



Second Workshop on
**Industrial Automation Tool Integration for Engineering Project Automation
(iATPA 2012)**

21.09.2012, Krakow, Poland
<http://cdl.ifs.tuwien.ac.at/iatpa2012>

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Modern real-world and large-scale industrial systems engineering projects involve the cooperation of a wide range of engineering systems and tools that use different technical platforms and heterogeneous data models. The engineering of e.g., power plants or car manufacturing plants requires coordinated information exchange between different engineering disciplines (e.g., process, mechanical, electrical, and software engineering), which is complex and hard to achieve using traditional systems engineering techniques. Well-established software engineering methods and approaches (e.g., iterative development processes, issue tracking systems) could provide additional value to systems engineering projects, but require careful integration and seamless collaboration with other engineering fields to achieve industrial acceptance.

Today's system integration technologies are suitable to bridge most of the technical and semantic gaps between these automation systems engineering tools. However, error-prone and time-consuming human work (e.g., manually copying information from one to another tool) is needed to handle integration concerns at the interfaces of different engineering disciplines as each of them has their specific engineering tools and engineering systems. Therefore the definition, enactment, and monitoring of automated engineering processes crossing several interfaces is hard to define and establish. The goal of the workshop is the investigation of methods and techniques for the automation support of automation systems engineering processes to improve the effectiveness and efficiency of engineering projects.

Topics of interest in this workshop include, but are not restricted to:

Engineering Tool Integration

Architectural Design, Tool Data Integration, Process Orchestration, Model-Driven Integration, Automated and Integrated Data Exchange Mechanism

Quality Assurance

Product and Process Metrics, Defect Detection, Process Monitoring and Tracing, New Technologies in Monitoring and Control Systems, Simulation and Virtual Startup (Digital Factory)

Automated Testing

Test Case Generation, Verification and Validation, Tool Support for Testing, Formal Mechanism Applied in Testing, Applications for Automated Testing during Engineering

AutomationML

Information Exchange between Different Activities of the Engineering Chain, Interaction of Different Stakeholders within the Engineering Chain, Consistency within the Engineering Chain, Model-Based Data Transformation/Exchange, Usage of Meta-Data for Practical Application within the Engineering Chain

Industrial-oriented Topics

Empirical Evaluations, Use cases, Experience Reports and Lessons Learned, Tool Demonstrations

Important Dates

Submission of papers: July 6, 2012

Notification of acceptance: August 17, 2012

Submission of camera-ready papers: September 7, 2012

Workshop: September 21, 2012

Submission

Submit a full paper of 6 - 8 pages (IEEE formatting guidelines - <http://www.computer.org/portal/site/cscps/>), including figures and references. The contact author must provide the following information to the workshop chairs: paper title, authors' names, affiliations, postal address, phone, fax, and e-mail address of the author(s), about 200-250 word abstract, and about five keywords. Prepare your paper as a PDF file and submit it to the workshop organizers using the iATPA 2012 conference paper management system (<http://www.easychair.org/conferences/?conf=iatpa2012>). Submission of a paper implies that should the paper be accepted, at least one of the authors will register and present the paper in the conference. Submissions will be reviewed by at least 3 PC members following a single-blind review process. Accepted papers will be given guidelines in preparing and submitting the final manuscript(s) together with the notification of acceptance. The final manuscript will be published in the official ETFA proceedings.



Conference website

<http://www.etfa2012.org>

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