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Abstract: The proceedings contain 23 papers. The topics discussed include: device fabrication from recycled electronic spare parts: dip coating device and high voltage power supply adapted for electrospinning device; characterization of faults in power transformers based on oil chromatographic analysis in the coastal zone; sine-squared pulse approximation for matched filter design using generalized Bessel polynomials and particle swarm optimization; characterization of modified PID controllers to improve the response time of angular velocity to the voltage step in DC motors by means of a mathematical model diagram using SIMULINK software; designing MPC controller for a heat exchanger equipped with thermoelectric generators; application of pattern matching in heating furnace – rough rolling process; simulation prediction and forming quality control of hemming structure with dissimilar materials oriented to process chain; and homogeneous etherification modification of chitosan and preparation of high-strength hydrogel.

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