

automotive innovation center aachen - aic

In Aachen, a new interdisciplinary co-operation has been formed between institutes of RWTH Aachen University and Aachen University of Applied Sciences as well as private research institutes – the automotive innovation center aic. Six professors with together around 500 members of staff, working in six teaching and research institutes make available their experience and know-how.

The aic was initiated when it was realized that the region of Aachen has an excellent national and international reputation on various areas of Automotive engineering, like power-train and chassis engineering, but the recognition in automotive electronics doesn't meet the available competencies. Therefore a major objective is to strengthen the existing electronic competencies, tie them together and increase the available synergies.

The objective is to deliver joint solutions in interdisciplinary problem areas for the automotive industry, in particular in the field of automotive electronics. The background is the growing use of electronic systems in vehicles, which demands the continuous development of new processes and solutions.

The aic provides access to the combined R&D competencies of all its partner institutes, thus delivering significant added value. In its role as “one face to the customer”, the automotive innovation center coordinates the interaction between the partners in order to ensure an optimum fulfilment of all projects.

The service portfolio stretches from individual research and development services through to complete systems solutions and system integration for the automotive industry.

Due to the rapid increase of electronics in all vehicles the support of the local SMEs is a major objective, too. Especially companies providing mechanical products often don't have internal electronic competencies and shall be supported by aic in order to stay competitive.

The aic is a business unit of the Aachen regional development agency AGIT.

The following institutes are involved:

- Institute for Automatic Control (IRT), Prof. Dr.-Ing. D. Abel
- Institute for Automotive Engineering (ika/fka), Prof. Dr.-Ing. H. Wallentowitz
- Institute for Internal Combustion Engines (vka/FEV), Prof. Dr.-Ing. S. Pischinger
- Institute for Informatics XI –Embedded Software Group, Prof. Dr.-Ing. S. Kowalewski
- Institute for Power Electronics and Electrical Drives (iSEA), Prof. Dr. ir. R. De Doncker
- Chair for Automotive/Aerospace Electronics (FEE), Prof. Dr.-Ing. G. Schmitz

In order to enlarge the competencies also in the field of telematics and infotainment, further institutes have been contacted already.

More details about available technologies and techniques are available on the website of aic (www.aic-aachen.de). At “partners”, direct links to all institutes can be found there, too.

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