

**Candidat: Dr. ing. AVĂTĂMĂNIȚEI Sebastian-Andrei**

**ISI Journals**

- [1] **Avătămăniței, S.-A.**; Căilean, A.-M.; Done, A.; Dimian, M.; Popa, V.; Prelipceanu, M. Design and Intensive Experimental Evaluation of an Enhanced Visible Light Communication System for Automotive Applications. *Sensors* 2020, 20, 3190. (*ISI Impact factor 2019-2020 = 3,031*) <https://www.mdpi.com/1424-8220/20/11/3190>
- [2] **Avătămăniței, S.-A.**; Căilean, A.-M.; Done, A.; Dimian, M.; Prelipceanu, M. 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* 2020, 20, 909. (*ISI Impact factor 2019-2020 = 3,031*) <https://www.mdpi.com/1424-8220/20/3/909>
- [3] **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,". *Sensors*, vol. 21, 3577. <https://doi.org/10.3390/s21113577>
- [4] 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)
- [5] Alin-Mihai Căilean; Cătălin Beguni; **Sebastian-Andrei Avătămăniței**; Mihai Dimian; Valentin Popa. Design, Implementation and Experimental Investigation of a Pedestrian Street Crossing Assistance System Based on Visible Light Communications. *Sensors* 2022, 22, 5481. <https://doi.org/10.3390/s22155481>
- [6] Cătălin Beguni; Alin-Mihai Căilean; **Sebastian-Andrei Avătămăniței**; Eduard Zadobrischi; Raul Stoler; Mihai Dimian; Valentin Popa; Bastien Béchadergue; Luc Chassagne. In-Vehicle Visible Light Communications Data Transmission System Using Optical Fiber Distributed Light: Implementation and Experimental Evaluation. *Sensors* 2022, 22, 6738. <https://doi.org/10.3390/s22186738>

**ISI/ IEEE Explore International Conferences**

- [7] A. -M. Căilean, C. Beguni, **S. -A. Avătămăniței** 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>
- [8] **S.-A. Avatamanitei**, 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>



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

### **Teza de doctorat**

Teză de doctorat: „*Contribuții privind dezvoltarea sistemelor inteligente de comunicații prin lumină vizibilă pentru siguranța autovehiculelor*”, Calificativ: *Excelent*; Distincție: *Summa cum laudae*. Doctorat în Inginerie Optoelectronică/ Electronică și Telecomunicații - Universitatea "Ștefan cel Mare" Suceava, Departamentul de Calculatoare, Electronică și Automatică, domeniul *Inginerie Electronică și Telecomunicații*.

