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Abstract: The proceedings contain 54 papers. The topics discussed include: effect of surface treatment by sandblasting on the quality and electrochemical corrosion properties of a C-1020 carbon steel used by an Algerian oil company; generalized active disturbance rejection control for the boiler-turbine unit using multi-objective optimization and extended state observer; data-driven state monitoring of air preheater using density peaks clustering and evidential K-nearest neighbor classifier; antidiabetic activity of extracts of pistachia khinjuk on alloxan monohydrate induced diabetic mice; estimation of the probability of karst cavities collapse under technogenic cyclic loads below the fatigue limit; and frequency and power estimation of sinusoids using eigen-approach.

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