

Alternative Energy and Combustion

- AEC000A An Innovative Porous Medium Burner: A Disruptive Technology for Combustion in the 21st Century
- AEC000B Waste to Fuel : The use of diesel from municipal waste plastic in BMTA buses
- AEC000C Fuel Upgrading to Cleaner and High Value Fuels
- AEC0001 Parametric optimization of application of 2 Ethyle Hexyl-Nitrate on partial substitution of ethanol in diesel for fuel economy and ...
- AEC0002 Production of Charcoal Briquettes from Biomass for Community Use
- AEC0003 Study on the Micro Direct Ethanol Fuel Cell (Micro-DEFC) Performance
- AEC0004 Numerical modeling of down draft gasification process using specified temperature profile.
- AEC0005 Research of Interaction between Technological and Material Parameters during Densification of Sunflower Hulls
- AEC0006 Effect of Fuel Injection Ratio on Partially Premixed Combustion of Ethanol Blends
- AEC0007 Effect of Temperature and Steam on Hydrogen Production and Producer Gas Quality from MSW Steam Gasification
- AEC0008 THE TURBO-FUEL-CELL 1.0' FAMILY CONCEPT Compact Micro Turbine-Solid Oxide Fuel Cell (SOFC) energy converters in the 100-500 kW ...
- AEC0009 Performance and Emission Analysis of Single Cylinder SI Engine using Bioethanol-gasoline blend produced from Salvinia Molesta
- AEC0010 Ignition Improvement by Injector Arrangement in a Multi-Fuel-Combustor for Micro Gas Turbine
- AEC0011 Phase Behavior and Important Fuel Properties of Diesel-Palm Fatty Acid Distillate-Anhydrous Ethanol Blends
- AEC0012 Microwave Pre-Heating of Asphalt Recycling Process
- AEC0013 Investigation of Methane Combustion Flames diluted by Carbon dioxide on Non-premixed Burner
- AEC0014 A study on comparison of flame speed in combustion the biomass fuels in a fixed-bed
- AEC0015 Upgrading Thai Rice Husk By Hydrothermal Carbonization
- AEC0016 Effect of Bluff Body and Swirl Plate on Pulverized Biomass Combustion Performance
- AEC0017 Bio-diesel Oil(BDF) Synthesis by Using Solid Catalyst based on Ultrasonic Irradiation
- AEC0018 Catalytic hydrothermal liquefaction of sugar cane leaf in an Ethanol -Water Co-Solvent
- AEC0019 Development of the Compaction Machine for the Production of New Shapes of Pressed Biofuels

Automotive Aerospace and Marine Engineering

- AME000A Surveillance by Aerial Gimbal
- AME0001 Experimental investigation of Solid Rocket Motors for Small Sounding Rockets
- AME0002 Design of Power System for KNACKSAT Satellite
- AME0003 Development of a hardware-in-loop attitude control simulator for a CubeSat satellite
- AME0004 Measurement of the NOx emission of light diesel vehicles in real road driving by PEMS
- AME0005 On Verifying Magnetic Dipole Moment of a Magnetic Torquer by Experiments and Simulations

Automotive Aerospace and Marine Engineering (Cont.)

- AME0006 Deterioration Diagnosis of Li-ion battery with AC Impedance Measurement Analysis
- AME0007 Microstructure and Oxidation Kinetics of Diesel Particulate Matters using TGA
- AME0008 Viscous Investigation on a Flapping-Foil Propulsor
- AME0009 Effects of carbon fiber stacking sequence on torsional stiffness per weight ratio of formula student semi-monocoque chassis structure
- AME0010 Vision-based Target Geo-location using a Multirotor Vehicle
- AME0011 The combustion characteristics of diesel engine burned with auxiliary gaseous fuels
- AME0012 Design of Optimum Contra-Rotating Propellers under Slipstream Contraction Condition
- AME0013 An Investigation on the Spray Characteristics of an 800KPa CNG injector
- AME0014 Development of Forward Collision Warning System Using Laser Scanner with Camera to Detect and Estimate Object Headway Distance
- AME0015 Solar Powered Vehicle Ventilation System
- AME0016 Investigation of Horizontal-axis Wind Turbine Wake Phenomena

Applied Mechanics, Materials and Manufacturing

- AMM0001 Development of Solid State Bonding Technology for the Aluminum Alloy in Atmosphere by Using High Frequency Induction Heating ...
- AMM0002 Application of grey-fuzzy approach in parametric optimization of EDM process in machining of MDN 300 steel
- AMM0003 Fatigue Behavior of Resistance Spot Welded High Strength Steel Sheets with Different Nugget Sizes
- AMM0005 Development and Comparison of Processing Maps of Mg-3Sn-1Ca Alloy from Data Obtained in Tension versus Compression
- AMM0006 Compressive behavior of Sulcata Tortoise's carapace at high rate of deformation
- AMM0007 Nanoindentation Tests of Sulcata Tortoise's Carapace
- AMM0008 Evaluation of Tensile Strength and Consideration of the Rope Structure of Net for Super-Pressure Balloon.
- AMM0009 Characteristics of Acoustic Emission from Corrosion in Anticorrosive Coated Steel
- AMM0010 Development of the Novel Non-contact AE Sensor Using Air-coupled Ultrasonic Transducer for Plates and Cylinders
- AMM0011 Development of the Evaluation Method for the Surface Condition of Spur Gears Using AE Method
- AMM0012 The Method for Detecting Damages of Wire Cables using Guided Waves
- AMM0013 Development of feedback-speed-control system of fixed-abrasive tool for mat-surface fabrication
- AMM0014 Study of Heating and Cooling Temperature of Injection Molding to Effect on Gloss of Plastic Injection Parts
- AMM0015 Dry sliding wear behavior of Fe-Cr-Mo-C steel by nickel addition
- AMM0016 Use of FDM Rapid Prototyping Technology in the Production of Components and their Strength Properties
- AMM0017 Study on Tool Wear Characteristics of Precision Cutting in The Ductile Iron FCD600
- AMM0018 Examination of Drilling for Small-diameter Holes in Aluminum Alloys

Applied Mechanics, Materials and Manufacturing (Cont.)

- AMM0019 Study on Ultra-Precision Cutting of Al-Mg Alloys in Multi-Facet Diamond Tools
- AMM0020 Material Selection and Assembly Method of Battery Pack for Compact Electric Vehicle
- AMM0021 Changes in the Hardness and Microstructures of Severely Deformed $\hat{\Gamma}^2$ -Titanium Alloys
- AMM0022 Characterization of Hemp Fiber with Alkaline Surface Treatment for Polymer Matrix Composite Applications
- AMM0023 Experimental Investigations of Density-Induced Segregation in Binary Granular Mixtures under Vertical Vibrations
- AMM0024 A Comparison of Mechanical Properties Between Plasma Arc Welding (PAW) and Four Popular Type of Welding Process (SMAW GMAW ...
- AMM0025 Surface Roughness Determination and Comparison of Parts Printed Using Different Additive Manufacturing Techniques
- AMM0026 Compressive Deformation Behavior of Meso Pillar Fabricated from Magnesium Alloy AZ 80

Biomechanics and Bioengineering

- BME0001 The Evaluation of Labral Repair Affect Hip Joint by Finite Element Analysis
- BME0002 Numerical Modeling of the Influence of Stromal Cells on Tumor Growth and Angiogenesis
- BME0003 Numerical Simulation of the Hair Formation - Modeling of Hair Cycle -
- BME0004 Particle Simulation on the Skin Formation -Melanin Transportation and Freckles Formation-
- BME0005 The Development of Lab-on-a-chip Fabricated from Two Different Molds
- BME0006 Kinematic analysis and trajectory of a dog-like robot
- BME0007 Performance study of knee supports by electromyography (EMG) testing
- BME0008 Mass Diffusion Coefficient Measurement for Vitreous Humor Using FEM and MRI
- BME0009 The Strain Distribution on Varus Knee Corrected by Close Wedge High Tibial Osteotomy Supplement Distal Femoral Osteotomy
- BME0010 Improved Design of a Cone-shaped Rotating Disk for Shear Force Loading in a Cell Culture Plate
- BME0011 A Potential approach to prepare virtual iris and sclera for custom-made ocular prosthesis using UV-printer

Computation and Simulation Techniques

- CST000A Optimum Allocation of Heating Surfaces in Sugar Juice Evaporation System
- CST000B Numerical Heat Transfer Analysis in Heat Exchangers with Vortex Generators
- CST0001 Analysis of Thermo-Mechanical Stress on Welding Electrode by Using Finite Element Method
- CST0002 Comparison of Two Methods to Determine Fan Performance Curves Using Computational Fluid Dynamics
- CST0003 Comparison of Thermal Degradation Area on a Small Automotive Lamp by using Ray Tracing and Monte Carlo Radiation Simulation
- CST0004 Numerical investigation of saw-toothed and sine-curved tailing edge shape of NACA0012 aerofoil
- CST0005 Influence of saw-toothed and sine-curved tailing edge shape to the asymmetric aerofoil

Computation and Simulation Techniques (Cont.)

- CST0006 Free vibration analysis of functionally graded sandwich beams with elastically end constraints
- CST0007 CFD Model of a Packed-Bed Reactor with Sulfide Oxidizing Bacteria
- CST0008 Modification and Validation of a Rigid Hybrid III 50th Male Dummy Model under Crash Test
- CST0009 CFD modelling of a membrane reactor for H₂ production from NH₃
- CST0010 Large Eddy Simulation of Turbulence Induced Secondary Flows in Stationary and Rotating Straight Square Ducts
- CST0011 Prediction of Thermal Characteristics of Turbulent Spot using Large Eddy Simulation
- CST0012 A Rotary Drum Dryer for Palm Sterilization: Preliminary Study of Flow and Heat Transfer Using CFD
- CST0013 Numerical investigation into segregation of agricultural seeds during filling and discharge flow in silos
- CST0014 The Development of Rotary Drum Dryer for Palm Fruit Sterilization
- CST0015 Performance and Accuracy Investigation of the Closed Form Quadrilateral Element for Heat Conduction Problem
- CST0016 The Evolution of Homogeneous Isotropic Turbulence in Background Rotation
- CST0017 The Wavelet-based Artificial Neural Network for State of Charge Estimation in Lithium Ion Battery
- CST0018 Prediction and Validation of Underwater Shock Wave Peak Pressure Generated by Explosion and Electrical Discharge Methods
- CST0019 Investigation on Performance of Two-Stage Ejector in the Steam Ejector Refrigeration by CFD Simulation
- CST0020 Parametric System Identification of Catamaran for Improving Controller Design
- CST0021 Innovative Engineering Systems Design using Adaptive Multi-Fidelity Concepts
- CST0022 Multi-Body Dynamics Simulation of Tension on Chain Link Plate under Basic Conveyor Chain System for Rubber Gloves Industry
- CST0023 Experimental and Numerical Investigations of Heat Transfer and Thermal Efficiency of an Infrared Gas Stove
- CST0024 Hot air impingement on a flat plate using Large Eddy Simulation (LES) technique
- CST0025 CFD modeling of wall heat transfer inside a combustion chamber using ANSYS-Fluent
- CST0026 Analysis of Temperature Profile and Electric Field in Natural Rubber Glove due to Microwave Heating : Effects of Waveguide Position

Dynamic Systems, Robotics and Controls

- DRC000A Minimally Invasive Surgical Training System with Force Feedback
- DRC0001 Finite-time stabilization of chaotic gyros based on a homogeneous supertwisting-like algorithm
- DRC0002 An Analytical Comparison of Optimal Output Transition and Polynomial Trajectories
- DRC0003 Development of a Standing Up Mechanism during Falling Down for Small Size Home Robots
- DRC0004 Two Models for Identification and Predicting Behavior of An Induction Motor System
- DRC0005 System Identification using Nuclear Norm & Tabu Search Optimization
- DRC0006 A dynamic neural network based implementation of an MPC algorithm applied in the control system of an electromechanical plant

Dynamic Systems, Robotics and Controls (Cont.)

- DRC0007 Spherical Beamforming for Spherical Array with Impedance Surface
- DRC0008 Software-in-the-Loop Simulation of a Quad-Copter Portion For Hybrid Aircraft Control
- DRC0009 Railway Bogie Vibration Analysis by Mathematical Simulation Model and a Scaled Four-Wheel Railway Bogie Set
- DRC0010 Adjustable Magnetic Force System for Climbing Robot
- DRC0011 Design and Development of Grasping Behavior Control Strategy for EMG-Controlled Robotic Hand
- DRC0012 Enhanced control of a flexure-jointed micromanipulation system using a vision-based servoing approach
- DRC0013 Backstepping Boundary Control: An Application to Vibration Suppression of Flexible Beam
- DRC0014 Study on design of light-weight super-abrasive wheel
- DRC0015 Interface for Electric Wheelchair with Tension Athetosis Type Cerebral Palsy
- DRC0016 Study of 3D-printed robot with mobility
- DRC0017 Development Master Arm of 2-DOF Planar Parallel Manipulator for In Vitro Fertilizations
- DRC0018 Vibration Analysis of Baby Carriage Running on a Road Having Grooves at Regular Intervals
- DRC0019 Lane Detection using Randomized Hough Transform
- DRC0020 An Autonomous Assistive Robot for Upper Limb Rehabilitation
- DRC0021 Gesture-based Interface of Robot Arm "Udero" for Upper Limb Dysfunction
- DRC0022 Multiple Products Management System with Sensors Arrays in Automated Storage and Retrieval Systems
- DRC0023 Guidance system for Mobile Robot
- DRC0024 PID Control for One Dimensional Magnetic Levitation
- DRC0025 Kinematics Design of Robotic Arm Controller
- DRC0026 A study on parameter optimization for passive vibration damping system by giant magnetostrictive material
- DRC0027 Study on controller design of a flexible link manipulator using wave based control method
- DRC0028 Localized damping identification using relative phase of nearfield acoustics
- DRC0029 Speech Controlled RoboQuad

Engineering Education

- EDU0001 Multicultural Design Education
- EDU0002 A study on engineering design education by collaborating art students and science students
- EDU0003 Transferring Experience Labs for Production Engineering Students to the Indian University Environment
- EDU0004 Mind Maps Learning for Advanced Engineering Study: Case Study in System Dynamics
- EDU0005 Comparing the Engineering Program Feeders from SiF and Convention Models

Energy Technology and Management

- ETM000A Biomass gasification research for Thai ceramic industry
- ETM0001 Performance Characteristics of the Savonius Turbine
- ETM0002 A Parametric Simulation of Solar Chimney Power Plant
- ETM0003 Energy Consumption Analysis for Electric Campus Tram design based on Real University Driving Cycle Pattern in Thailand
- ETM0004 A Novel Direct-Fired Porous-Medium Boiler
- ETM0005 Efficiency Improvement of a Concentrated Solar Receiver for Water Heating System Using Porous Medium
- ETM0006 Optimum Building Performance Scores When Applying Different ECM Sorting Schemes
- ETM0007 Electric Motorcycle Charging Station Powered by Solar Energy
- ETM0008 Controlling of Aggregate Split-Type Air-Conditioners Under the Thermal Comfort Conditions for Energy Management
- ETM0009 Experimental Study on the Drying of Natural Latex Medical Gloves
- ETM0010 Investigations of Faulty Interaction Effect to Refrigeration System Operations
- ETM0011 Possibility Study of Gasifier with Axial Circulating Flue Gas for Reducing Tar
- ETM0012 Study on Light and Thermal Energy of Illumination Device for Plant Factory Design

Industrial Entrepreneurship

- IEI0001 Improvement for Enhancing Effectiveness of Universal Power System (UPS) Continuous Testing Process

Thermal System and Fluid Mechanics

- TSF000A Gas-Liquid Two-Phase Flows in Micro and Mini Channels
- TSF0001 The Effect of Teardrop Protrusion-to-protrusion Spacing on Heat Transfer Characteristics on the Internal Surface of Wind Tunnel
- TSF0002 Flows Developing around a Finite Rotating Disk Enclosed by a Cylindrical Casing
- TSF0003 Design and development of a demonstration unit for the magnetic refrigeration system
- TSF0004 Adhesive Effect of Polymer Solutions in Filament Stretching Flow
- TSF0005 Multi-Flow Modes between Co-Rotating Disks in Casing by Numerical Analysis and Experiment
- TSF0006 Validation of CFD Simulation of Recoilless EOD Water Cannon by Firing Experiments with High Speed Camera
- TSF0007 Analysis on thermal condition for a person sitting near a glass window
- TSF0008 Empirical modeling of liquid film thickness in vertical annular gas-liquid two-phase flow
- TSF0009 Heat Transfer Enhancement underneath the Inline Merging Turbulent Spots
- TSF0010 On Characteristics of Jet from Two-Dimensional Nozzle with a Lip
- TSF0011 Thermal performance improvement in a heat exchanger tube using punched delta-winglet vortex generators

Thermal System and Fluid Mechanics (Cont.)

- TSF0012 Flow and heat transfer around the flat plate installed in a pulsating duct flow with intermittent flow rate fluctuation
- TSF0013 Fundamental Study on Flow-Deflector Performance for Diffuser
- TSF0014 Effect of Seawater Flow Rate and Evaporation Temperature on Performance of Sherbet Type Ice Making Device
- TSF0015 Performance Characteristics of Hybrid Cooling System Based on Cooling Pad and Evaporator
- TSF0016 Influence of Superheated Steam Flow Rate on Improved Degreasing of Oily Metal Waste
- TSF0017 Calcium granules drying using air flow through technic
- TSF0018 Effects of mesh type on a non-premixed model in a flameless combustion simulation
- TSF0019 Study on a Stirling Cycle Machine as a Household Refrigerator - The technical points and prospects for practical use
- TSF0020 Heat Transfer Characteristics of a Cooling Jacket with Double Spiral Paths for Ball Screws
- TSF0021 The Study of Aerodynamic Transition Phenomenon of a Finite Wing at Low Reynolds number
- TSF0022 Optical Diagnostics for Fluid Mechanics Research from Planar (2D3C PIV) to Volumetric (Tomo-PIV) Measurements
- TSF0023 Dynamic Behavior of Vortices Rolled up from a Heaving Elastic Airfoil by a FSI simulation
- TSF0024 Heat Transfer Enhancement of Flow Insulator by Combined Stainless Steel Fibrous and Wire Net Porous Materials
- TSF0025 Numerical Analysis of Rectangular Two Phase Natural Circulation Loop