"Fundamentals of machining dynamics and digital machining engineering"

Invitation
Prof. Yusuf Altintas
Stuttgart, 19th February 2024
General Information

Date: 19.02.2024
Location: University of Stuttgart, Institute for Machine Tools
- Holzgartenstraße 17
- 70174 Stuttgart
- Room 1.016
Fee: Free
Registration: until 05.02.2024 to maximilian.rapp@ifw.uni-stuttgart.de
Workshop on the engineering principles of digital machining and their application in industry

Agenda

09:00   Arrival
09:30   Welcoming by Prof. Möhring
09:45   Workshop Part 1 by Prof. Altintas
11:15   Coffee break
11:30   Workshop Part 2 by Prof. Altintas
12:30   Get-together with Q&A

Content

• Mechanics of machining and work material data base preparation for cutting process simulation
• Measurement of machine tool and workpiece dynamics at the tool-part contact zone and its interpretation
• Principles of chatter theory and the interpretation of stability charts
• Prediction of process stability and planning of machining operations
• Troubleshooting machining vibrations in production and challenging problems
• Virtual machining of parts in CAM environments
• Digital machining assisted machine tool monitoring and control
• Demonstration of process planning and optimization with CUTPRO, MACHPRO, and NPRO

Speaker

Prof. Yusuf Altintas
Fellow of NAE, RSC, ACATECH, CIRP; ASME, SME
In case accommodation is needed, here are some hotel recommendations:

**Motel One Stuttgart-Hauptbahnhof**  
Kriegsbergstraße 32  
70174 Stuttgart  
+49 711 286968-0  
stuttgart-hauptbahnhof@motel-one.com  
https://www.motel-one.com/de

**Motel One Stuttgart-Mitte**  
Lautenschlagerstraße 14  
70173 Stuttgart  
+49 711 300209-0  
stuttgart-mitte@motel-one.com  
https://www.motel-one.com/de

**Maritim Hotel Stuttgart**  
Seidenstraße 34  
70174 Stuttgart  
Telefon: 0800 3383-711  
Fax: +49 (0) 711 942-1000  
info.stu@maritim.de  
https://www.maritim.de/de/

**Kronenhotel Stuttgart**  
Kronenstraße 48  
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Telefon 0711-2251-0  
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info@kronenhotel-stuttgart.de  
https://www.kronenhotel-stuttgart.de/
Do not hesitate to contact us!

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