

CP-Inside – Embedding Constraint-based Decision Tools in Successful Commercial Software



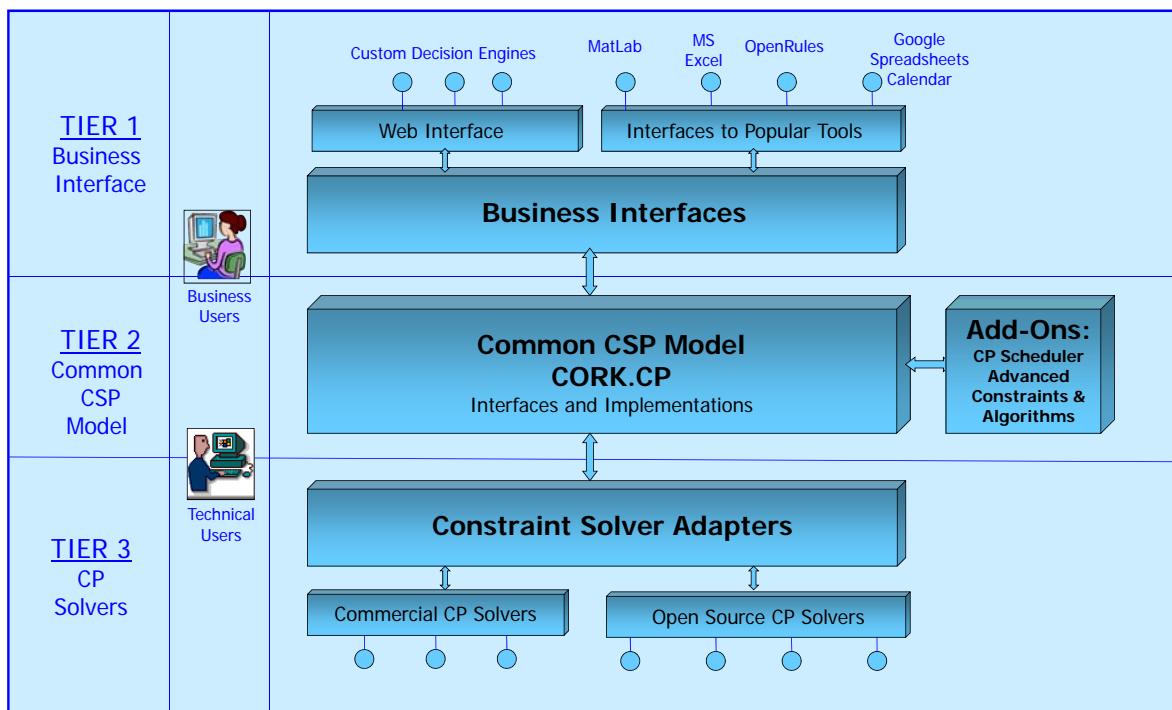
Prof. Eugene Freuder, Dr. James Little, Dr. Jacob Feldman
Cork Constraint Computation Centre (4C), Dept. of Computer Science, UCC,
Cork, Ireland



The main objective of this project is to make Constraint Programming technology available to the existing user communities through the interfaces to successful commercial and open source software tools. Hiding constraint satisfaction problems representation and resolution code inside already familiar tools, will provide an ability to introduce CP-based decision engines as natural components of the traditional business applications

We position CP-Inside as an integration framework for embedding different CP Solvers into real-world business applications. Providing a common interface for different constraint satisfaction problems, CP-Inside will also serve as a commonplace for representation, testing and comparison of new CP research and developments ideas.

CP-INSIDE ARCHITECTURE



CORK™ - Constraint Resolution Kit

- ❑ Interactive constraint propagation and problem resolution
- ❑ Solving complex on-line optimization problem using different underlying CP solvers
- ❑ Integration with popular 3rd party tools
- ❑ Customizable Web Interfaces
- ❑ Quick creation of CP-based decision engines deployed as web services
- ❑ Can be universally invoked from any Java or MS application including Excel and other MS Office Tools