

Inter-organizational Systems (IOS): The challenges we face

In order to achieve their business goals, organizations collaborate with business partners. Such collaborations require their information system to interact with each other leading to inter-organizational systems. The system enact inter-organizational business processes which are supported by the exchange of electronic documents. In this talk we look at some recent research activities in the area of inter-organizational systems at the Vienna University of Technology:

(1) We have developed the ERPEL approach towards executing on-the-fly e-business transactions between semantically enabled ERP systems. By on-the-fly e-business transactions we understand transactions that are conducted between companies that are not yet in a partnership and dynamically find each other to engage in e-business transactions.

(2) In inter-organizational systems the business documents vary from one business context to the other, i.e. in which geopolitical region, in which industry, etc., the business process is executed. We have developed a mechanism to contextualize business documents and use the contextual information to predict a to-be-developed electronic business document implementation guideline.

(3) We have adapted process mining techniques to the field of inter-organizational business processes. The approaches we have developed not only help to analyze and simulate the message exchanges throughout a supply chain, but also provide means for a performance evaluation in a partner network.

(4) In general, commercial offers are represented as first-class objects on the Web. Consumer needs, however, the very notions that drive the interaction, only materialize in the form of search terms or browsing behavior. We work on an approach for explicitly representing needs as first-class objects on the Web in a way that allows interacting with them.

Christian Huemer

Vienna University of Technology,
Faculty of Informatics
Institute of Software Technology and Interactive Systems
Business Informatics Group

日 程

2014年11月20日(木)
13:00~15:00

会 場

名古屋工業大学
19号館2階202号室
〒466-8555 名古屋市昭和区御器所町

Christian Huemer is professor at the Vienna University of Technology (TU Vienna). He currently serves as Vice Dean of Academic Affairs of Business Informatics at the Faculty of Informatics. He is a member of the Business Informatics Group of the Institute of Software Technology at this faculty.

In addition, he is the scientific chair of the two research studios Inter-organizational Systems (IOS) and Smart Agent Technologies (SAT) of the Research Studios Austria Research Agency funded by the Austrian Ministry of Science. He has a long experience in leading roles in the standardization efforts of the United Nations Centre for Trade Facilitation and e-Business (UN/CEFACT): Chair of the Techniques and Methodologies Group, Austrian Head of Delegation, Technical Advisor to the UN/CEFACT Bureau. Christian Huemer is a board member of AustriaPro – the Business-to-Business standardization platform of the Austrian Chamber of Commerce. He is AustriaPro's Chief Standardization Officer (CSO) and, given this role, he is in charge of ebInterface – the Austrian solution towards e-invoicing. Christian Huemer is chairing the section 5.5 e-Commerce of the German Society for Computer Science (GI). He is a member of the Steering Committee of the IEEE International Conference on Business Informatics (CBI). Furthermore, he is a partner in the TU Vienna Spin-off ecosio realizing innovative solutions for exchanging business information.

