. Chassagne and B. Cagneau, "Novel DSP Receiver Architecture for Multi-Channel Visible Light Communications in Automotive Applications," *IEEE Sensors Journal*, vol. 16, no. 10, pp. 3597-3602, May15 2016. doi: 10.1109/JSEN.2016.2529654 (***Q1 Journal - ISI Impact Factor 2016-2017 = 2.512***); https://ieeexplore.ieee.org/document/7406675/

[14] **A. M. Căilean**, B. Cagneau, L. Chassagne, M. Dimian and V. Popa, "Novel Receiver Sensor for Visible Light Communications in Automotive Applications," in *IEEE Sensors Journal*, vol. 15, no. 8, pp. 4632-4639, Aug. 2015.doi: 10.1109/JSEN.2015.2425473 ***(Q1 Journal - ISI Impact factor = 1.76, SRI = 0.562).*** https://ieeexplore.ieee.org/document/7091867/

ISI / IEEE Explore International Conferences

[15] **A. -M. Căilean**, C. Beguni, S. -A. Avătămăniţei and M. Dimian, "Experimental Demonstration of a 185 meters Vehicular Visible Light Communications Link," *2021 IEEE Photonics Conference (IPC)*, 2021, pp. 1-2, doi: 10.1109/IPC48725.2021.9592878. https://ieeexplore.ieee.org/document/9592878

[16] **A. -M. Căilean**, S. -A. Avătămăniţei, C. Beguni, V. Popa and M. Dimian, "Experimental Demonstration of a 188 meters Infrastructure-to-Vehicle Visible Light Communications Link in Outdoor Conditions," *2021 IEEE Sensors Applications Symposium (SAS)*, 2021, pp. 1-6, doi: 10.1109/SAS51076.2021.9530174. https://ieeexplore.ieee.org/document/9530174

[17] S. -A. Avătămăniţei, **A. -M. Căilean**, C. Beguni, V. Popa and M. Dimian, "Experimental Investigation of Visible Light Communications Coverage in Vehicle-to-Vehicle Applications," *2021 International Conference on Artificial Intelligence and Computer Science Technology (ICAICST)*, 2021, pp. 135-140, doi: 10.1109/ICAICST53116.2021.9497804. https://ieeexplore.ieee.org/document/9497804

[18] S. -A. Avătămăniţei, **A. -M. Căilean**, A. Done, M. Dimian and V. Popa, "Experimental Evaluation of Traffic Light to Vehicle Visible Light Communications in Snowfall Conditions," *2020 7th International Conference on Control, Decision and Information Technologies (CoDIT)*, Prague, Czech Republic, 2020, pp. 693-696, doi: 10.1109/CoDIT49905.2020.9263837. https://ieeexplore.ieee.org/document/9263837

[19] S. Avătămăniţei, **A. Căilean**, C. Beguni, M. Dimian and V. Popa, "Analysis Concerning the Usage of Visible Light Communications in Automotive Applications: Achievable Distances vs. Optical Noise," 2020 International Conference on Development and Application Systems (DAS), Suceava, Romania, 2020, pp. 121-126, doi: 10.1109/DAS49615.2020.9108964. https://ieeexplore.ieee.org/document/9108964

[20] C. Beguni, **A. Căilean**, S. Avătămăniţei and M. Dimian, "Photodiode Amplifier with Transimpedance and Differential Stages for Automotive Visible Light Applications," 2020 International Conference on Development and Application Systems (DAS), Suceava, Romania, 2020, pp. 127-132, doi: 10.1109/DAS49615.2020.9108928. https://ieeexplore.ieee.org/document/9108928

[21] S. Avătămăniţei, **A. Căilean**, A. Done, A. Căpitan and V. Popa, "Indoor Visible Light Communications demonstration: University Campus Radio Station transmitted through the lighting system," *2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2019, pp. 1-6, doi: 10.1109/ISEEE48094.2019.9136137. https://ieeexplore.ieee.org/document/9136137

[22] Cătălin Beguni, Sebastian-Andrei Avătămăniţei, **Alin-Mihai Căilean**, Eduard Zadobrischi, Mihai Dimian, Hongyu Guan and Luc Chassagne “"Toward a mixed visible light communications and ranging system for automotive applications," *2019 6th International Symposium on Electrical and Electronics Engineering (ISEEE)*, Galati, Romania, 2019, pp. 1-6, doi: 10.1109/ISEEE48094.2019.9136155. https://ieeexplore.ieee.org/document/9136155

[23] E. Zadobrischi, L. Cosovanu, S. Avătămăniţei and **A. Căilean**, "Complementary Radiofrequency and Visible Light Systems for Indoor and Vehicular Communications," 2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 2019, pp. 419-423, doi: 10.1109/ICSTCC.2019.8885570. https://ieeexplore.ieee.org/document/8885570

[24] E. Zadobrischi, S. Avătămănitei, **A. Căilean**, M. Dimian and M. Negru, "Toward a hybrid vehicle communication platform based on VLC and DSRC technologies," 2019 *IEEE 15th International Conference on Intelligent Computer Communication and Processing (ICCP)*, Cluj-Napoca, Romania, 2019, pp. 103-107, doi: 10.1109/ICCP48234.2019.8959672. https://ieeexplore.ieee.org/document/8959672

[25] S.-A. Avătămăniţei, **A. M. Cailean**, E. Zadobrischi, A. Done, M. Dimian, V. Popa, "Intensive Testing of Infrastructure-to-Vehicle Visible Light Communications in Real Outdoor Scenario: Evaluation of a 50 meters link in Direct Sun Exposure," *2019 Global LIFI Congress (GLC)*, Paris, 2018, pp. 1-4. https://ieeexplore.ieee.org/document/8864129

[26] A. Done, E.-D. Olariu, **A. M. Cailean**, S.-A. Avătămăniţei, "Green power supply for an intelligent traffic light enhanced with visible light communications capabilitie," *2018 International Conference on Development and Application Systems (DAS)*, Suceava, 2018, pp. 114-119. DOI: 10.1109/DAAS.2018.8396082 https://ieeexplore.ieee.org/document/8396082/

[27] C.E. Lesanu, A. Done**, A. M. Cailean**, A. Graur, "Vertical polarized antennas for low-VHF radio meteor detection," *2018 International Conference on Development and Application Systems (DAS)*, Suceava, 2018, pp. 93-98. DOI: 10.1109/DAAS.2018.8396078 https://ieeexplore.ieee.org/document/8396078/

[28] **A. M. Cailean**, M. Dimian and A. Done, "Enhanced design of visible light communication sensor for automotive applications: Experimental demonstration of a 130 meters link," *2018 Global LIFI Congress (GLC)*, Paris, 2018, pp. 1-4. doi: 10.23919/GLC.2018.8319100 https://ieeexplore.ieee.org/document/8319100/

[29] A. Done, C. E. Lesanu, **A. M. Căilean**, A. Graur and M. Dimian, "Implementation of an on-line remote control ground station for LEO satellites," *2017 21st International Conference on System Theory, Control and Computing (ICSTCC)*, Sinaia, 2017, pp. 855-859. doi: 10.1109/ICSTCC.2017.8107144 https://ieeexplore.ieee.org/document/8107144/

[30] **A. M. Cailean**, M. Dimian, V. Popa, L. Chassagne and B. Cagneau, "Digital Signal Processing Sensor for Automotive Visible Light Communications Applications," *2017 New Generation of CAS (NGCAS)*, Genova, 2017, pp. 225-228. doi: 10.1109/NGCAS.2017.53 https://ieeexplore.ieee.org/document/8052310/

[31] A. Done, **A. M. Căilean**, C. E. Leşanu, M. Dimian and A. Graur, "Design and implementation of a satellite communication ground station," *2017 International Symposium on Signals, Circuits and Systems (ISSCS)*, Iasi, 2017, pp. 1-4. doi: 10.1109/ISSCS.2017.8034925 https://ieeexplore.ieee.org/document/8034925/

[32] A. Done**, A. M. Căilean**, C. E. Leşanu, M. Dimian and A. Graur, "Considerations on ground station antennas used for communication with LEO satellites," *2017 International Symposium on Signals, Circuits and Systems (ISSCS)*, Iasi, 2017, pp. 1-4. doi: 10.1109/ISSCS.2017.8034912 https://ieeexplore.ieee.org/document/8034912/

[33] **A. M. Cailean**, B. Cagneau, L. Chassagne, V. Popa and M. Dimian, "A survey on the usage of DSRC and VLC in communication-based vehicle safety applications," *2014 IEEE 21st Symposium on Communications and Vehicular Technology in the Benelux (SCVT)*, Delft, 2014, pp. 69-74. doi: 10.1109/SCVT.2014.7046703, https://ieeexplore.ieee.org/document/7046710/

[34] **A. M. Cailean**, B. Cagneau, L. Chassagne, V. Popa and M. Dimian, "Design and performance evaluation of a DSP visible light communication receiver," *2014 IEEE 21st Symposium on Communications and Vehicular Technology in the Benelux (SCVT)*, Delft, 2014, pp. 30-34.doi: 10.1109/SCVT.2014.7046703 https://ieeexplore.ieee.org/document/7046703/

[35] **A. M. Cailean**, B. Cagneau, L. Chassagne, M. Dimian and V. Popa, "Miller code usage in Visible Light Communications under the PHY I layer of the IEEE 802.15.7 standard," *2014 10th International Conference on Communications (COMM)*, Bucharest, 2014, pp. 1-4. doi: 10.1109/ICComm.2014.6866699

https://ieeexplore.ieee.org/document/6866699/

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