

ADMISSION TO DOCTORAL STUDIES

Session September 2026

Field of doctoral studies: Automotive Engineering

Doctoral supervisor: **Prof. dr. ing. Florin Gîrbacia**

TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES

TOPIC 1: <i>Development of a hybrid ADAS system based on human biopotentials</i>
Contents / Main aspects to be considered <i>The objective of this PhD thesis will be to develop new biopotential-based multimodal hybrid interfaces for ADAS systems</i>
Recommended bibliography: - Peng, Y., Xu, Q., Lin, S., Wang, X., Xiang, G., Huang, S., & Fan, C. (2022). The application of electroencephalogram in driving safety: current status and future prospects. <i>Frontiers in psychology</i> , 13. - Ban, S., Lee, Y. J., Kim, K. R., Kim, J. H., & Yeo, W. H. (2022). Advances in Materials, Sensors, and Integrated Systems for Monitoring Eye Movements. <i>Biosensors</i> , 12(11), 1039. - Stampf, A., Colley, M., & Rukzio, E. (2022). Towards Implicit Interaction in Highly Automated Vehicles-A Systematic Literature Review. <i>Proceedings of the ACM on Human-Computer Interaction</i> , 6(MHCI), 1-21.
<input checked="" type="checkbox"/> Scientific Doctorate <input type="checkbox"/> Professional Doctorate
<input checked="" type="checkbox"/> without tuition fee (state budget funded) <input type="checkbox"/> with tuition fee or with funding from other sources than the state budget

Doctoral supervisor,

Prof. Dr. Florin Gîrbacia

Signature

Coordinator of the field of doctoral studies,

Prof. Dr. Adrian Şoica

Signature