To strengthen our dedicated team in the research department Cognitive Assistants in Saarbrücken we are looking for a

Senior Researcher (m/f/d)
(Postdoctoral position for initially 2 years)

Your future tasks will include the establishment of a research subgroup in the area of constraint solving under the supervision of DFKI's CEO Prof. Dr. Jana Koehler.

Your tasks:

» Further development of current approaches of constraint solving or SAT solving (e.g. CP-SAT solver) with regard to practical application for industrial problems.
» Development of modeling methods and tools for optimization problems in the areas of planning and scheduling that support an agile development style.
» Close cooperation with the group for real-time scheduling based on specific compiler techniques.
» Participation in research, development, consulting and teaching activities.

Your qualifications:

» Doctorate in computer science or mathematics with significant computer science parts.
» Profound knowledge of optimization algorithms with a focus on AI-based methods such as constraint and SAT/MAXSAT solvers.
» Experience with the implementation of AI-based solvers and knowledge in the field of compiler construction are advantageous.
» Enjoyment of working in a dynamically growing team and working on difficult optimization problems from a wide range of application areas (industry 4.0, medicine, environment).

Your benefits:

» Challenges that demand your creativity.
» Excellent industrial contacts.
» An innovative, agile and professional working environment at one of the most outstanding IT locations in Germany.

We look forward to receiving your informative application documents and your earliest possible starting date up to 01.10.2019.

Please send your application exclusively in electronic form to Prof. Dr. habil. Jana Koehler (jana.koehler@dfki.de).

The German Research Center for Artificial Intelligence (DFKI) is Germany's leading business-oriented research institution in the field of innovative software technologies based on artificial intelligence methods. In the international scientific community, DFKI ranks among the most recognized “Centers of Excellence” and currently is the biggest research center worldwide in the area of Artificial Intelligence and its application in terms of number of employees and the volume of external funds. The DFKI cooperates closely with national and international companies.

Severely disabled applicants and peers are given special consideration if they are equally suitable. The DFKI intends to increase the share of women in the field of science and therefore urges women to apply.