Call for Papers

The PhD Forum is a poster session hosted by EDAA, ACM SIGDA, and IEEE CEDA for PhD students who have completed their PhD thesis within the last 12 months or who are currently pursuing their PhD. PhD students are invited to submit their extended summaries for publication in the proceedings as final, camera-ready manuscripts. The PhD Forum provides an opportunity for PhD students to present their research and to network with other researchers in the field.

For more information, please contact:
Michael Glaß, michael-glass@date-conference.com

European Projects

European Projects will have an entire section of the proceedings dedicated to European Projects, including but not limited to EU H2020 Projects and projects funded by the European Space Agency. Project Coordinators are invited to submit papers (up to six pages) presenting preliminary ideas, work in progress, or lessons learned from the project. The papers will be peer-reviewed and will be based on innovation and originality. In particular, we are interested in know-how and new ideas that could revolutionize the field.

For more information, please contact:
Frédéric Pétrot, european-projects@date-conference.com

Exhibition Theatre

The Exhibition Theatre, located in the exhibition area close to the booths, provides an excellent opportunity for all interested exhibitors. The Exhibition Theatre programme includes panel sessions and user presentations that give exhibition visitors a dynamic overview of key technical and business issues in electronic design automation and test.

For more information, please contact:
Jürgen Haase, haase@edacentrum.de

Friday Workshops

DATE invites proposals for Friday Workshops on emerging research and application topics in design and test of microelectronic systems. Topics that are not directly covered in the DATE Technical Programme within the next 2 years will be given top priority.

For more information, please contact:
Michael Glaß and Eli Bozorgzadeh, friday-workshops@date-conference.com

Submission Key Dates

- Monday Tutorials: 8 September 2019
- Exhibition Theatre: 8 September 2019
- PhD Forum: 8 September 2019
- European Projects: 13 October 2019
- Camera-ready paper due: 18 November 2019
- University Booth proposals: 12 January 2020

Conference Organization

K.T.I. Group GmbH Dresden
D-01099 Dresden, DE

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Monday Tutorials

The tutorials for DATE 2020 are designed to provide audiences with introductions to important topics in the DATE Technical Programme. Each tutorial is 1.5 hours long and will typically cover a broad area of expertise. Tutorials will be given in a dynamic and interactive format, providing an excellent opportunity for attendees to learn about new developments and to network with experts in the field.

For more information, please contact:
Mehrdad Tahoor, monday-tutorials@date-conference.com

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For more information, please contact:
Robert Wille, phd-forum@date-conference.com

Special Sessions

Special Sessions can take the form of (1) Panels, discussing visionary and controversial issues, (2) Hot-Topic Sessions, focusing on the introduction and demonstration of new technology, problems, and (3) Embedded Tutorial Sessions, addressing trends in the technical domains that are of interest to the conference participants. Additional considerations will be given to Special Session proposals matching the DATE 2020 technical programme, Special Days and Exhibition. Special Session proposals must consist of an extended summary of up to 1,500 words in a PDF file, describing the topic, the authors, speakers, plus the format and must be submitted via the DATE website by 15 September 2019.

For acceptance special sessions, it is the responsibility of the Special Session organizers to ensure that the 15 September 2019 deadline is met. All camera-ready...
Silicon Photonics has emerged as a promising solution in the area of high-performance computing. This emerging technology opens new multi-disciplinary research questions, low-cost CMOS compatible silicon optical components and design tools to explore the design space of the resulting complex devices and systems. DATE special session on silicon photonics will focus on data communication via photonics for both data center/high-performance computing and optical networking on chip applications. Industrial and academic presentations will highlight recent advances on devices and integrated circuits. The sessions will also feature talks on design automation and link-level simulations. Exemplary topics of silicon photonics such as sensing and optical computing will also be discussed.

DATE 2020 will have a timely Special Initiative "Automotive Systems Design - Auto-mobiles, the future of transport" which will be held Friday which will include featured speeches and invited papers as well as working sessions. There will be a separate call for papers.

The Exhibition

The main accompanying exhibition states a unique networking opportunity for vendors of design tools and software and embedded hardware for the design, development, and test of SoCs, systems, and IP Cores. Firms from around the world are participating in the full exhibition. It features the latest products, and presents the future from the point of view of the industry. This year the exhibition area is the main networking platform for the community. A full programme in the Exhibition Theatre will again combine presentations by exhibitors, keynotes, invited campaigns, and selected conference special sessions.

A full programme of tutorials highlighting and informing about emerging topics. The conference scope also includes the elaboration of design requirements between the edge devices, the internet and the servers, drastically increasing the information on relevant issues for the design and test community. Special space will also be allocated for EU-funded projects to show their results.

The Conference

The Conference adds and provides a wide range of issues related to industrial sectors such as automotive, medical, telecommunication, consumer electronics, and multimedia. The Conference scope also includes the discussion of design requirements and new architectures for challenging application fields such as teleco, wireless communications, multimedia, healthcare and automotive systems. Persons involved in innovation industrial designs are particularly encouraged to submit papers to foster the feedback from design to market. All hot topic sessions and embedded tutorials highlight emergent and interesting topics.

Special Days in the programme will focus on two areas bringing new challenges to the systems architecture. 

Embedded Artificial Intelligence: Nowadays there are many cognitive applications in edge devices. The power hungry sensors spread all over the world, plus an important communication overhead between the edge devices, the cloud, and network increases the power consumption of worldwide internet. If internet power consumption keeps increasing with the present technology, the cumulative energy consumption of worldwide internet电力 consumption will be just to keep internet and their smartphones running. By moving cognitive computation and control to the edge devices, on which embedded edge devices, not only worldwide internet power consumption growth trend will be reduced, but also users increase their right to keep their personal data privacy. In the Special Day on Embedded AI, sessions will consider to discuss new trends in cognitive algorithms, hardware accelerators, software, designs, emerging device technologies as well as the application space for deploying AI into edge devices. The topics will include technical aspects on the evolution of embedded Artificial Intelligence on specialized chips as such bio-inspired chips, and with and without self-learning capabilities, low power platforms for edge chips, embedded devices, emerging 5G technologies, low power, low latency computing and efficient algorithms. These topics are particularly relevant for prospective applications in health, social media, automotive, robotics, or smart city applications.

Call for Papers

The 23rd DATE conference and exhibition in the main European event bringing together designers and design automation users, researchers, and vendors, as well as especially contributors in the hardware and software tools for developing and testing ICs. DATE puts a strong emphasis on both technology and services, covering ICs in Si, SiGe, SiC, GaN, GaAs and compound semiconductor systems, and embedded software.

The Five-day event consists of a conference plenary invited papers, regular papers, panels, hot topic sessions, tutorials and workshops, two special focus days and a track for all submissions. The scientific content of the conference is implemented by a commercial exhibition showing the state-of-the-art in design and tools, methodologies, IP and design services, reconfigurable and other hardware platforms, embedded software and systems. DATE 2020 will have a timely Special Initiative “Automotive Systems Design - Auto-mobiles, the future of transport” which will be held Friday which will include featured speeches and invited papers as well as working sessions. There will be a separate call for papers.

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