

## 1. 11th International Conference on Information and Electronics Engineering, ICIEE 2022

**Accession number:** 20223012391474

**Source title:** Journal of Physics: Conference Series

**Abbreviated source title:** J. Phys. Conf. Ser.

**Volume:** 2261

**Part number:** 1 of 1

**Issue:** 1

**Issue date:** 2022

**Publication year:** 2022

**Language:** English

**ISSN:** 17426588

**E-ISSN:** 17426596

**Document type:** Conference proceeding (CP)

**Conference name:** 2022 11th International Conference on Information and Electronics Engineering, ICIEE 2022

**Conference date:** February 19, 2022 - February 21, 2022

**Conference location:** Virtual, Online

**Conference code:** 180560

**Sponsor:** Jeju National University

**Publisher:** Institute of Physics

**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.

**Abstract type:** (Edited Abstract)

**Page count:** 212

**Database:** Compendex

**Data Provider:** Engineering Village

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