DATE 2016 Event Highlights Automotive and Secure Systems

DATE 2016 opens doors on March 14 at the International Congress Center Dresden, Germany

On Tuesday, the conference will be opened by the plenary keynote speakers Luc Van den hove, President and Chief Executive Officer imec, who will present a talk on “From the happy few to the happy many: towards an intuitive internet of things”, and Antun Domic, Executive Vice President and General Manager, Design Group, Synopsys, to talk about “Design will make everything different”. On the same day, the Executive Track offers a series of business panels discussing hot topics. Executive speakers from companies leading the design and automation industry will address some of the complexity issues in electronics design and discuss about the advanced technology challenges and opportunities.

Two special days in the programme mark the distinctive highlights during the DATE week: Automotive Systems and Secure Systems. Each of the Special Days will have a full programme of keynotes, panels, tutorials and technical presentations by leading experts from academia and industry.

During the Special Day on Wednesday, Automotive Systems, a keynote is given by Patrick Leteinturier, Fellow Automotive Systems, Infineon Technologies to talk about “The Car of the future will reinvent personal mobility”. In addition, the Automotive Special Day will feature a number of technical talks covering areas such as advanced driver assistance systems, formal methods for automotive software, and various aspects of in-vehicle as well as long-range automotive communications. Further, a panel with speakers from Infineon, Bosch, Mentor, Yogitech and ETAS will discuss various EDA solutions for the automotive domain and ways to go forward.

On Thursday, a keynote in the frame of the Special Day on Secure Systems will be given by Walden C. Rhines, Chief Executive Officer and Chairman of the Board of Directors, Mentor Graphics on “Secure silicon: enabler for the internet of things”. The Secure Systems day starts with an embedded tutorial focusing on low level software attacks, followed by technical papers addressing HW/SW embedded platform modifications for security, and technical papers discussing novel metrics and methods to support design for security and trust. The industrial relevance is illustrated with a special session addressing security challenges from Smart Grid, Industry4.0 and automotive.

The full conference programme including 10 in-depth tutorials on March 14, the regular conference from March 15 to 17, and 8 full-day parallel Friday Workshops on March 18, 2016, is available online: https://www.date-conference.com/conference/event-overview

Keynotes at DATE 2016

TUESDAY OPENING CEREMONY (Session 1.1)

1. Keynote: From the happy few to the happy many - Towards an intuitive internet of things.
   Luc Van den hove, President and CEO, imec, BE
   Abstract: The last year every high-tech company was talking about the Internet of Things. The coming decade, we will indeed see a rise in smart connected systems. Machines, buildings, vehicles, personal appliances will all be equipped with more intelligence that will be interconnected. Smart systems will be unobtrusive, ultra-small, cheap, intelligent, and ultra–low power. [...] 

2. Keynote: Design Will Make Everything Different
   Antun Domic, Executive Vice President and General Manager, Design Group, Synopsys, US
   Abstract: How many different silicon manufacturing process technologies will there be at 10, 7, or 5 nanometers? Probably only three. How many design starts will there be at 10, 7, or 5 nanometers? According to IBS [1], in 2025 there will be less than 250 design starts at 10 nanometers and below, about 3% of the total number of design starts that year, and only about five of those design starts, i.e. 2% of the 3% (0.05% of the total) will take place in Europe. [...] 

WEDNESDAY Lunchtime (Session 7.0 – 1400 - 1430)

3. Keynote: Title: The Car of the Future will reinvent personal mobility
   Patrick Leteinturier, Fellow Automotive Systems, Infineon Technologies, DE
   Abstract: The regulations for CO2 and pollutant reduction have pushed the automotive industry for more electrification. The internal combustion engines will continue to power our vehicles for decades but will be assisted by electric traction in various xEV architectures. The race for efficiency, environment friendly, and safety will not end here. [...] 

THURSDAY Lunchtime (Session 11.0 1330-1400)
4. Keynote: Secure Silicon: Enabler for the Internet of Things
Walden (Wally) C. Rhines, Chief Executive Officer and Chairman of the Board of Directors, Mentor Graphics Corporation, US

Abstract: As electronic system hackers penetrate deeper—from applications to embedded software to OS to silicon—the impact of security threats is growing exponentially. Viruses and malware in the operating system, or application layer, are major concerns, but only affect a portion of users. [...]

DATE 2016 Highlighting Automotive and Secure Systems
2015-12-16

DATE 2016: Advance Programme available online at https://www.date-conference.com/conference/event-overview
DATE combines the world's favorite electronic systems design and test conference with an international exhibition for electronic design, automation and test, from system-level hardware and software implementation right down to integrated circuit design.
Out of a total of 829 paper submissions received, a large share (42%) is coming from authors in Europe, 29% of submissions are from Asia, 25% from North America, and 4% from the rest of the world. This clearly demonstrates DATE's international character, its global reach and impact.
For the 19th successive year DATE is preparing an exciting technical programme. With the help of 327 members of the Technical Program Committee who carried out more than 3000 reviews (about four per submission), finally 199 papers (24%) were selected for regular presentation and 81 additional ones (10%) for interactive presentation.
The DATE conference will be held at the International Congress Centre Dresden, Germany, from March 14 to 18, 2016.
As in the previous years, the conference will start on Monday, with 10 in-depth technical tutorials offered from experts of the industrial and academic worlds on innovative as well as foundational topics related to design solutions, power efficiency, the internet of things, secure systems and testing and diagnosis.

DATE 2016 Highlighting Automotive and Secure Systems
2015-11-03

DATE 2016
Out of a total of 829 paper submissions received, a large share (42%) is coming from authors in Europe, 29% of submissions are from Asia, 25% from North America, and 4% from the rest of the world. This clearly demonstrates DATE's international character, its global reach and impact.
The most successful topics in terms of submissions received were:
- D Track: Topic D6 – “Emerging Technologies and Systems”
- A Track: Topic A5 – “Secure Systems”
- T Track: Topic T1 – “Defects, Faults, Variability and Reliability Analysis and Modeling”
- E Track: Topic E1 – “Real-time, Networked, and Dependable Systems”
For the 19th successive year DATE has prepared an exciting technical program. With the help of 327 members of the Technical Program Committee who carried out 3062 reviews (about four per submission), finally 199 papers (24%) were selected for regular presentation and 81 additional ones (10%) for interactive presentation.
The conference program includes several hot-topic sessions and embedded tutorials, addressing low power challenges and analog and mixed signal verification, 3D IC integration, in-memory computing, and managing heterogeneous computing resources at runtime.
In addition, the exciting program of DATE 2016 will include a panel on past and future challenges in EDA as well as a panel on which EDA solutions can the automotive domain reuse.
On the first day of the DATE event, 10 in-depth technical tutorials will be given by leading experts in their respective fields, with topics on design solutions for power efficiency, Internet-of-Things, secure systems and testability. On Friday, 9 full-day workshops cover a large number of hot topics like advanced MPSoC architecture and resource-awareness, optical/photonic interconnects for computing systems, emerging memory solutions, and model implementation fidelity.

European Projects
2015-11-03
NEW for this year: DATE will have an extra section of the Proceedings dedicated to European Projects. EU Project Coordinators are invited to submit a paper (up to six pages) presenting preliminary ideas, work in progress or lessons learned; papers will be peer-reviewed and selected based on innovation and originality.
- answers for the review by the 20th November 2015.
- camera ready submitted by 27th November 2015.

Early Author Notification
2015-10-30
To check if your paper has been accepted for presentation at DATE 2016, please enter the paper ID or SoftConf confirmation ID here

Call for Nominations: EDAA Outstanding Dissertations Award 2015
2015-10-30
You may download the PDF version of the Call here.
EXTENDED Deadline for nominations is November 15, 2015 at midnight (24:00 CET).
Call for Nominations

EDAA Outstanding Dissertations Award 2015

In recognition of the importance of university research to the advancement of design, automation and test, and to encourage young researchers to work in the field, EDAA has established an award for outstanding Ph.D. dissertations in 4 categories:

- Topic 1 – New directions in embedded system design and embedded software
- Topic 2 – New directions in logic and system design
- Topic 3 – New directions in physical design, design for manufacturing and CAD for analog circuits and MEMS.
- Topic 4 – New directions in circuit and system test

In each category, one award can be given. Each award consists of a 1000 € prize and a certificate. The awards will be presented at the DATE 2015 conference, where the awardees need to be present.

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PhD Forum
2015-09-25

The PhD forum is part of the DATE Conference and hosted by the European Design Automation Association (EDAA), the ACM Special Interest Group on Design Automation (SIGDA), and the IEEE Council on Electronic Design Automation (CEDA). The forum is a great opportunity for PhD students to present their work to a broad audience in the system design and design automation community from both industry and academia. The forum may also help students to establish contacts for entering the job market. In addition, representatives from industry and academia get a glance of state-of-the-art in system design and design automation. Contributions can be submitted via the DATE website by Sunday, 01 November 2015.

Read more

Exhibition Theatre
2015-09-25

An open discussion forum in the midst of Europe’s largest electronic system design exhibition: The programme combines expert panel sessions, customers’ testimonials and tutorials given by industry leaders. The aim is to offer exhibition visitors up-to-date information and fresh views on the key industrial and business issues in the electronic systems design market. Submissions are invited from industry consortia, technology groups, standards bodies and any company or organization setting future industry trends by Sunday, 18 October 2015.

Read more

University Booth at DATE 2016: Call for Demonstrations
2015-09-25

This is the Call for Demonstrations for the University Booth at DATE 2016 in Dresden, Germany! The University Booth fosters the transfer of academic work to industry. Prototypes are valuable demonstrators to express and compare the competitiveness of new EDA methodologies and hardware solutions. DATE 2016 features the University Booth in the exhibition hall of the conference venue. Universities and public research institutes are invited to submit their hardware platforms, prototype tools and pre-commercial results for DATE 2016 in Dresden, Germany.

Read more

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