

# **MACHINING - THE PRESENT AND THE FUTURE**

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*Abstract: This paper discusses the present and the future of machining with visionary approach in manufacturing challenges. The competitive environment for manufacturing will be significantly different in the near future. Some research trends and developments in tool and tool monitoring, machinability of conventional and new materials, machining for near-net-shape parts, new approach in machining titanium based alloys, high speed machining - high speed hobbing and high speed-broaching, non-conventional processes, micro-fabrication and sub-micron manufacturing - nanofabrication are presented.*

*Keywords. Machining trends, Near-net-shape, Tool monitoring, Small scale production.*