



## NUCLEI NEWSLETTER

### Upcoming Events

**NUCLEI Working Table: Innovation Management for Industry 4.0 Solutions in Advanced Manufacturing, Stuttgart, Germany, 20th of June**

[Steinbeis Europa Zentrum gGmbH](#) and [CRIT S.R.L.](#) will hold a Working Table on Innovation Management, within the [ICE/IEEE ITMC Conference](#) which takes place in Stuttgart from 10.00am to 11.00am on the 20th of June 2018. The event aims to address and gather innovative manufacturing companies, innovation managers, researchers and developers, engineers, scientists as well as consultants to discuss and reflect on European innovation management practices and bring together companies in the area of advanced manufacturing with an interest in open innovation and activities in innovation management. Mr Björn Sautter ([Festo AG](#)), Mr Marco Lemessi ([John Deere GmbH & Co.KG](#)), and Mr Maurizio Orlandi ([Epta Spa](#)) will share experiences and best practices. Participants are offered ground for discussions, which may influence their respective innovation management processes and may enhance their transnational value chain. Possible cooperation for OI endeavors and investments could be triggered.

Click [here](#) to register for the conference and receive a discount.

**Makeathon 'MAKE, CREATE & HAVE FUN', Munich, Germany, 21st - 22nd of June**

In cooperation with [Messe München](#) and [Conrad Electronic](#), the NUCLEI partner [ITQ GmbH](#) organises a Makeathon 'MAKE, CREATE & HAVE FUN' at the [automatica](#) fair in Munich on the 21st and 22nd of June 2018. Interdisciplinary teams of young software developers, mechanics and mechatronics engineers

compete to develop prototypes for intelligent automatic applications and robots in just 24 hours. Since its launch in 2016, the competition has enjoyed great popularity.

Are you interested? Please register [here](#).

**German-Italian business pitches at automatica fair, Munich, Germany, 21st of June**

At the cluster community booth of [Cluster Mechatronik & Automation](#) eleven German exhibitors will present themselves and their innovative technologies under the logo of the cluster network. The NUCLEI partners Cluster Mechatronik & Automation together with [CRIT S.L.R.](#) from the Emilia Romagna region and the [German-Italian Chamber of Commerce](#) will host a German-Italian business pitches, where companies from both Bavaria and Northern Italian regions will have the chance to get to know each other directly on 21st of June.

The round table of Bavarian and Italian companies serves to highlight common grounds in automation technology and strengthen the transnational relations between the industries in both regions. The traditionally good bonds between the regions in the fields of machine engineering, electronical production and automotive sectors offer a good opportunity for a sustainable macro-network of participating companies.

The automatica is the leading trade fair for optimization and innovative solutions for intelligent automation and robotics and will take place from the 19th to the 22nd of June 2018.





# ERA OF CONNECTEDNESS: THE FUTURE OF TECHNOLOGY, ENGINEERING & INNOVATION IN A DIGITAL SOCIETY

Stuttgart, 17.06.-20.06.2018

In the last two decades, the 24th ICE/IEEE ITMC Conference has brought together leading academics, researchers and practitioners, contributing to the global debate on research science and innovation.

## Report on Past Events

### Circular Economy and Industrial Symbiosis, a new path for manufacturing, Vignola, Italy

The seminar has provided the key elements to understand the new industrial paradigm underneath **Circular Economy** and its potential applications in the context of manufacturing companies.

Firstly, theoretical principles and aims of Circular Economy were illustrated by highlighting its role in the European agenda for economic development, and underlining its role as a lever for business management (design, servitization, reverse logistics). Emphasis was given to the interconnections with the **Industry 4.0** development plan and related technologies, such as the Internet of Things (IoT), 3D Printing, Big Data & Analytics, Clouds and digital platforms.

Moreover, an approach to Circular Economy based on **life cycle analysis (LCA)** was illustrated. The LCA is one of the main tools for the assessment of resource use and process planning, making it a useful tool for the development of Circular Economy strategies.

Practical **case studies** were shown, to demonstrate the feasibility of Circular Economy. [Astelav](#), one of the leading European companies in the distribution of spare parts for household appliances, has illustrated the [RIGENERATION project](#) concerning the interception and reconditioning of waste electrical and electronic equipment (WEEE). Subse-

quently, the Spanish research center (IRIS) has presented principles and case studies related to the application of **industrial symbiosis** in manufacturing contexts.

### ICT in Production, Prague, Czech Republic

The NUCLEI partner [Czech Technical University \(RCMT\)](#) organised an open seminar on ICT in manufacturing on the 5th of April 2018. The main topic was how information and communication technologies can contribute to increasing productivity and decreasing production costs, thus enhancing the competitiveness of companies. Linking data across the entire production chain, processing data and responding appropriately according to information gathered is the way to make it.

Please click [here](#) for more information.

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