

Rudolf Toth

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5. Műegyetem rkp., 1111 Budapest, Hungary

RESEARCH INTERESTS

Main research area includes machine tool vibrations, time delay systems and nonlinear dynamics.

EDUCATION

Bachelor of Science, Mechatronic Engineering
Budapest University of Technology and Economics 2019

Master of Science, Mechanical Engineering Modelling
Budapest University of Technology and Economics 2022

PhD, Mechanical Engineering
Budapest University of Technology and Economics 2022-
Géza Páttantyús-Ábrahám Doctoral School
Department of Applied Mechanics

AWARDS

Young Investigator Prize at the 11th European Nonlinear Dynamics Conference 2024
for presentation titled:
Bifurcation analysis of digital force control with nonlinear stiffness

PUBLICATIONS

R.R. Toth & G. Stepan: Bifurcation scenarios in the hardware-in-the-loop experiments of highly interrupted milling process *Nonlinear Dynamics*, 111: 22177-22184 (2023)

R.R. Toth & G. Stepan: Robot assisted stabilization for flexible workpieces subjected to highly interrupted cutting *MM Science Journal* (2023)

Z. Dombovari, R.R. Toth, A. Iglesias, D. Bachrathy & G. Stepan: Flip-validated milling process in hardware-in-the-loop environment *CIRP Annals* 72(1): 369-372 (2023)