About edaWorkshop15 and CATRENE DTC

The edaWorkshop is the premier German event on “Electronics, Design and Applications” (EDA). It offers excellent opportunities for the publication and discussion of application-oriented EDA research results.

The edaWorkshop is also the primary platform for presenting and exchanging solution approaches and results of those research projects in the area of “Electronics, Design and Applications”, which are funded by the BMBF (Federal Ministry of Education and Research, Germany). It promotes communication between experts and public authorities, and supports the dissemination of the results of publicly-funded projects. The edaWorkshop is organized jointly by the edacentrum and the GI/GMM/ITG RSS Steering Group for “Computer-aided Circuit and System Design” and is supported by the BMBF.

Like every two years since 2009, the edaWorkshop13 will co-locate and share a common day – including keynotes, sessions and the social event – with the annual CATRENE Design Technology Conference (CATRENE DTC), successor of the MEDEA+ Design Automation Conference. The CATRENE DTC is the meeting point of Europe’s scientists and experts in application-oriented design. Both events are attracting European experts in industry and academia and consequently the organizers decided to co-locate the workshop and the conference every two years.

The mix of participants from industry and academia creates ideal opportunities for a professional exchange of ideas on a scientific basis. This interaction paves the way for industry to benefit from research results. It promotes communication between EDA experts and public authorities, and supports the dissemination of the results of publicly-funded projects.

The three-day event is a balanced combination of information and communication. It offers not only a wide range of discussions on specialized subjects and EDA research projects, but also provides plenty of networking opportunities. This is supported by a comprehensive poster exhibition, where also demonstrations and prototypes will be presented.

The edaWorkshop and CATRENE DTC – Catalyst of EDA Research

The design of integrated circuits and systems places enormous demands on R&D engineers and design methods and tools that they use. It requires the efficient and manufacturing-aware development of safe, economical, robust and reliable systems of high complexity with very small structures and the design of analog and mixedsignal circuits.

In addition, most integrated circuits today contain not only a ‘system on chip’ (SoC), they also comprise large systems which are essential parts of applications. A new (product) design concept along the entire value chain with close interaction between electronics, design and applications (EDA) is necessary to speed-up innovation. This requires the integration of application domain knowledge into the design process, including design methodologies and tools. It comprises management of requirements, design along all levels of abstraction and the consideration of extrafunctional properties.

Within the scope of its funding programme for information and communication technologies (ICT 2020) the BMBF (Federal Ministry of Education and Research, Germany) supports research activities in the area of “Electronics, Design and Applications”. Currently funded projects predominantly aim at developing application-specific design platforms for complex systems and circuits. The EDAindustry forms an important link between semiconductor manufacturers and OEMs, and EDA-related research projects within ICT2020 foster collaboration along the value chain. ICT2020 focuses on fields of application that play a decisive role for the future strength of the German economy, such as automotive/mobility, automation and medical technology. Some projects within ICT 2020 are part of European collaborations, for example within the programme EUREKA-CATRENE.

The edaWorkshop and CATRENE DTC – Catalyst of EDA Research This event is a central platform for exchanging information concerning the approaches and results of projects from ICT 2020 and CATRENE (www.catrene.org [1]) as well. Experts involved in the projects will be invited to present their results by means of talks and posters. At the heart of these presentations on electronics, design and applications will be the relevance of the applications to topics affecting society (as defined by ICT 2020 and CATRENE White Book B). As a second essential part of the event, project presentations will be supplemented by a selection of peer-reviewed scientific papers on R&D results.

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Links:
[1] http::/www.catrene.org