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CEBIT INNOVATION AWARD 2018

Press Kit

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PRESS RELEASE

Blocking period: 12.6.2018, 12.00 midday

Winning IT innovations: Federal Research Minister Karliczek presents the CEBIT Innovation Award 2018 for the best ideas

HANNOVER, 12 June 2018 – The Federal Ministry of Education and Research (BMBF) and Deutsche Messe AG present the sixth CEBIT Innovation Award. The total prize money of 100,000 euros is awarded to young developers whose innovative IT ideas convinced the expert jury.

The first prize worth 50,000 euros goes to Johannes Riedel and Mathias Rudnik and their team for their AIPARK app. The app supports drivers looking for a parking space: It accesses a dynamic data pool which includes roughly 60 million parking spaces and thereby helps to reduce urban traffic and environmental pollution. Anja Karliczek, the Federal Minister of Education and Research, presented the award to the winning AIPARK team at the CEBIT Welcome Night on 11 June.

The second prize of 30,000 euros goes to the developers of Crashtest Security which automatically detects and fixes security gaps in web applications using a special database. Crashtest Security is easy to use and helps developers identify bugs in website programming and provide for the security of their own and other people's data.

The jury decided to give a special practice prize of 20,000 euros to the team who developed DIVERA 24/7. This app is an important tool for operations managers, e.g. of voluntary fire brigades: It provides comprehensive information about staff availability and enables quick action in emergencies. DIVERA 24/7 is mainly for the benefit of fire and rescue services but also other areas such as crisis management can optimize their staff planning with the app.

Karliczek: „Ideas demonstrate great creativity“
Federal Research Minister Anja Karliczek said at the award ceremony: „I am impressed by the creative ideas and their user-friendly implementation. Here we have intelligent examples of the technologically possible linked to everday needs. I congratulate all the award-winners who have so impressively demonstrated how digital technologies can improve our lives.“

Professor Wolfgang Wahlster, member of the jury and Technical and Scientific Managing Director and CEO of the German Research Centre for Artificial Intelligence (DFKI), emphasized the great topicality of the presented ideas: „This year, the use of artificial intelligence played a major role in all the award-winning projects: from the innovative system for locating free parking spaces to the security check feature for web applications. The jury was thrilled by all the innovative approaches which still put humans at the centre of their digital solutions.“

Highly innovative technical solutions honoured since 2013
As co-initiator of the award, Deutsche Messe AG has been involved in the award procedure since the first CEBIT Innovation Award was presented in 2013. Oliver Frese, member of the Managing Board of Deutsche Messe AG, is convinced of the transborder relevance of this award: „CEBIT offers teams of developers an opportunity to present their products to a large audience of experts and other interested visitors. For six years now, we have enabled committed young talents to develop their ideas for the market.“ We will continue to honour creative technical innovations with the CEBIT Innovation Award in future. Interested teams can now apply for participation in the competition for the CEBIT Innovation Award 2019 at www.cebitaward.de . The deadline for application is 1 November 2018.

More information at:
www.cebitaward.de

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Information Winners 2018

AIPARK – Finding a parking space quicker
1st Prize, 50,000 euros

Finding somewhere to park is time-consuming – especially in cities. The cloud-based AIPARK app offers drivers a solution in the form of a dynamic street map showing them the nearest free parking spaces. Not only does the app provide recommendations for both public and commercial parking spaces, it also calculates the probability of actually getting the respective spaces.

Unlike rival products, AIPARK offers nation-wide data availability by drawing on real-time data from more than five million smart phones. When predicting the availability of parking spaces the system also uses Artificial Intelligence to analyse and process long-term information such as traffic-light, traffic-flow and weather data as well as geographical features. The system has data on around 60 million parking spaces. It also offers information on car park opening times and provides a direct feedback feature to report on individual experiences.

Constantly updated parking availability predictions are shown by traffic light symbols on the dynamic map. The AIPARK app aims to permanently reduce unnecessary traffic in towns and cities and to make the search for parking spaces more efficient. AIPARK can also be used on other Internet platforms. The app is aimed above all at drivers in towns and cities where the parking situation is often acute, particularly at peak times. At the same time, the application can also help cities to plan their parking needs and availability.

AIPARK plans to expand its application to cover other European countries in future. In addition, users will be shown parking spaces that are tailored to their needs, based for example on data such as vehicle size. Another goal is to collaborate with car manufacturers in order to have an input in the further development of autonomous driving.

AIPARK is a commercial spin-off from the Technische Universität Braunschweig involving Johannes Riedel and Mathias Rudnik together with five other developers.

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Crashtest Security – Enhanced security for web applications
2nd Prize, 30,000 euros

Many transactions today are conducted online. This means that large quantities of the frequently sensitive data required for payment and accounting procedures are collected, processed – and all being well – protected from unauthorized access. This is where Crashtest Security comes in: The company is providing a comprehensive security testing tool for programs on the web. Gaps in data security can be recognized, analysed and remedied using a public vulnerabilities database.

Terms such as “big data” are playing a major role in the current public discourse and data protection is no longer a topic solely for experts. Small companies and private website operators need to protect not only their own data but also that of their customers and visitors. Crashtest Security mainly addresses people operating websites where confidential data needs to be protected. The particular focus is on small and medium-sized enterprises, software-as-a-service firms and the field of Industrie 4.0 in mid-sized companies.

The Crashtest Security Suite can be used by companies to expose security problems in a web application. The tool performs a security scan of the website to search for vulnerabilities. With the aid of machine-learning algorithms it continuously learns new ways to overcome obstacles and identify flaws. The website concerned must first be verified to prevent misuse. Following the security scan, a reporting and vulnerability scoring system enables the prioritization of the detected vulnerabilities. An own public database contains information on every vulnerability and forms the basis for their quick and efficient removal. The Crashtest Security application can also help to reduce the cost of engaging external IT services.

The Crashtest Security team aims to continue working on the product’s certification with a view to guaranteeing a comprehensively recognized security status. It also intends to create an option for large-scale clients to protect important data.

Janosch Maier and his three-man team are the brains behind Crashtest Security. By pooling their skills in informatics and management they aim to use their innovative application to improve cybersecurity.

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DIVERA 24/7 – Operational readiness visualized in real time
Special practice prize, 20,000 euros

The time it takes for the relevant emergency services to arrive at the scene of an incident can mean the difference between life and death. The team behind DIVERA 24/7 have therefore developed this app to make personnel deployment easier and more efficient for the emergency services. The app provides at-a-glance overviews of response waiting times as well as the number and skills of emergency responders. The aim is to optimize the whole emergency response chain, starting with the initial alert of the emergency services through to their arrival at the scene.

DIVERA 24/7 registers the availability of emergency responders together with their expert skills before an incident arises and is therefore able to provide optimal information the moment the alarm is raised.

The app makes it possible to identify and compensate for staffing shortages in advance. This means that the emergency services are able to get to the site of an incident more quickly. The app also enables services to optimize their forward planning as well as to identify personnel availability and skills gaps faster and more accurately. Personnel availability is registered by means of GPS, calendars, or manually via the app or by telephone. DIVERA 24/7 employs digital technologies and uses an approach spanning different organizations and levels to support volunteer involvement in areas such as volunteer fire services.

More than 50,000 emergency responders in Germany are already using the app, which is highly practical and relevant not only for fire services. DIVERA 24/7 can also be used in other sectors, for example by events agencies and hospitals or for crisis management.

Developed by the company Fire & Rescue Instructions GmbH, DIVERA 24/7 addresses a core problem facing volunteer emergency services. The people behind the idea for this system include Bernhard Horst, Benjamin Kreiskott and Patrick Remy, who have pooled their expertise in crisis management, firefighting and information technology to design and develop the app.

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About the CEBIT Innovation Award

The Federal Ministry of Education and Research (BMBF) and Deutsche Messe AG (DMAG) are presenting the sixth CEBIT Innovation Award this year. The competition offers a total of 100,000 euros in prize money. Participants were invited to submit outstanding ideas for creative digital solutions of great innovative value.

Background
Research and development in Germany are setting standards in the IT sector. Convincing and user-friendly IT products are in great demand. Young entrepreneurs throughout Germany are coming up with suitable solutions for problems in everyday private and working life. They participate in the competition for the CEBIT Innovation Award to test the potential market success of their developments and to find new partners. The CEBIT Innovation Award provides an ideal platform where start-ups in particular can present themselves to an expert audience. Every year, the CEBIT Innovation Award highlights the diversity, performance and innovative capacity of both established research institutions and young innovators.

Target group
The competition targets qualified young academics who are engaged in development activities at a university, research institution or company or who want to join the start-up community. They are invited to submit innovative ideas for sophisticated technical solutions. Applicants from all sectors are welcome. The winning innovations of the past years have covered many different areas including computer science, computer graphics and data fusion.

Competition
Young developers from all over Germany submitted their applications for the sixth CEBIT Innovation Award. Six finalists were selected to present their exhibits to the jury in a second round. Their ideas were evaluated according to the following criteria: Level of innovation, creativity, feasibility and practical use, and suitability for exhibition at a trade fair. The jury selected the three most promising ideas and assigned them a ranking. The awards will be presented to the winners at CEBIT in Hannover on 11 and 12 June.

Application period for the CEBIT Innovation Award 2019
The application period for the seventh CEBIT Innovation Award starts with CEBIT 2018. Young developers can submit their innovative ideas online at www.cebitaward.de until 1 November 2018.

More information at: **www.cebitaward.de**

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About the jury of the CEBIT Innovation Award

Prof. Dr. Gesche Joost, Jury Chair
Gesche Joost is Professor for Design Research at the Berlin University of the Arts and heads the Design Research Lab of the Telekom Innovation Laboratories. Joost and her team of more than 20 researchers are responsible for the main research and innovation segment of DeutscheTelekom. Her research focuses on the gender and diversity aspects of human-machine interaction, interaction design and the role of the body, and on social design and community building. She has been German member of the club of Digital Champions at EU level since 2014 and was honoured as one of the „100 Heads of Tomorrow“ within the framework of the „Germany – Land of Ideas“ initiative.

Prof. Dr. Elisabeth André
Elisabeth André has been Professor for Human-Centered Multimedia at the Department of Computer Science of Augsburg University since 2001. Together with her 15-member research team, she studies the various aspects of human-computer interaction. She is a member of the German National Academy of Sciences Leopoldina, of the Academia Europaea and AcademiaNet, and is cooperating in a number of research projects at EU level.

Prof. Dr. Susanne Boll-Westermann
Susanne Boll-Westermann has been Professor for Media Informatics and Multimedia Systems at the Computer Science Department of the Carl von Ossietzky University in Oldenburg. She was awarded the first junior professorship at Oldenburg University in 2002 and became member of the Board of the OFFIS e. V. in the same year. She is Associate Editor-in-Chief of the IEEE Multimedia Magazine and a member of the Editorial Board of Springer Multimedia Tools and Applications (MTAP) and belongs to the Special Interest Group on Multimedia of the Association for Computing Machinery (ACM).

Oliver Frese
Oliver Frese assumed overall responsibility for the CEBIT, the world‘s most important digital economy event, on 1 May 2013. He has been working with Deutsche Messe AG since 2004 and was appointed member of its Managing Board in 2013, where he is responsible for ICT & Digital Business Events as well as Technical Services and Services. He studied social sciences and business administration and was Head of Department for energy-themed trade shows and from 2010 Senior Vice President of HANNOVER MESSE.

Julia Kloiber
Julia Kloiber joined the jury of the CEBIT Innovation Award this year. She studied design and new media in the Netherlands and in Austria and has been project manager with the Open Knowledge Foundation Deutschland e. V. since 2012, working on digital issues in the civil society. In 2014 she founded Code for Germany, a network which deals with digital tools for civil society. Currently Kloiber is heading the Prototype Fund, which supports software projects in the data protection, data literacy and civic tech fields.

Prof. Dr. Wolf-Dieter Lukas
Professor Lukas has been Director-General for Key Technologies – Research for Innovation at the Federal Ministry of Education and Research (BMBF) since 2005. He studied mathematics and physics at the Free University Berlin and earned his PhD at the Technical University Darmstadt. After a period of scientific work with the Max Planck Institute for Solid State Research in Stuttgart, he joined the BMBF in 1985. In addition to being a member in the jury of the CEBIT Innovation Award, he is an honorary professor at the Technical University Berlin and cooperates in various advisory and supervisory bodies.

Christine Regitz
Christine Regitz has been honorary Vice President of the German Informatics Society (GI) since 2016. She is working with SAP SE as Vice President User Experience and member of the Supervisory Board. In her current function she is responsible for SAP Fiori and SAP Cloud Platform. She studied business administration and physics at Saarland University and the Università degli Studi in Bari (Italy) and is also a member of the extended management board of the BITKOM „Women in ITC“ working group.

Nikolaus Röttger
Nikolaus Röttger was Editor-in-Chief of WIRED Germany until 2018 and currently serves as advisor to the editors. Between August 2013 and early 2014 he was Editor-in-Chief at Gründerszene. Röttger studied political science, economics and sociology in Munich and Bradford. He founded and edited the business and lifestyle magazine „Business Punk“ and worked for Financial Times Deutschland and the online portals Yahoo, sueddeutsche.de and jetzt.de.

Prof. Dr. Wolfgang Wahlster
Professor Wahlster is the CEO of the German Research Centre for Artificial Intelligence (DFKI), which has research facilities in Kaiserslautern, Saarbrücken and Bremen, and he is the Centre‘s Technical and Scientific Managing Director. He has been awarded numerous honorary doctorates and research prizes and is actively involved in a number of academic bodies including the Nobel Prize academy in Stockholm and the German Government‘s Industry-Science Research Alliance, and he has also been Chair of the jury of the Hermes Award for many years.

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