

# Dr. Werner Emde

## Position Statement

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I am working in the project KIKon concerned with the configuration of telecommunication systems. The project started in 1994 by the German Telekom AG in order to evaluate approaches to knowledge based configuration and to develop a prototypical system able to support consultants of the German Telekom configuring telecommunication systems of customers. Currently nine researches of GMD are involved in this project. In addition, German Telekom gave an order to another company, Media Transfer, to collect, and to analyze existing configurations and to construct a case base for case-based reasoning in KIKon.

In the KIKon project I am working as internal project leader of GMD.FIT. I am involved in the design of the overall system and the design and implementation of the resource-oriented configurator, the knowledge representation system, and the knowledge base maintenance system.

I am member of the KIKon project since January 1995. Previously, I was involved in projects on knowledge acquisition and machine learning, inductive logic programming, data mining, knowledge representation, and natural language understanding. (For a list of conference and book publications please consult my WWW home page). Due to the fact that KIKon is an order of German Telekom, only a small number of documents on KIKon are publicly available. Currently, I am co-author of internal project reports on KIKon and not able to refer to book or conference publications in the area of configuration (see our submitted paper on "Configuration of Telecommunication Systems in the Project KIKON"). I am interested in attending the workshop for the following reasons:

- I would like to learn and discuss how other groups are dealing with the requirements that we have identified in the telecommunication domain,
- I would like to discuss the advantages and disadvantages of resource-oriented approaches to configuration,
- I would like to present and discuss our approaches (if possible with a demonstration of our system),
- as my original research areas are machine learning and knowledge acquisition I am also interested in discussing if and how these fields could collaborate.