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Vljudno vabljeni na predavanje prof. dr. Gorana Putnika:

**Virtuality in Manufacturing Systems and Enterprises:
Thesis, Architecture and Implementations,**

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Modern competitive, innovative and sustainable organization should be capable to provide unprecedented performance in various dimensions in order to survive in the turbulent environment. To assure these requirements the new enterprise should employ new mechanisms of various sorts. Virtuality is one of these mechanisms. There are two different approaches to employment of virtuality. The first one approach is in the form of powerful virtual reality based simulators of the manufacturing systems, the approach well-known as 'virtual manufacturing'. The second one approach is in the form of (enterprise) architectural pattern that is specifically designed for the networked organization in order to improve the enterprise dynamic reconfigurability, which is necessary to meet the turbulent environment requirements. While in the first approach use of virtuality is 'off-line' from the production process, or enterprise operation, in the second approach the use of virtuality is 'on-line' with the production process, or enterprise operation, assisting 'on-line' reconfiguration of the production network, making it the true virtual enterprise.

The lecture presents 1) the thesis on the virtuality, i.e. the question 'why' using virtuality, 2) the architectural pattern that provide virtuality, in the above terms, to the production network, i.e. to the networked enterprise and how the virtuality makes of the production network the true virtual enterprise, and 3) some implementation issues as well as some experimental results that confirm the thesis on virtuality.

O predavatelju:

Dr. Goran D. Putnik je diplomiral, magistral in doktoriral na Beograjski univerzi. Ukvarja se z inteligentnimi proizvodnimi sistemi. Trenutno je redni profesor na oddelku za proizvodne sisteme in sistemsko inženirstvo na Univerzi Minho na Portugalskem. Je vodja laboratorija za virtualna podjetja. Področje njegovega zanimanja in raziskovanja so proizvodni sistemi, zasnova podjetij, teorija upravljanja in implementacija CIM, CAD/CAPP/CAM sistemov, inteligentni proizvodnih sistemi, strojno učenje, snovanje teoretičnih modelov, kolaborativno in sočasno inženirstvo, upravljanje informacijskih sistemov, teorija proizvodnih sistemov in podjetij, porazdeljena in virtualna podjetja ter kompleksnost upravljanja v organizacijah. Mentor je tudi večim podiplomskim projektom.

Redno publicira in sodeluje na mednarodnih znanstvenih konferencah. Izdal je že več kot dvesto publikacij v mednarodnih revijah in konferencah, ki vključuje tudi šest knjig na področju mrežnih in virtualnih organizacij. Je član večih uredniških odborov v mednarodnih revijah.

Vljudno vabljeni!

Prof. dr. Jožef Duhovnik
DEKAN