Overview on Training Needs, Challenges and Achievements towards “Dependable Embedded Systems Master Courses and Professional Industrial Training”

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Abstract

DECOS (Dependable Embedded Components and Systems) is a partially funded Integrated Project of the EU-IST 6th Framework Programme (EU-FP6-IST-511764). Due to its relevance, in DECOS education and training activities are managed in a dedicated sub-project together with standardization, policy and gender issues. Since Education and training are a very important part in promoting advanced dependable embedded systems technology, efforts towards developing master courses covering major issues of dependable embedded systems development is one of the tasks in DECOS. Two deliverables have been issued until now, one presenting an overview on the “state of the art” in dependability and embedded systems education and training (with considerations regarding credits as well, results of ARTIST network-of-excellence and the AMSD project), another one achievements of DECOS (university) partners in developing lectures and specific lab trainings (e.g. “Seamless Campus: Distance Lab”, TU Vienna).

At DECOS/ERCIM Workshops in co-operation with several established conferences (Euromicro, SAFECOMP) educational issues were an important part of the workshops, including “gender issues” as well. The major results of these workshops and panel discussions are presented in short to include significant results from outside the DECOS community. Several partners have included DECOS objectives and methodology in their university courses. But not only academic university education is covered but also professional training for industrial professionals, evening courses, summer schools etc., meeting the specific requirements and needs of industry. The presentation should provide a view on training needs, challenges and achievements towards training and education in the area of resilient computing from outside, from a projects and industrial view point.