



Long Bio

Adela Ademaj is one of the selected Early Stage Researchers (ESR) of Hyperboost Project. She is a PhD student at University of Zurich and works in the Radio-Onkologie-Zentrum, Kantonsspital Aarau (KSA) as part of the project “Analyze thermal enhancement parameters from clinical studies”. Adela Ademaj received her bachelor’s degree in Biomedical Engineering at Bahcesehir University with high distinction in June 2008. Since she was an undergraduate student, Adela has been keen on cancer scientific research. During her bachelor studies, she initiated her first scientific research project on medical image processing aiming to improve the cancer detection process. Results of this work has been published in 23rd Conference on Medical Image Understanding and Analysis (MIUA). Moreover, she has completed two internships as a clinical engineering intern at University Clinical Center of Kosovo in July 2016 and as a healthcare information technology intern at VAMED Company in August 2017. In August 2020, Adela earned her master’s degree at Ruprecht Karl University of Heidelberg with a thesis entitled “Definition of Dosimetric Criteria for a treatment planning system in Radiation Therapy”. Within her master thesis project, she analysed retrospectively patient treatment data based on different clinical study trials (including RTOG, CHHiP, DOSIS RCT) to introduce the functionality of dosimetric criteria into the clinical routine for advancing the procedure of treatment plan evaluation in radiotherapy. Throughout her master studies, Adela gained a professional training in academic and clinical environment by carrying out successful projects not only in Radiation Oncology Department, but also in Computer Assisted Clinical Medicine at University Hospital Mannheim. Currently, her research work, as part of Hyperboost project, focuses on analysis and correlation of patient treatment data obtained by performing retrospective and prospective clinical studies, including clinical outcomes for patients treated with combined hyperthermia and radiotherapy, for modelling and evaluation in hyperthermia treatment planning system.

Keywords: Radiotherapy, Hyperthermia, Medical Image Processing