



SYMTA VISION

High time for real-time

5. Symtavision NewsConference
on Timing Analysis
October 5th/6th, 2011



Timing analysis - a key success factor

The Symtvision NewsConference on Timing Analysis provides a unique opportunity for the exchange of ideas and experiences among engineers, managers, technology experts and researchers in the field of embedded real-time systems.

Our 5th NewsConference will take place on Oct. 5th and 6th 2011 in Braunschweig.

The first day, starting at lunch-time, will be dedicated to research and practice innovation in three parallel tracks: one Research Track and two Practice Tracks. On the second day, the “Industrial Day”, we will present speakers from our customers and partners, who will give us an insight view about their timing analysis approach and their experience using Symtvision products.

As every year, there will be a pre-conference event in the evening of Oct. 5th with a lot of opportunities for discussions and networking. Also we will again have a number of technology partners exhibiting their products, on both conference days this year.

Please join the conference to get a comprehensive view on all aspects related to timing, performance, reliability and certification, and solutions in practice and to discuss about the state-of-the-art and future developments in timing analysis with experts from industry and research.

Your Symtvision team



Conference Overview

October 5 - Innovations Day

	Research	Practice Beginners	Practice Advanced
13:00 – 15:00	R1 Embedded Platforms	P1 ECU Basics	P3 Process Integration
15:30 – 17:00	R2 System-Level Design	P2 Network Basics	P4 Multi-Core ECUs

October 5 - Casual Evening Event

from 17:30 Casual get-together and dinner in the "Old Barn" of the monastery of Riddagshausen.

October 6 - Industrial Day

9:00 – 16:00 Industrial presentations about the application and requirements for timing analysis by OEMs and suppliers, including AUDI, Robert Bosch, Daimler, Esterel Technologies, FIAT, and CATS Tools.

from 16:00 Coffee, snacks & drinks

Exhibitors:



11:30 – 13:00 Registration and Lunch / Come and see the Exhibition

13:00 – 15:00 Session R1: Safe Embedded Platforms and Networks

13.00 – 13:30 **Timing Requirements, System Timing Analysis and Modelling for Rail Applications**

Uwe Steinke, SIEMENS AG, Rail Automation

13.30 – 14:00 **Scalable Data Processing Systems for Real-time Applications**

Stefan Aust, TU Clausthal

14:00 – 14:30 **Timing Analysis of Ethernet AVB for Real-Time Systems**

Jonas Diemer, TU Braunschweig

14:30 – 15:00 **Combining Security with Reliability using Multi-core**

Philip Axer, TU Braunschweig

15:00 – 15:30 Coffee break / Come and see the Exhibition

15:30 – 17:00 Session R2: System-Level Design and AUTOSAR

15:30 – 16:00 **Objectives of the ITEA TIMMO-2-USE Project**

Stefan Kuntz, Continental Automotive GmbH

16:00 – 16:30 **A Timing Verification Methodology for AUTOSAR Series Development**

Nico Feiertag, Syntavision GmbH

16:30 – 17:00 **Software function allocation in AUTOSAR: Steering-by-Wire Case Study**

Dr. Khaled Chaaban, ESTACA, Parc Universitaire Laval Changé

from 17:30 ~ Casual Get-Together

11:30 – 13:00 Registration and Lunch / Come and see the Exhibition

13:00 – 15:00 SymTA/S Practice Sessions P1 and P3

Beginners Track

Session P1: ECU Analysis Basics

RTOS Configuration
Modeling, Imports
Worst Case, Distribution, Traces
Results Interpretation
Optimization & Compare
End-to-End (Task Chaining)

Advanced Track

Session P3: Process Integration

Using the SymTA/S Workbench
Scripting, Automation
Importing Data Sets
Experiments Framework

15:00 – 15:30 Coffee break / Come and see the Exhibition

15:30 – 17:00 SymTA/S Practice Sessions P2 and P4

Beginners Track

Session P2: Network Analysis Basics

Communication protocol configuration
Modeling, Imports
Worst Case, Distribution, Traces
Results Interpretation
Optimization & Compare
End-to-End (Black-box Gateway)

Advanced Track

Session P4: Multi-Core ECUs

Migration from Single-core to Multi-core
Load Balancing
Schedule Synthesis
Optimizing Communication Overhead

from 17:30 ~ Casual Get-Together



- 08:15 – 09:00 Registration
- 09:00 – 09:15 **Welcome**
Dr. Marek Jersak, CEO of Symtavision GmbH
- 09:15 – 09:45 **Keynote: Streamlining System and Software Design with Timing Analysis**
Eric Bantégnie, Esterel Technologies GmbH
- 09:45 – 10:15 **Diagnostic Communication – A Challenge for Network Analysis**
Ralf Schmidgall, DAIMLER AG
- 10:15 – 10:45 Coffee break / Come and see the Exhibition
- 10:45 – 11:15 **Functional Safety in the Development Process – Timing constraints from IEC 61508 and ISO FDIS 26262**
Dr. Günter Glöe, CATS Software Tools GmbH
- 11:15 – 11:45 **Timing Analysis and Verification of Engine Control Units**
Michael Sätzler, Robert Bosch GmbH
- 11:45 – 12.15 **Timing & Distribution Analysis with SymTA/S at FIAT Group Automobiles**
Ignazio Amato, FIAT Group Automobiles
- 12:15 – 14:15 Lunch break / Come and see the Exhibition
- 14:15 – 14:45 **Symtavision Product Strategy and Roadmap**
Dr. Kai Richter, CTO of Symtavision GmbH
- 14:45 – 15:15 **Timing-Evaluation for AUDI Chassis Control Units**
Andreas Baudisch, AUDI AG
- 15:15 – 15:45 **Efficiently Mastering Conflicting Requirements to Safety and Timing - The Mixed Criticality Challenge**
Prof. Rolf Ernst, Institute of Computer and Network Engineering, TU Braunschweig
- 15:45 – 16:00 **Closing address**
Dr. Marek Jersak, CEO of Symtavision GmbH
- from 16:00 ~ Coffee, snacks and drinks

Registration Form

I / We will attend the 5th Symtvision NewsConference

- Innovations Day on **Oct. 5** 100,00€ (excl. VAT)
Session 1: R1 or P1 Beginners or P3 Advanced
Session 2: R2 or P2 Beginners or P4 Advanced
- Industrial Day on **Oct. 6** 155,00€ (excl. VAT)
- Full Conference (**Oct. 5 + 6**) 205,00€ (excl. VAT)

The attendance fee includes conference proceedings, meals, beverages etc.

- I / We will attend lunch on Oct. 5, 2011
- I / We will attend the pre-conference dinner on Oct. 5, 2011
- I / We will attend lunch on Oct. 6, 2011
- I / We have special diet requirements (please specify)
- I / We agree with Symtvision publishing photos showing me / us at the NewsConference on their website.
- I / We agree with Symtvision publishing my name, department name, and company name on the list of participants

1. Person (Name, Title)

2. Person (Name, Title)

3. Person (Name, Title)

Department

Position(s)

Telephone

Company

Address

Address

E-Mail

VAT-No

Contact of invoice

Purchase Order Number

Date, Signature

Please return your registration by fax to +49 (531) 886179 – 29 or send the registration per email to our conference manager Alexandra Schlagowski, **before September 5**, 2011. Thank you!

You will receive a confirmation of your registration via email.

You may cancel your registration free of charge until September 19th. In case of cancellation after the 19th of Sept. or no-show, the complete fee falls due. You may name a substitute attendee free of charge.



Venue

MMI Marketing Management Institut GmbH
Klostergang 53, 38104 Braunschweig
www.mmi-akademie.de

The MMI in the beautiful settings of the old monastery of Riddagshausen is a perfect place for productive communication.

For our Speakers and Exhibitors we have reserved a limited number of hotel rooms at the MMI.

Hotel information

Our recommendation is:

Landhaus Seela,
Messeweg 41, 38104 Braunschweig
www.hotel-landhaus-seela.de, <mailto:info@hotel-landhaus-seela.de>
Tel.: (+49) 531 / 37001 - 0

All rooms in "Landhaus Seela" have been reserved for our NewsConference. Please book your hotel room referring to "Symtavigation".

13 minutes (1,1km) walking distance to MMI.

Access

By train: A taxi from Braunschweig main station takes approx. 10 minutes.

By plane: The closest airport is Hannover (HAJ). Taxi takes about 1 hour. Taxi is expensive, approx. 120€. Please contact us for transfer organization. Or take a train to Hannover main station, and there change to Braunschweig main station.

By car: From north or west, exit Autobahn A2 at BS-Flughafen, drive south on L293 and L625 to Riddagshausen. From south or east, exit A39 in Sickte, drive north on L625. In Riddagshausen, follow the signs to MMI or to "Kloster".

Contact

For all inquiries including registration, room reservations, access directions and additional questions, please contact our conference manager:

Alexandra Schlagowski
schlagowski@symtavigation.com
Tel. (+49) 531 / 88 61 79 – 20
Fax. (+49) 531 / 88 61 79 – 29