

22nd IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE (D4)  
Interactive Presentations - 22nd IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE  
FUTURE (IP)

Author: Ms. Cahan İsmaylova  
Baku State University, Azerbaijan

Mrs. Arzu Pashayeva  
Baku State University, Azerbaijan

FUTURE GENERATION

**Abstract**

Integrating multiple heterogeneous data sources into applications is a time-consuming, costly and error-prone engineering task. Relatively mature technologies exist that make integration tractable from an engineering perspective. These technologies, however, have many limitations, and hence present opportunities for breakthrough research. This paper briefly describes some of these limitations, and enumerates a subset of the general open research problems. It then describes the Data Concierge research project and prototype that is attempting to provide solutions to some of these problems. Among many significantly important factors, two main trends emerge as especially important: developer guidance and documentation, and integration functionality. The former leads to success by focusing on developer productivity through the use scorecards, principles and guidance, well-specified interfaces, and skilled EAI employees; and the latter by extending integration functionality to include many-to-many integration strategies and workflows to model the business. Keywords: next generation, application integration tools, Application Development, Case study, Critical Success Factors.