Innovations in Model-Based Development

Japan
User Conference
2010

The Tokyo Conference Center was the venue for this year's dSPACE User Conference in Japan. Over 300 attendees took up the invitation, breaking all previous records. The main topics were the increasingly difficult tasks involved in reducing emissions and the high development standards for quality assurance, traceability and safety. Impressive user presentations showed new technical approaches and efficient methods, and also reflected the growing need for development progress. One particular highlight was the special project presented by Masa Hirvonen (Honda Aircraft Company) in his keynote speech: the Advanced Systems Integration Test Facility (ASITF). One of the most modern facilities for system integration in commercial aviation, ASITF was founded to support system integration for the highly advanced HondaJet plane and functional tests on its subsystems. dSPACE provided a complete testing framework for integrating networked electronics, with support for a wide range of aircraft configurations.

Masa Hirvonen, Honda Aircraft Company, presented the Advanced Systems Integration Test Facility in his keynote speech (on the left).

1. The lecture by Yoshiharu Sudani, Honda R&D, described an innovative testing environment for complex automotive systems utilizing dSPACE's Virtual Vehicle.

2. Ryo Kitabatake, Isuzu Advanced Engineering Center, Ltd., explained performance improvements on a six-cylinder, heavy-duty diesel engine equipped with a camless system.

3. Mitsubishi Motors designed a HIL simulation testing/model verification method. Masahiro Kaneda, Mitsubishi Motors Corporation, summarized the process up to vehicle production.

4. Hiroya Murao, Sanyo Electric Co. Ltd, explained a system adopted from dSPACE for the development of battery control software: Battery-in-the-Loop Simulation.

5. The paper given by Taku Senoo, Tokyo University, described an ultra-high-speed manipulation system for new robot skills.

6. Yoshimichi Nakamura, SmartEnergy Laboratory, talked about the characteristics of power supply systems.

Our Thanks

dSPACE Japan K.K. would like to thank everyone who participated in this year's Japanese User Conference. Special thanks go to the speakers, who presented groundbreaking innovations and important findings from practical development work. The conference made a valuable contribution to advancing the development of modern controller software. ∎