



**ADMISSION TO DOCTORAL STUDIES**

**Session September 2022**

**Field of doctoral studies: Computers and Information Technology**

**Doctoral supervisor: prof.dr.eng. Sorin-Aurel Moraru**

**TOPICS FOR THE ADMISSION TO DOCTORAL STUDIES**

**TOPIC 4: *User Interaction for device software update***

**Content / Main aspects to be considered:** to improve user experience on updating routines; to assess the users current experience to find the interaction flaws of the interface that makes users to take certain actions; to propose a new user interface design for updates, presented to the user by using user experience principles and micro interactions features; automatic data collection method to be used for identifying the interaction of the users; statistical software and coded survey answers to be used for analysing the data.

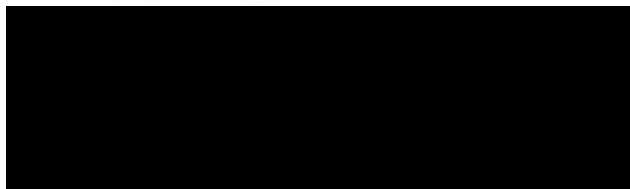
**Recommended bibliography:**

- [1] Shneiderman, B., Plaisant, C., Cohen, M., Jacobs, S., Niklas Elmqvist, N., Diakopoulos, N. (2018), Designing the User Interface, Global Edition - Strategies for Effective Human-Computer Interaction, 6th Edition, Pearson.
- [2] CHlUXiD'19: Proceedings of the 5th International ACM In-Cooperation HCI and UX Conference (2019), Association for Computing Machinery, NY.
- [3] Tales of Software Updates: The process of updating software. Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (2016), Association for Computing Machinery, NY, pages 3215–3226.
- [4] Fagan, M., Mohammad, M.H.K., Buck, N. (2015), A study of user's experiences and beliefs about software update messages. Computers in Human Behavior, pages 504–519.
- [5] Vaniea, K.E., Rader, E., Wash. R. (2014), Betrayed by Updates: How Negative Experiences Affect Future Security. In Proceedings of the 32nd Annual ACM Conference on Human Factors in Computing Systems, NY, Pages 2671–2674.

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