

RESEARCH PROJECTS

Machining and Machinery Dynamics Laboratory

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國立成功大學
National Cheng Kung University

Chunhui Chung (鍾俊輝)



• Education

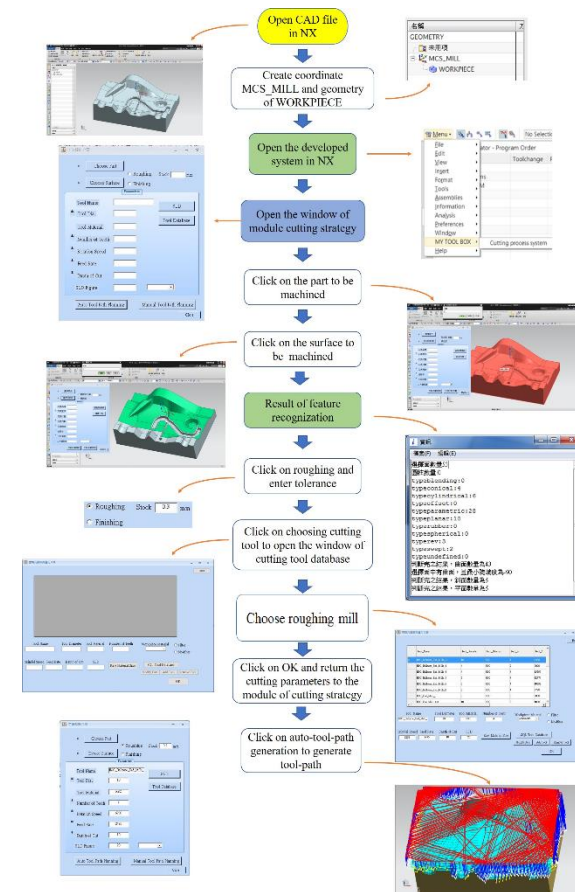
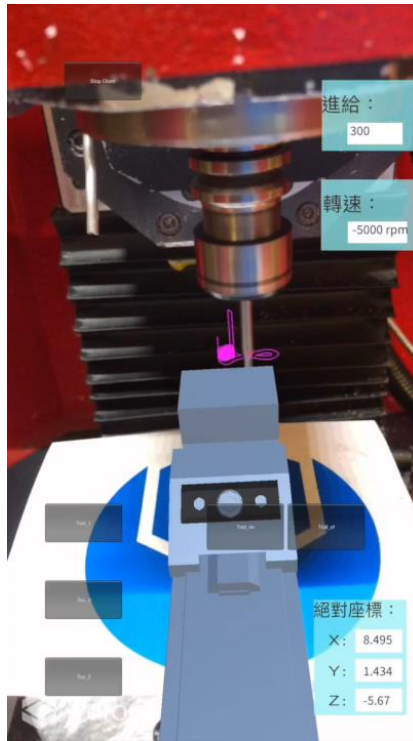
- Ph.D., Dept. of Mech. Eng., SUNY at Stony Brook, 2010.
- M.S., Dept. of Mech. Eng., NCKU, 2004.
- B.S., Dept. of Mech. Eng., NCTU, 2002.

• Working Experience

- Associate Professor, Dept. of Mech. Eng., NCKU, 2018/8-present
- Associate Professor, Dept. of Mech. Eng., NTUST, 2016/8-2018/7
- Vice Director, Industry 4.0 Center, NTUST, 2016/6-2018/7
- Assistant Professor, Dept. of Mech. Eng., NTUST, 2011/8-2016/7
- Postdoc, Dept. of Mech. Eng., NCTU, 2010/8-2011/7
- Engineer, Lite-On, 2004/8-2005/7

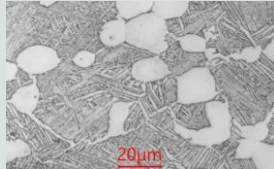
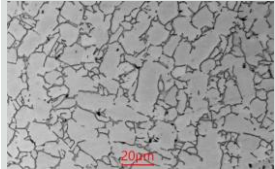
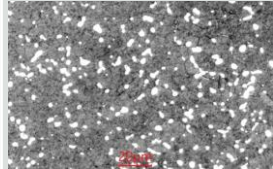
Current and Future Research Plan

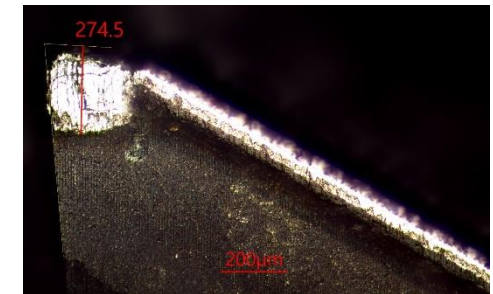
• Applications of CAD/CAM for Industry 4.0



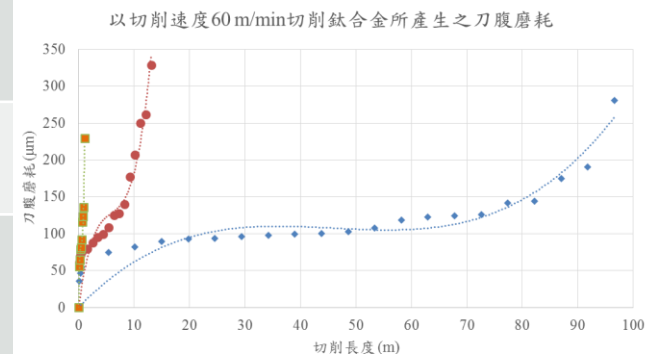
Current and Future Research Plan

- Applications of CAD/CAM for Industry 4.0
- **Cutting of Titanium Alloys**

Material	Ti-6Al-4V_M	Ti-6Al-4V_S	Ti-10V-2Fe-3Al
Microstructure			
Hardness (HRC)	36.30	31.28	43.44
Tool life with cutting speed 60 m/min (m)	9	80	1



(OSG, WXL-EMS)



◆ Ti-6Al-4V_S ● Ti-6Al-4V_M ■ Ti-10V-2Fe-3Al_M

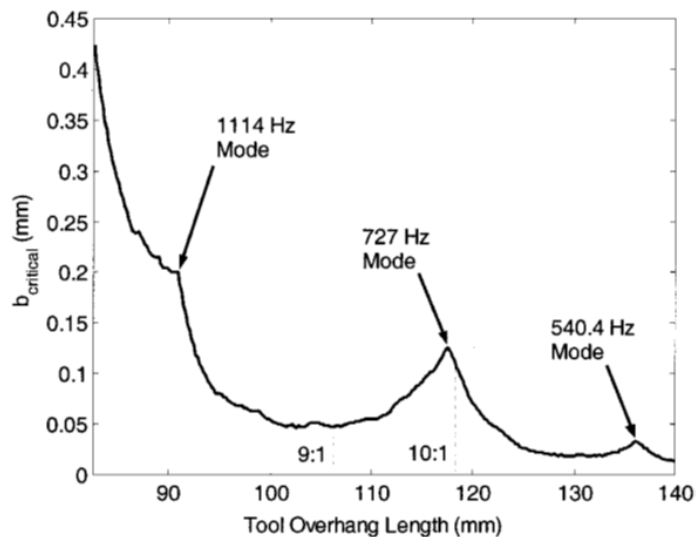
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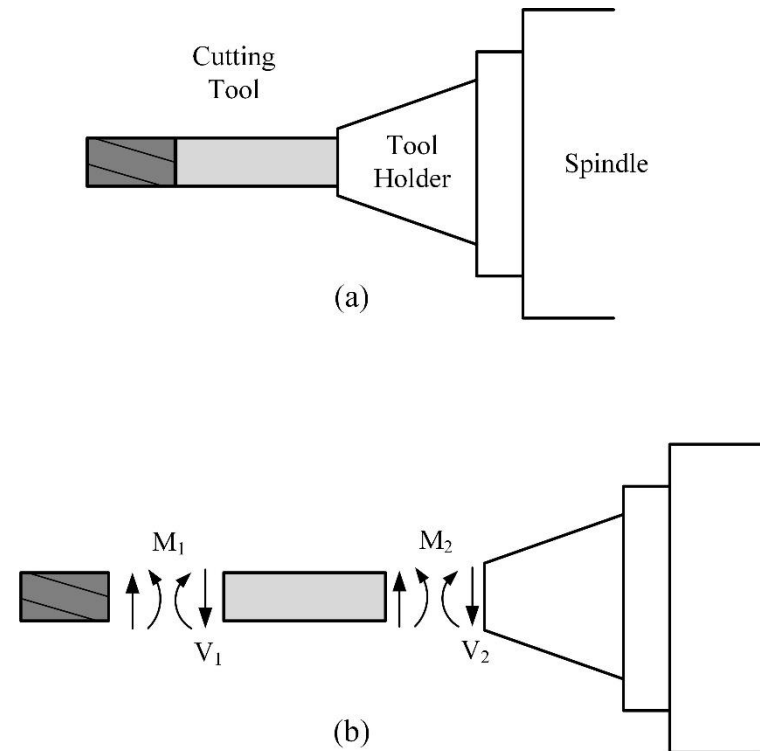
Current and Future Research Plan

- Applications of CAD/CAM for Industry 4.0
- Cutting of Titanium Alloys
- **Analysis of Cutting Chatter**



(Schmitz, et al., 2001)

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