

Taxonomy of Research in Digital Design

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The subject of the talk is research on field of Digital Design. A new conceptual framework for the subject is presented. According to the proposed framework, the academic studies in Digital Design are considered as a combination of aims and methods of the corresponding researches. Three main types of the research are proposed and discussed: so-called root, body and branch researchers. The root researches actually belong to the pure math; they form the Digital Design as an academic discipline. The body researches comprise fundamental studies of the Digital Design itself, enriching the discipline. The branch researches include applied engineering studies caused by and connected with emerging industrial challenges. The talk includes a number of illustrative examples of the above research types. The talk formulates a taxonomically justified approach for evaluating future directions in Digital Design studies.