

4DIAC Users Meeting

Abstract

The open source initiative 4DIAC - Framework for Distributed Industrial Automation and Control (www.fordiac.org) is going into its fourth year. In the last three years, new versions, improving features and performances, have been provided. Even more important, 4DIAC, while being used to implement distributed control systems, based on IEC 61499, in many industrial as well as research applications, has provided a stable basis for further research into next generation distributed automation and control systems based also on other open standards.

With this workshop we would like to bring the users of 4DIAC together. The meeting should provide them an opportunity to present their projects, exchange ideas, and discuss the near future planned 4DIAC enhancements, which will let the initiative to become a larger framework for many application domains, based on several standards.

Organizers

- ✓ *Alois Zoitl*, Vienna University of Technology;
- ✓ *Martijn Rooker*, Profactor GmbH;
- ✓ *Antonio Valentini*, O3neida Europe.

Date

16th September.

Duration

Half day, morning.

Potential attendees

4DIAC users; potential 4DIAC users who would like to be informed on current and near future developments; people interested in IEC 61499; people interested in the management of open source projects.

Agenda

Time	Title/Speakers(s)
09:00 – 09:05	Welcome <i>Antonio Valentini, O3neida Europe</i>
09:05 – 09:25	Introduction to 4DIAC <i>Ingo Hegny, Vienna University of Technology</i>
09:25 – 09:45	Implementation of Control Systems and Future Trends at the Martin-Luther-University using 4DIAC <i>Christian Gerber, Martin-Luther-University</i>



Time	Title/Speakers(s)
09:45 – 10:05	Using FORTE in Infomechatronics lab, The University of Auckland <i>William Dai, University of Auckland</i>
10:05 –10:25	Utilizing Lego Mindstorms nxt(tm) as teaching and training platform for IEC 61499 <i>Alois Zoitl, Vienna University of Technology</i>
10:30 – 11:00	Coffee Break
11:00 – 11:20	SIFB Development Approach to Provide Control and Real Time Communication <i>Federico Perez, University of the Basque Country</i>
11:20 – 11:40	4DIAC and wireless sensor networks for factory automation <i>Robert Brennan, University of Calgary</i>
11:40 – 12:00	4DIAC Initiative near future plans <i>Alois Zoitl, Vienna University of Technology</i>
12:00 – 12:30	Open Discussion <i>Moderator: Antonio Valentini, O3neida Europe</i>