

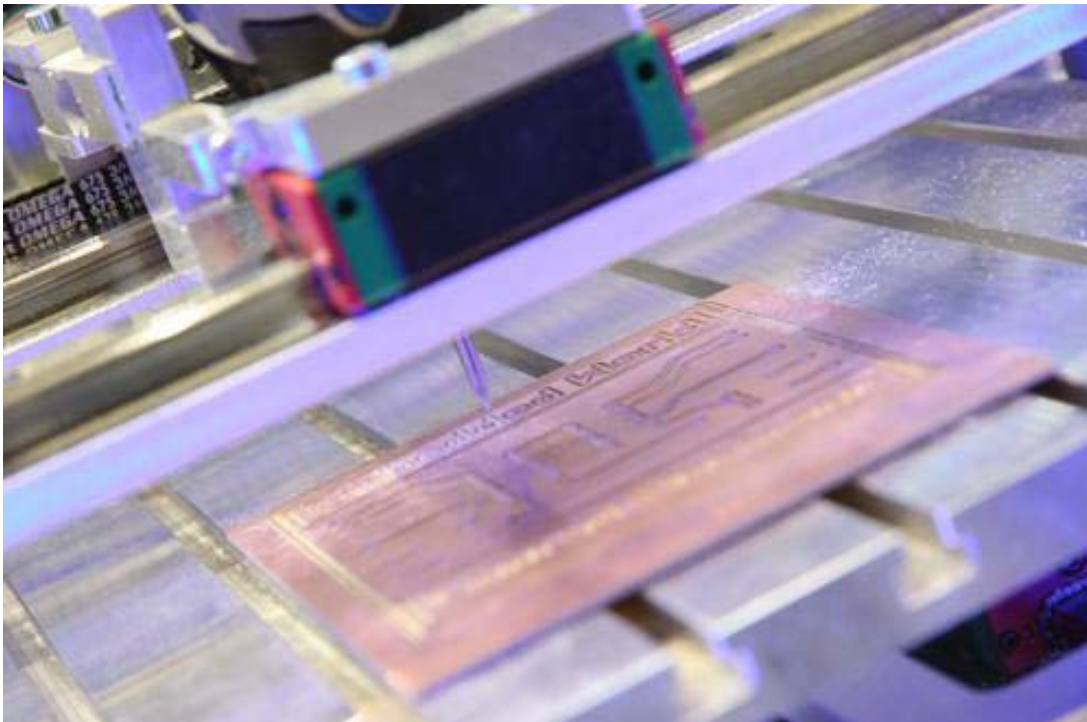


**embeddedworld2018**

Exhibition&Conference

... it's a smarter world

# Call for Papers



NuernbergMesse / Frank Boxler

**embedded world Conference**  
**27.2. – 1.3.2018 Nürnberg, Germany**  
**[www.embedded-world.eu](http://www.embedded-world.eu)**

## IMPRESSIONS 2017



NuernbergMesse / Frank Boxler

## embedded world – the leading international fair for embedded systems

Be it security for electronic systems, distributed intelligence, the Internet of Things or e-mobility and energy efficiency – the embedded world trade fair in Nuremberg enables you to experience the whole world of embedded systems.

The embedded world Conference is the world's largest event of its kind with over 1,700 participants. The audience comprises experienced and knowledge-hungry embedded system developers, project and product managers. The conference has become an integral part of the dynamic environment of the embedded world trade fair. With 30,000 visitors, it has been an international professional meeting place for many years.



## embedded world Conference 2018

The embedded world Exhibition & Conference is the world's leading meeting place for the embedded systems community. This is where experienced developers come to share their knowledge and help others to convert their ideas and inventions into real products. In its 16th year, the motto of the Conference reflects the unbroken innovative power of the industry: "Embedded goes autonomous".

From a wide range of sensors and all the way to embedded vision, systems are increasingly becoming aware of their environment, making independent decisions and using actuators to engage with the world around them. For these systems to be applied, technical logic must be further developed in such a way that complex decision-making is possible. Developers must even take account of ethical considerations.

The conference covers all aspects of the development and application of Embedded Systems, from basic technologies to the development process to special application areas:

### Enabling Technologies:

- Connectivity
- Embedded OS
- Safety & Security

### Engineering and Design of Hardware, Software and Systems:

- Hardware Engineering
- Software Engineering
- Systems Engineering
- Management of Engineering Processes

### Application Technologies:

- Internet of Things
- Embedded Vision
- Autonomous Systems

Participate actively in the presentations and discussions of the embedded systems community and submit a technically sound abstract on a current issue or a challenge that developers will face in the future.

Present future-oriented technologies, new ideas or smart management concepts for efficient development and life-cycle processes. Allow your presentation to stimulate fruitful discussions and help other engineers and managers benefit from your experience. In addition to the presentation format, you can also participate as a lecturer in a "Class" at the embedded world Conference. In these half – or whole day classes, technical topics are examined extensively and interactively with the participants.

You can submit your proposal, in English, easily and conveniently on the website [www.embedded-world.eu](http://www.embedded-world.eu). Here you will also find further, detailed information on topics and conference. The program committee looks forward to receiving your submission by September 7, 2017.

A handwritten signature in black ink, which appears to read "Prof. Sturm".

**Prof. Dr. Matthias Sturm**  
**HTWK Leipzig**  
**Conference Chairman**

## Topics of interest include, but are not limited to:

### Enabling Technologies

<b>1. Connectivity</b>	1.1 Bus Systems
	1.2 Network Technologies
	1.3 Wireless Technologies
	1.4 Narrowband & Long-range IoT
	1.5 Connectivity, e.g. for Industry 4.0, Automotive, ...
<b>2. Embedded OS</b>	2.1 RTOS
	2.2 Embedded Linux
	2.3 Android
	2.4. Virtualisation and Containers
<b>3. Safety &amp; Security Focus</b>	3.1 Functional Safety
	3.2 Standards & Application
	3.3 Securing Embedded Communication
	3.4 Securing Embedded Devices
	3.5 MILS: Architecture and Assurance

### Engineering and Design of Hardware, Software and Systems

<b>4. Hardware Engineering</b>	4.1 Cortex
	4.2 Low Power & Ultra Low Power
	4.3 Multicore
	4.4 System On Chip
	4.5 FPGA & ASIC Design
	4.6 Signal & Power Integrity
	4.7 PCB Design
	4.8 Board-level Computing
<b>5. Software Engineering</b>	5.1 Requirements Engineering
	5.2 Software Design & Modeling
	5.3 Components Based Design
	5.4 Verification, Debugging & Test
	5.5 Code Analysis
	5.6 Software Quality
<b>6. Systems Engineering</b>	6.1 Requirements Engineering
	6.2 Function Based Design
	6.3 Systems Design & Modeling
	6.4 System Test
	6.5 System Simulation
	6.6 Hardware in the Loop
	6.7 Virtual Integration
	6.8 Embedded GUI Development & Test
	6.9. Augmented Reality
	6.10 HiPEAC Special Session: High Performance Embedded Architectures
<b>7. Management of Engineering Processes</b>	7.1 Management of Embedded System Design
	7.2 Project Management: Methods and Tools
	7.3 Product & Development Life Cycle Management
	7.4 Agile Methods
	7.5 Application of Standards

## Applications

<b>8. Internet of Things</b>	8.1 Application Profiles
	8.2 Edge/Fog/Cloud Computing
	8.3 M2M Communications
	8.4 Embedded Internet Technologies & Web Services
	8.5 Software Platform for IoT
	8.6 Embedded Data Analytics
<b>9. Embedded Vision</b>	
<b>10. Autonomous Systems</b>	10.1 Artificial Intelligence & Deep Learning
	10.2 Sensor Systems, Fusion & Algorithmics
	10.3 HMI and Optimization Algorithmics

Until **September 7, 2017** you will have the opportunity to shape the program content. Please find more details about the Call for Papers at: [www.embedded-world.eu](http://www.embedded-world.eu)

### **Language:**

The conference language is English. All submissions must therefore be in English.

### **Originality:**

Submissions to embedded world Conference 2017 should not have been published previously in a journal or conference proceedings, nor presented at another conference, nor currently under review or consideration for publication or presentation elsewhere.

### **Important Deadlines:**

- Abstract Submission: **September 7, 2017**
- Notification of Authors: **October 26, 2017**
- Final Paper (ISBN): **January 19, 2018**
- Final Presentation: **February 12, 2018**

## Steering Board 2018:



Prof. Dr. Helmut Beikirch  
University Rostock



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Sciences/Hahn-Schickard



**Conference Chair**  
Prof. Dr. Matthias Sturm  
HTWK Leipzig

## CONTACT:

### Project Manager embedded world Conference:



Mrs. Renate Ester  
WEKA FACHMEDIEN GmbH  
Richard-Reitzner-Allee 2, 85540 Haar, Germany  
P +49(0)89/255 56-1349, F +49(0)89/255 56-0349  
rester@weka-fachmedien.de

### Sponsoring & Promotion embedded world Conference:



Mrs. Corina Prell  
WEKA FACHMEDIEN GmbH  
Richard-Reitzner-Allee 2, 85540 Haar, Germany  
P +49(0)89/255 56-1393, F +49(0)89/255 56-0393  
cprell@weka-fachmedien.de

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## embedded world Exhibition:



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Exhibitors interested in presenting their products at embedded world Exhibition, please contact:



Mrs. Brigitte Seipt  
NürnbergMesse GmbH  
Messezentrum, 90471 Nürnberg, Germany  
P +49(0)911/86 06-8900, F +49(0)911/86 06-8901  
brigitte.seipt@nuernbergmesse.de

## Contact form

### Please send further information:

- Call for Papers  
(including detailed information on abstract submission)
- Sponsoring & Promotion
- Conference Program
- embedded world Exhibition

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