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## ADTC and edaWorkshop22 - Program

At this web page you find the programme of the ADTC and edaWorkshop22. You may expand the programme for each session by clicking on the session title. You will find the detailed timetable, presentation titles and author names. If additional information like an abstract, curriculum vitae or (for attendees of the ADTC and edaWorkshop22 only) slides is available, a link below the presentation title is displayed.

You may [download](#) the programme as PDF file (77.06 K).

### Wednesday, June 29, 2022

**09:00 - 09:45**

#### Keynote Session

Moderator: Ulf Schlichtmann (edacentrum, D)

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09:00 **Welcome**  
Ulf Schlichtmann (edacentrum, D)

**Opening Keynote: AI Automation to Democratize AI for a better Society – an Inspiration from Electronic Design Automation**

09:05 Jinjun Xiong (University at Buffalo, US)

[Abstract and Curriculum Vitae](#)  
[Slides \(Access for event attendees only\)](#)

**09:45 - 11:15**

#### Technical Session 1: Trustworthy Electronic

Moderator: Peter Schneider (Fraunhofer-IIS/EAS, D)

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09:45 **Designing Trust into Electronics: Requirements and Solution Approaches**  
Roland Jancke (Fraunhofer-IIS/EAS, D)  
Andreas Seelos-Zankl (Fraunhofer-AISEC, D)  
[Slides \(Access for event attendees only\)](#)

10:05 **Designing Secure Circuits Using Reconfigurable Transistors**  
Shubham Rai (TU Dresden, D)  
N. Kavand (TU Dresden, D)  
Akash Kumar (TU Dresden, D)  
[Slides \(Access for event attendees only\)](#)

10:25 **Realization of Heterogeneous Systems with Chiplet Approach**  
Steffen Paul (U Bremen, D)  
[Slides \(Access for event attendees only\)](#)

10:45 **An Open-Source Hardware Security Module - Evaluating the Limits of an Open-Source EDA Tool Chain?**  
Norbert Herfurth (IHP, D)  
Steffen Reith (HS RheinMain, D)  
[Slides \(Access for event attendees only\)](#)

11:05 **Questions and Answers**  
Peter Schneider (Fraunhofer-IIS/EAS, D)

11:15 - 11:45  
Coffee Break

**11:45 - 13:00**

## **Technical Session 2: Sustainable AI - AI for Sustainability**

Moderator: Frank Oppenheimer (OFFIS, D)

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11:45 **AI on Embedded Devices: Sustainable, Mobile, Small, Near-Machine - but is it Truly fit for the Real World?**  
Jörg Walter (OFFIS, D)  
[Slides \(Access for event attendees only\)](#)

12:15 **Sustainable AI - Leverage Points in a Semiconductor Company**  
Markus Schnell (Infineon, D)  
[Slides \(Access for event attendees only\)](#)

12:45 **Questions and Answers**  
Frank Oppenheimer (OFFIS, D)

13:00 - 14:00  
Lunch

**14:00 - 15:30**

## **Postersession**

**15:30 - 17:00**

## **Technical Session 3: Medical Devices**

Moderator: Armand Castillejo (STMicroelectronics, F)

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15:30 **Cybersecurity in Connected Medical Devices**  
Alizée Devaux (PANORAMIC DIGITAL HEALTH, F)  
Derek Hill (PANORAMIC DIGITAL HEALTH, F)  
[Slides \(Access for event attendees only\)](#)

15:50 **Security of Embedded Artificial Intelligence for Connected Health: a Complex Attack Surface**  
Kevin Hector (CEA, FR)  
Raphaël Joud (CEA, FR)  
Pierre-Alain Moellie (CEA, FR)

16:10 **FHIR Profiling and Binary Optimization for IoT and Smart Home Devices**  
Pilar Sala (MYSPHERA, ES)  
Giorgio Cangioli (HL7, UK)  
Eugenio Gaeta (UPM, ES)  
Armand Castillejo (STMicroelectronics, F)

16:30 **Developments of Wearable Devices CEA-Leti: from Cutting-edge Sensors to Clinically Validated Systems**  
Olivier Fuchs (CEA Leti, F)  
Caroline Desvergne (CEA Leti, F)  
[Slides \(Access for event attendees only\)](#)

16:50 **Questions and Answers**  
Armand Castillejo (STMicroelectronics, F)

**17:00 - 18:00**

## **Panel Session**

Moderator: Carlo Reita (CEA LETI, F)

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17:00 **Future European Strategy for Future Microelectronics**  
Patrick Bressler (Fraunhofer, D)  
Jyrki Kiihamaki (VTT, FI)

18:00 - 19:00

Break

**19:00 - 22:00**  
**Social Event**

Restaurant "Alte Meister", Theaterplatz 1a, 01067 Dresden, <https://altemeister.net/>

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19:00 **Welcome and Award of EDA Medal  
2022**

19:30 **Dinner**

**Thursday, June 30, 2022**

**09:00 - 10:00**

**Keynote Session**

Moderator: Gilles Sicard (CEA-LETI, F)

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09:00 **Trusted Computing Assets and Challenges as by Today and Tomorrow Towards a Cybersecured  
World**

Bernard Candaele (Thales, F)

[Slides \(Access for event attendees only\)](#)

**KDT Program Presentation**

09:30 Yves Gigase (Head of KDT programs, BE)

[Slides \(Access for event attendees only\)](#)

10:00 - 10:30

Coffee Break

**10:30 - 12:00**

**Technical Session 4: Industrial Electronics**

Moderator: Thomas Heurung (Siemens EDA, D)

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10:30 **Challenges in Industrial Power Module Design: Requirements for a Seamless Flow from Concept to  
Production**

Felix Zeyß (Siemens, D)

[Slides \(Access for event attendees only\)](#)

**Supply Chain Resilience Starts at the Point of Design**

10:55 Thomas Heurung (Siemens EDA, D)

Sascha Bütterling (Supplyframe, D)

[Slides \(Access for event attendees only\)](#)

**Addressing the Need for Earlier Design Analysis and Decisions in the Age of Industrial 5G**

11:20 Rocco Gruschwitz (Siemens EDA, D)

[Slides \(Access for event attendees only\)](#)

11:45 **Questions and Answers**

Thomas Heurung (Siemens EDA, D)

12:00 - 13:00

Lunch

**13:00 - 14:45**

**Technical Session 5: IPCEI**

Moderator: Gilles Sicard (CEA-LETI, F)

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13:00 **Ceremony of EDA Achievement Award 2022**

13:15 **From IPCEI 1 to IPCEI 2 on Microelectronics: 5 Times more Impact in 5 Years**

Dominique Thomas (STMicroelectronics, F)

[Slides \(Access for event attendees only\)](#)

13:35 **From IPCEI to EU Chips Act: The Efficacy of new European Instruments**

Jens Drews (Globalfoundries, D)

**Bosch 300mm – AIOT Semiconductor Fab**

13:55 Sarah Fischbach (Bosch, D)  
[Slides \(Access for event attendees only\)](#)

**Globalfoundries Technology Solutions in the Context of European Sovereignty in Microelectronics**

14:15 Maciej Wiatr (Globalfoundries, D)  
[Slides \(Access for event attendees only\)](#)

**Questions and Answers**

14:35 Gilles Sicard (CEA-LETI, F)

14:45 - 14:55

Break

**14:55 - 15:55**

**Technical Session 6: Sustainability and Eco-Design**

Moderator: Wolfgang Nebel (edacentrum, D)

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**The Journey towards Green and Carbon Neutral Electronics – Carbon Accounting, Ecodesign and Policy Trends**

14:55 Harald Pötter (Fraunhofer IZM, D)  
[Slides \(Access for event attendees only\)](#)

**Sustainable Sensors for Massively Distributed Monitoring Applications**

15:20 Luca Roselli (U Perugia, IT)

**Questions and Answers**

15:45 Wolfgang Nebel (edacentrum, D)

**Closing Remarks**

15:50 Wolfgang Nebel (edacentrum, D)

15:55 - 16:15

Coffee & Farewell

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