

## **Ischia, Italy, 18/07/2012: CIRP Conference on Intelligent Computation in Manufacturing Engineering, Innovative and Cognitive Production Technology and Systems**

18 members of the European Commission FP7 funded FoFdration project attended the 8th CIRP Conference on Intelligent Computation in Manufacturing Engineering held in Ischia, Gulf of Naples, Italy. The Conference attracted over 150 delegates and guests from 26 countries and 5 continents.

The main aim of the Conference was to provide an international forum for the exchange of knowledge, information, experience and results as well as reviewing the progress made. It also acted as a forum for discussions on the state-of-the-art and future trends in intelligent computation methods and tools applied to manufacturing processes and systems. FoFdration partners were particularly enthused to attend a joint session with the IFaCOM project, which like FoFdration is a PPP-FoF project, and in this discuss developments of both projects.

Professor Roberto Teti, an expert in technological innovation in manufacturing engineering and intelligent computing for manufacturing technology and systems, opened the conference and welcomed all the delegates. The greetings were followed by plenary session presentations from the rest of the Conference panel, firstly by Professor Marco Satochi, CIRP President, who detailed the background of the CIRP as “A Unique Academy in Production Engineering”. Dr. Masahiko Mori, Mori Seiki (Japan), then spoke passionately about “Remote Monitoring System for CNC Machine Tools”, and Professor Dr. Gideon Levy, Inspire AG, finished with an animated talk on Additive Manufacturing.



*2012 CIRP Conference Panel (from l-r) – Professor R. Teti, Professor M. Satochi, M. Mori, Professor Dr. G. Levy*

In the joint FoFdration-IFaCOM session, the FoFdration project scientific coordinator, Van Khai Nguyen of CADCAMation (Switzerland), presented a paper entitled “An Enabling Digital Foundation towards Smart Machining” which was very well received and generated interesting discussions, particularly regarding the sustainability element of the project. Conference Chairman Professor Roberto Teti attended the session and was very enthusiastic about the developments and results of the project so far.

Other papers were also presented in this joint session which included a thought-provoking talk on “Zero Defect Manufacturing; a Product and Plant Oriented Lifecycle Approach” by Odd Myklebust from Sintef, Norway, and a fascinating speech on “Image Data Processing via Neural Networks for Tool Wear Prediction” by Doriana D’Addona and Professor Roberto Teti, where they had produced images with standard size and pixel density from elaborating tool image files obtained during cutting tests.

The CIRP Conference, and especially the combined FoFdration-IFaCOM session, was a thoroughly enjoyable experience for all participants involved, both speakers and attendees, and an unparalleled opportunity for experts from a wide range of backgrounds to share their findings and to discuss the future of manufacturing.

For more information about the FoFdation project visit <http://www.fofdation-project.eu> and the project's social media pages, including Facebook (#fofdationproject) and Twitter (@FoFdation).

**Acknowledgements:**

This project is co-funded by the European Commission as part of the European Economic Recovery Plan (EERP) adopted in 2008. The EERP proposes the launch of Public-Private Partnerships (PPP) in three sectors, one of them being Factories of the Future (FoF). Factories of the Future is a EUR 1.2 billion program in which the European Commission and industry are collaborating in research to support the development and innovation of new enabling technologies for the EU manufacturing sector.

*For further information please visit:*

*[http://ec.europa.eu/research/industrial\\_technologies/factories-of-the-future\\_en.html](http://ec.europa.eu/research/industrial_technologies/factories-of-the-future_en.html)*