# World Congress on Medical Physics and Biomedical Engineering: Micro- and Nanosystems in Medicine, Active Implants, Biosensors

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Abstract: The proceedings contain 110 papers. The topics discussed include: automated assembly of dynamic micro-bead arrays using a multi-arm laser manipulator with computer vision; nano-porous aerogel biochip for molecular recognition of nucleotide acids; development of a patient controlled, telemetric bolus system for an implantable infusion pump; space saving mixed signal FPGAs for improving processing power and memory capacity as a replacement for μCs in portable biosensor devices; basic concepts for active implantable valve development; estimation of magnetic nanoparticle diameter with a magnetic particle spectrometer; surface acoustic wave (SAW) biosensor chip system - a promising alternative for biomedical applications; development of a generic multiple frequency signal generator for BioMEMS; and femtosecond laser microstructuring and bioactivation of titanium surfaces for middle ear ossicular replacement prosthesis.

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