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1st Announcement

**International Federation for Information Processing
(IFIP)**

**Technical Committee 5 (TC 5)
15th International Conference**

NEW PROLAMAT 2013

**DIGITAL PRODUCT and PROCESS DEVELOPMENT
SYSTEMS** Information Technology in Product Realization,
Intelligent Strategies in Product Design, Manufacturing and
Management

Date: 19-21, June 2013

Place: Dresden, Germany

**Organizers:
IFIP TC 5 and BVMW**

Call for papers

Those who are interested in presenting papers on the topics listed, or in any area which fits in the general scope of the conference, should send their complete paper to PROLAMAT 2012 secretariat or to the conference chair **15th January 2013**.

Welcome

PROLAMAT is one of the oldest conferences in the field of manufacturing. Created in 1969 in Roma as the "**PRO**gramming **L**anguages for **M**achine **T**ools" and Digital Computer Application to Process Control conference this triennial event has been a basic meeting for academic and industrial experts in manufacturing ever since.

Recently PROLAMAT has been reorganized into NEW PROLAMAT. It now includes not only the original topics, but all other Information Technologies that automate, integrate, and optimize the process of innovation, design, manufacturing and management, including environmental and life-cycle issues. PROLAMAT is now interpreted as "**Project Research On Leading-edge Applications and Methods for Applied Information Technology**". One of the best attended PROLAMAT conferences took place in 1988 in the city of Dresden. It is an honor for the organizers to welcome again the conference participants in Dresden.

Scope

The effective mastering and further developments of industrial process chains require continuous improvements by means of product and process innovations. Because of the entire dynamic development in all engineering and research-fields, knowledge and experience exchange related to highly developed software is of utmost importance. Under the general framework of complete PLM (Product Life-cycle Management) strategies some of the most essential working fields will be focused on at the NEW PROLAMAT 2013.

Suggested Topics

On this occasion original scientific industrial-approved results are expected in the following – and related - topics:

1. Information Technology in the product realization, virtual product and process optimization.
 - 1.1 PLM-Tools for integrated digital process chains
 - 1.2IT-Applications for product and process innovations in leading companies
 2. Automatic process planning, simulation and integration in product-and production data management.
 3. Software developments for multi-axis high speed and high precision manufacturing.
 4. Rapid innovation by Additive Manufacturing and Mass Customization.
 5. Process control and monitoring for new manufacturing procedures.
 6. Manufacturing quality control, sensorfusion, optical measurement and reverse engineering.
 7. Sustainable production resource management.
 8. Knowledge engineering and future-oriented education.
 9. Virtual and extended manufacturing and products.
- Besides research-oriented papers the Organizers also wish to give industrial users and suppliers an opportunity to present lectures, poster sessions and exhibits.