informatik-Kolloquium

Der Fachbereich Informatik der Johannes Kepler Universität Linz[1] lädt in Zusammenarbeit mit der Österreichischen Gesellschaft für Informatik (ÖGI) zu folgendem Vortrag ein:

Klaus Seyerlehner
Primetals Technologies Austria

Computational Engineering and the Metals Business - Are you clogged?

Thursday, June 11, 5:15 pm,
Room JKU S3-055 in Science Park 3,

Abstract:
Today automation systems are a key success factor in the steel industry. A typical software stack of a steel plant consists of a heterogeneous layered set of software systems that optimize the production process at different levels of abstraction ranging from high level order tracking and order assignment systems to low level PLC control systems for individual plants.

This talk will give a brief overview of the steel making process and provide a brief overview of the typical software stack of a steel plant. This will provide the necessary context information for the Nozzle Expert. The Nozzle Expert is a Primetals software product that constantly monitors the water flows, air flows and water pressures of a slab caster's spray cooling system to predict nozzle clogging and cooling water leakage for all cooling zones along the strand. We will then present two different approaches to realize a Nozzle Expert and discuss their strengths and weaknesses.

Short Bio:
Klaus Seyerlehner holds a M.Sc. and a Ph.D. degree in Computer Science both from Johannes Kepler University. He was working as a research assistant for the Austrian Research Institute for Artificial Intelligence (OFAI) and the Institute of Computational Perception (CP) from 2006 till 2011. He received the Award of Excellence form the Austrian ministry of science for his thesis. Since 2011 he is working for Primetals Technologies (former Siemens VAI Metals Technologies) as a Software Engineer for automation systems of steel plants.

Univ.-Prof. Dr. Volker Strumpen
Institute for Computer Architecture

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[1] Der Fachbereich (http://informatik.jku.at) besteht aus folgenden Instituten:
Application Oriented Knowledge Processing (FAW), Bioinformatics, Computational Perception, Computer Architecture, Applied Systems Research and Statistics, Computer Graphics, Formal Models and Verification, Networks and Security, Integrated Circuits, Pervasive Computing, Software Systems Engineering, System Software, Telecooperation, Signal Processing