

FOREWORD

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“High science” or just-in-time problem solving? This question is often discussed within the Hungarian higher education community since year 2005, when MSc and BSc level higher education were redefined in the new Law on Higher Education. In Hungary there are institutions named “főiskola” which provide exclusively BSc diplomas. This is the case of Dennis Gabor College too. In respect of students number vs. total number of students in Hungarian higher education our participation is about 1%, but there are several other similar schools as we are, so it is important to redefine the role of such schools in the scientific research. In our opinion schools which are providing only BSc level diplomas should be interested in application-level researches or developments, which activity should be acknowledged both by the law and the HE community. These two actors are far to be independent one from another. The law-makers are often helped by advisors from the universities, which are interested in the “high science” and not interested in the application and development level of sciences. Accordingly the requirements defined in the law against HE institutions are reflecting more the opinion of universities than that of colleges like we.

There is a more than 60 years old tradition on the Hungarian HE system the so called National Council of Student Research Societies with Hungarian abbreviation OTDT. This organization holds biannual conferences on the researches of all students from all the Hungarian HE.

Outstanding research projects are presented on these conferences by MSc and BSc students also. But BSc students are in disadvantageous position relative to MSc students, due to the differences of their study curriculum and length of their studies. However the final results make allowance for the ranking of schools, and it has a considerable influence on their governmental support. We consider this situation unfair, and we do our best to change it in favour of schools which are dealing with BSc level teaching.

Why we consider that the application level of sciences should be appreciated more highly than today? Because in Hungary we develop an economy system which serves more the practical solutions of practical problems which is cold just-in-time problem solving. The role of colleges is to provide qualified manpower for the economy.

In the present issue of our journal we selected papers on outstanding applications developed at various universities in Europe. These applications are dealing with solutions of engineering problems as well as pure IT problems. In these articles the authors present concrete solving of concrete problems. We are deeply convinced in utility of these application type researches and we urge our students to take part in such projects.

On behalf of the Editorial Body I wish a pleasant reading of our journal.