



UNIVERSIDAD
AUTÓNOMA
DE QUERÉTARO



Universidad Autónoma de Querétaro
Facultad de Ingeniería



BME

**3RD MEXICAN-
HUNGARIAN**

Workshop on Factory Automation and Material Sciences

28th August

UBICACIÓN: AUDITORIO 4TO PISO / PARQUE BIOTECNOLÓGICO
Facultad de Ingeniería UAQ

TIME SLOT	DATE	PRESENTATION TITLE	DATE
Opening of the event	09:00 - 9:30 AM		
Conference 1	09:30 -10:15 AM	Effect of the fluid-structure interaction on the instability of a porous gas bearing	Dr. Azael Sadi Duran Castillo
Conference 2	10:15 -11:00 AM	Self-tuning control systems using artificial intelligence based on dynamic response	Dr. Omar Rodríguez Abreo
Conference 3	11:00 -11:45 AM	Burr Formation and Prediction in Milling and Drilling	Dr. György PÓKA
Conference 4	11:45 -12:30 HRS	A Hot-region Preserving Preprocessing Method to End-to-end CNN Pipeline for Electromechanic Systems Fault Diagnosis From Thermographic Images	Dr. Gilberto Alvarado Robles
Break	13:00 -15:10 HRS		
Conference 5	15:15 -16:00 HRS	Case Studies for Production Process Simulation	Levente ZSÓKA
Conference 6	16:00 -16:45 HRS	Improving the Productivity and Sustainability of CNC Machining Based on Process Monitoring	Dr. Ádám JACSÓ
Conference 7	16:45 -17:30 HRS	Predictive hysteresis model of a mechanical system implementing case-based reasoning techniques for discrete probabilistic dynamic systems	M.C. José de Jesús Santana Ramírez
Conference	17:30 -18:15 HRS	Artificial Intelligence-Based Predictive Modelling of Tool Life in the Frame of Industry 4.0	Dr. Márton TAKÁCS
Closing Event	18:15 -18:30 HRS		

REGÍSTRATE



ORGANIZADORES

Dr. Juan Carlos A. Jáuregui Correa, Dr. Juvenal Rodríguez Reséndiz, Dr. Márton TAKÁCS, Dra. Tania Elizabeth Sandoval Valencia, Dr. Gerardo Hurtado Hurtado, Dr. Marcos Romo Avilés

OBJECTIVE

We aim to disseminate advances in applied robotics, smart sensor systems, predictive maintenance, and sustainable materials. We foster synergies between research groups in Mexico and Hungary to develop joint projects (SECIHTI-Horizon Europe funds). We generate high-impact publications through a special issue of Mechanisms and Machine Science.