Event Schedule

Sun, Dec 03, 2017

4:00pm

**Registration**

- 4:00pm - 7:00pm, Dec 3
- Bogey's Teras, Hyatt Hotel

5:00pm

**Welcome Party**

- 5:00pm - 7:00pm, Dec 3
- Bogey's Teras, Hyatt Hotel

Mon, Dec 04, 2017

7:00am

**Fellow Meeting**

- 7:00am - 9:00am, Dec 4
- Arjuna Room, Hyatt Hotel

9:00am

**Opening Ceremony**

- 9:00am - 10:00am, Dec 4
- Ballroom

10:00am

**Coffee Break 1**

- 10:00am - 10:20am, Dec 4

**Keynote Speech**

- 10:20am - 12:00pm, Dec 4
- Ballroom

Moderator: Prof. Abdul Hakim Halim

Speaker:
D.N.P. (Pra) Murthy  
Professor, University of Queensland, Australia

Alexandre Dolgui  
Professor, Head of Department, IMT Atlantique

12:00pm

Lunch
12:00pm - 1:20pm, Dec 4
Kemangi Bistro, Hyatt Hotel

1:00pm

PPC 1
1:20pm - 3:00pm, Dec 4
Bromo 1

Session chair: Takayuki Kataoka

5 Subsessions

- **A Comprehensive Analysis Of An Operator Assignment Model On Reconfigurable Manufacturing Cells**
  1:20pm - 1:40pm, Dec 4
  Bromo 1

- **A Batch Scheduling And Operator Single Assignment Model For Flow Shops To Minimise Actual Flow Time**
  1:40pm - 2:00pm, Dec 4
  Bromo 1

- **Hybrid Assembly Differentiation Flow Shop With Batch Scheduling In The First Stage To Minimize Total Actual Flow Time**
  2:00pm - 2:20pm, Dec 4
  Bromo 1

- **Optimal Multi-Criterion Contracting Framework For System-Support Service Under Risk-Transfer Effect**
  2:20pm - 2:40pm, Dec 4
  Bromo 1

- **Cellular Bucket Brigades With Worker Collaboration On U-Lines With Discrete Workstations**
  2:40pm - 3:00pm, Dec 4
5 Subsessions

- Design Production Schedule And Simulation Of D Minus 1 Production Scenario Using Heaviside Function And Classical Control Theory: A Case Study Of Hospital Bed Production
  - 1:20pm - 1:40pm, Dec 4
  - Bromo 2

- Non-Permutation Flowshop Scheduling With Dual Resources
  - 1:40pm - 2:00pm, Dec 4
  - Bromo 2

- Assemble To Order (Ato) Scheduling Problem In Backend Of Precision Machine Manufacturing
  - 2:00pm - 2:20pm, Dec 4
  - Bromo 2

- Iterative Algorithms For Loading And Scheduling For Flexible Manufacturing Systems With Controllable Processing Times
  - 2:20pm - 2:40pm, Dec 4
  - Bromo 2

- An Inventory Decision Model Of Two Products With Vector Autoregressive Demand
  - 2:40pm - 3:00pm, Dec 4
  - Bromo 2

5 Subsessions

- A Statistical Model For Analyzing Fuel Efficiency Using Vessel Operation Data
  - 1:20pm - 1:40pm, Dec 4
  - Bromo 3

- Applying An Optimization Model To Bus Scheduling Problems In Ho Chi Minh City, Vietnam.
  - 1:40pm - 2:00pm, Dec 4
Disease Prediction Considering Time Series Data Of Health Examination
2:00pm - 2:20pm, Dec 4
Bromo 3

Multi-Period Optimization Model For Retirement Planning With Private Pension And Life Insurance
2:20pm - 2:40pm, Dec 4
Bromo 3

Hand Posture Classification Using Depth Image Data With Convolutional Neural Networks
2:40pm - 3:00pm, Dec 4
Bromo 3

Logistics & SCM 1
1:20pm - 3:00pm, Dec 4
Merapi 1

Human Aspect On Chain Of Custody (Coc) System Performance
1:20pm - 1:40pm, Dec 4
Merapi 1

Retailer Supply Networks: An Analysis And Research Perspective
1:40pm - 2:00pm, Dec 4
Merapi 1

Determine Optimal Nutritional Medicine Convenient Store Location With Consideration Of Competitions And Consumer Walking Distance Using Set Covering
2:00pm - 2:20pm, Dec 4
Merapi 1

Design Of Closed-Loop Supply Chain Model With Various Transportation Methods
2:20pm - 2:40pm, Dec 4
Merapi 1

Vendor-Buyer Integrated Inventory Model For Deteriorating Items With Imperfect Quality Considering Carbon Emission
2:40pm - 3:00pm, Dec 4
Merapi 1

Logistics & SCM 2
1:20pm - 3:00pm, Dec 4
Merapi 2
5 Subsessions

- **Development Of Modified Particle Swarm Optimization Method For Multi-Objective Logistics Problem Combined With Inventory Control In Multi-Periods Under Unsteady Demand**
  - 1:20pm - 1:40pm, Dec 4
  - Merapi 2

- **A Responsive-Pricing Retailer Sourcing From Competing Suppliers Facing Disruptions**
  - 1:40pm - 2:00pm, Dec 4
  - Merapi 2

- **Location Routing Problem With Transportation Mode Options**
  - 2:00pm - 2:20pm, Dec 4
  - Merapi 2

- **Optimal Operation Of Supply Chain With A Hybrid Production Mode Considering Customers Utility For Product Prices**
  - 2:20pm - 2:40pm, Dec 4
  - Merapi 2

- **Efficient Stowage Plan Of Loading And Unloading**
  - 2:40pm - 3:00pm, Dec 4
  - Merapi 2

Quality 1
- 1:20pm - 3:00pm, Dec 4
  - Merapi 3

Session chair: Masahiro Shibuya

5 Subsessions

- **Measuring Sustainable Service Quality (Susserv) Of Malaysian Water And Sewerage Companies**
  - 1:20pm - 1:40pm, Dec 4
  - Merapi 3

- **Evaluating Government Policies On Technical Barrier To Trade: A Case Study In Indonesia**
  - 1:40pm - 2:00pm, Dec 4
  - Merapi 3

- **Application Of Equipment Automatic Time Study For Uph Improvement Of Orthodyne 7200 And 7200+ Aluminum Wire Bonder**
  - 2:00pm - 2:20pm, Dec 4
  - Merapi 3
Automated Visual Inspection Of Multicrystalline Solar Wafers Using Wavelet Discrimination Measure
- 2:20pm - 2:40pm, Dec 4
  - Merapi 3

Proposition Of A Continuous Improvement Activity Support System Using Iot For Small-To-Medium-Sized Enterprises
- 2:40pm - 3:00pm, Dec 4
  - Merapi 3

IFPR Meeting
- 1:20pm - 2:40pm, Dec 4
  - Arjuna Room, Hyatt Hotel

Coffee Break 2
- 3:00pm - 3:20pm, Dec 4

OR & Optimization 1
- 3:20pm - 4:40pm, Dec 4
  - Bromo 1
  
  Session chair: Shinya Mizuno

  4 Subsessions

  - Effect Of Simulation Cooperation On Optimal Placement Using Queuing Network
    - 3:20pm - 3:40pm, Dec 4
      - Bromo 1

  - Optimisation Of Processing Conditions For Multi-Product Batch Production Lines With Series-Parallel Operations Under Uncertainty On Demands For Finished Products
    - 3:40pm - 4:00pm, Dec 4
      - Bromo 1

  - Developing An Order Batching Procedure In Bucket Brigade Order Picking System With On-Line Order Arrivals
    - 4:00pm - 4:20pm, Dec 4
      - Bromo 1

  - Applying Data Clustering On Determining The Number Of Hidden States Of Hidden Markov Model
    - 4:20pm - 4:40pm, Dec 4
      - Bromo 1
OR & Optimization 2
3:20pm - 4:40pm, Dec 4
Bromo 2

Session chair: Chompoonoot Kasemset

4 Subsessions

- **Ant Colony Optimization With Function Of Autonomously Switching Rules Of Route Selection**
  - 3:20pm - 3:40pm, Dec 4
  - Bromo 2

- **A New Selection Criterion Considering Both Diversity And Accuracy In Ensemble Pruning**
  - 3:40pm - 4:00pm, Dec 4
  - Bromo 2

- **Estimating Forward Looking Return Distribution With The Generalized Recovery Theorem**
  - 4:00pm - 4:20pm, Dec 4
  - Bromo 2

- **Formulation Of Outbound-Vehicle In Traffic System Using Maximum Flow Technique**
  - 4:20pm - 4:40pm, Dec 4
  - Bromo 2

OR & Optimization 3 & Product Design 1
3:20pm - 4:40pm, Dec 4
Bromo 3

Session chair: Huynh Trung Luong

3 Subsessions

- **Development Of A Lost Sale Inventory Policy For The Growth Stage Of Short Life Cycle Non-Deteriorating Products**
  - 3:20pm - 3:40pm, Dec 4
  - Bromo 3

- **Collaborative Planning Between Supply Chain Members Considering Freezing Mps**
  - 3:40pm - 4:00pm, Dec 4
  - Bromo 3

- **The Development Of Sleep Support System For Children With Developmental Disorders**
  - 4:20pm - 4:40pm, Dec 4
  - Bromo 3
### Maintenance 1
- "A Framework For Constructing Control Chart For Unsupervised Data-Driven Condition Monitoring"
  - Time: 3:20pm - 3:40pm, Dec 4
  - Venue: Merapi 1
- "Replacement First, Last And Overtime With Excess And Shortage Costs"
  - Time: 3:40pm - 4:00pm, Dec 4
  - Venue: Merapi 1
- "Preventive Maintenance Considering OEE Threshold For Lease Equipment"
  - Time: 4:00pm - 4:20pm, Dec 4
  - Venue: Merapi 1
- "Optimal Preventive Maintenance Strategy For Leased Equipment Under Limited Number Of Maintenance Alternatives"
  - Time: 4:20pm - 4:40pm, Dec 4
  - Venue: Merapi 1

### Modelling 1
- "Modeling And Simulation Of Baggage Handling System In A Large Airport."
  - Time: 3:20pm - 3:40pm, Dec 4
  - Venue: Merapi 2
- "Generating The Dynamic Life Tables Modified By Subjective Indices For Retirement Planning"
  - Time: 3:40pm - 4:00pm, Dec 4
  - Venue: Merapi 2
- "A Mathematical Model For Flight To Carousel-Based Unloading Zone Assignment Problem"
  - Time: 4:00pm - 4:20pm, Dec 4
  - Venue: Merapi 2
- "Simulation Application In Healthcare Services: A Case Study Of The Outpatient Clinic In The Hospital"
4:20pm - 4:40pm, Dec 4
Merapi 2

**Sustainability 1**
3:20pm - 4:40pm, Dec 4
Merapi 3
Session chair: Kuo-Ping Lin

4 Subsessions

- **A Regional Initiative Among Third Sector In Japan**
  3:20pm - 3:40pm, Dec 4
  Merapi 3

- **Development Of Energy Saving Fountain Device Based On Archimedean Pump**
  3:40pm - 4:00pm, Dec 4
  Merapi 3

- **Basic Properties Of Small Spiral Pump And Its Application As Fountain Device**
  4:00pm - 4:20pm, Dec 4
  Merapi 3

- **Applying Least-Squares Support Vector Regression For Electricity Output Forecasting**
  4:20pm - 4:40pm, Dec 4
  Merapi 3

4:00pm

**APIEMS Board Meeting**
4:00pm - 6:00pm, Dec 4
Bale Raos Meeting Room

6:00pm

**Dinner**
6:00pm - 8:00pm, Dec 4
Prambanan Temple

**APIEMS Board Dinner**
6:00pm - 8:00pm, Dec 4
Bale Raos Restaurant

Tue, Dec 05, 2017
8:00am

**Product Design 1**
- Application Of Experimental Design Method To Design Antenna
  - 8:00am - 8:20am, Dec 5
  - Bromo 1

**The Ideation Effectiveness Of A Triz-Based Feature Extraction Design Approach**
- 8:20am - 8:40am, Dec 5
  - Bromo 1

**Design And Development Of Office Sports Seat**
- 8:40am - 9:00am, Dec 5
  - Bromo 1

**Development Of The Rehabilitation Robot Based On The Estimate Of The Movement And The Intention Of The User**
- 9:00am - 9:20am, Dec 5
  - Bromo 1

**A Low Cost 3d Object Scanning System**
- 9:20am - 9:40am, Dec 5
  - Bromo 1

**Design Framework Of Reverse Engineering (Re) And Rapid Prototyping (Rp) For Development Of Broken Or Damaged Parts**
- 9:40am - 10:00am, Dec 5
  - Bromo 1

**Logistics & SCM 3**
- Development Of A Simulation Model For The Operations Of Automated Container Transporter (Acts) Between Container Ports To Support Intermodal Transportation
  - 8:00am - 8:20am, Dec 5
  - Bromo 2

**A Study Of Napier Pakchong-1’s Supply Chain Management In Northeast Thailand**
Multi-Type Electric Vehicle Relocation Problem With Consideration Of Required Battery Charging Time

8:40am - 9:00am, Dec 5
Bromo 2

Study On Collaborative Bargaining Solution For Contract Problem In Tandem Supply Chain Consisting Of Three Members

9:00am - 9:20am, Dec 5
Bromo 2

Designing Of The Supply Chain Of Purple Sweet Potatoes In Vietnam

9:20am - 9:40am, Dec 5
Bromo 2

On A Vendor-Buyer Supply Chain Model For Cold Items

9:40am - 10:00am, Dec 5
Bromo 2

New Lease Contracts For New And Remanufactured Products

8:00am - 8:20am, Dec 5
Bromo 3

Application Of Object-Oriented Petri Net In Developing An Industry 4.0 Cyber Physical Production System

8:20am - 8:40am, Dec 5
Bromo 3

Product Lease Contractual Agreement: An Exploratory Study

8:40am - 9:00am, Dec 5
Bromo 3

Extended Maintenance Overtime Policies For Database System With Notification Of Maintenance

9:00am - 9:20am, Dec 5
Bromo 3

Cumulative Backup Policies for Database Systems with Oblivious Failure

9:20am - 9:40am, Dec 5
Bromo 3

9:40am - 10:00am, Dec 5
Bromo 3

Information System 1

8:00am - 10:00am, Dec 5
Merapi 1

Session chair: Kiyoshi Nagata

6 Subsessions

Hybrid Indoor Positioning Method Using Both BLE And PDR

8:00am - 8:20am, Dec 5
Merapi 1

Relational Analysis Model Of Weather Conditions And Sales Patterns Based On Nonnegative Matrix Factorization

8:20am - 8:40am, Dec 5
Merapi 1

A Model For Relational Analysis Of Recommendation Articles And Reactions On Gourmet Service Site

8:40am - 9:00am, Dec 5
Merapi 1

Disease Trend Clustering Based On The Big Data Of National Health Insurance Service

9:00am - 9:20am, Dec 5
Merapi 1

A Decision Support System For Cloud Computing Adoption

9:20am - 9:40am, Dec 5
Merapi 1

Cloud Based Manufacturing Systems- Issues, Challenges And Applications

9:40am - 10:00am, Dec 5
Merapi 1

Optimization 2

8:00am - 10:00am, Dec 5
Merapi 2

Session chair: Jun Yamaguchi

6 Subsessions

Improvement Of Statistical Mechanics Model For Markovian Queueing System With
Balking
8:00am - 8:20am, Dec 5
Merapi 2

Traffic Line Analysis At Grooming Shops For Pets
8:20am - 8:40am, Dec 5
Merapi 2

An Algorithm For Principal Points Considering External Criterion For Multivariate Binary Distributions
8:40am - 9:00am, Dec 5
Merapi 2

Active Control Of Base Pressure And Wall Pressure Flow Field At Supersonic Mach Numbers
9:00am - 9:20am, Dec 5
Merapi 2

An Optimized Time Series Model Of Bioelectric Potential Dataset
9:20am - 9:40am, Dec 5
Merapi 2

Modeling Cross-Docking Operation Using Probabilistic Discrete Event Simulation
9:40am - 10:00am, Dec 5
Merapi 2

Eng Economy 1
8:00am - 10:00am, Dec 5
Merapi 3

Session chair: Jae Wook Lee

6 Subsessions

Dcf Approach To Multi-Period Capital Budgeting Decision Making Under Contingent Projects For Electricity Capacity Expansion
8:00am - 8:20am, Dec 5
Merapi 3

Impact Of Technological Knowledge Diversification Within A Group Of Inventors On Patent Value
8:20am - 8:40am, Dec 5
Merapi 3

Analysis Of The Correlation Between 'Chaebol' Affiliates' Returns In The Financial Market Of South Korea
8:40am - 9:00am, Dec 5
Merapi 3

Penalized Variable Selection And Its Application In Credit Risk Management
9:00am - 9:20am, Dec 5
Merapi 3

- **Asset Allocation Model With Tail Risk Parity**
  - 9:20am - 9:40am, Dec 5
  - Merapi 3

- **Study On Product Quality Design Under The Effects Of Feature Fatigue And Price Fairness Concerns: A Modeling Approach**
  - 9:40am - 10:00am, Dec 5
  - Merapi 3

10:00am

- **Coffee Break 1**
  - 10:00am - 10:20am, Dec 5

Logistics & SCM 4

- 10:20am - 12:00pm, Dec 5
- Bromo 1

Session chair: Masayuki Goto

5 Subsessions

- **Goal Programming Approach For Multiple Objective Fresh Fruits Supply Chain Network Design In Southern Of Vietnam**
  - 10:20am - 10:40am, Dec 5
  - Bromo 1

- **A Variable Neighborhood Descent Algorithm For The Location Of Logistics Facilities With Mobile Resources**
  - 10:40am - 11:00am, Dec 5
  - Bromo 1

- **The Bayesian Prediction Algorithm Using Logistic Regression**
  - 11:00am - 11:20am, Dec 5
  - Bromo 1

- **A Memetic Algorithm For The Multi Level Lot Sizing Problem**
  - 11:20am - 11:40am, Dec 5
  - Bromo 1

- **Post-Disaster Debris Logistics Network Under Collection**
  - 11:40am - 12:00pm, Dec 5
  - Bromo 1
5 Subsessions

- **Bidirectional Option Contract: The Case Of Allowing Retailer To Order Higher Than The Total Of Initial Order Quantity And Option Quantity**
  - 10:20am - 10:40am, Dec 5
  - Bromo 2

- **Optimal Production Quantity Under Bidirectional Option Contract**
  - 10:40am - 11:00am, Dec 5
  - Bromo 2

- **A Method To Determine Manufacturing Allocation In A Global Supply Chain**
  - 11:00am - 11:20am, Dec 5
  - Bromo 2

- **Economic Production Quantity Model For Multi-Deteriorating Items With Shortage**
  - 11:20am - 11:40am, Dec 5
  - Bromo 2

- **A Reactive Grasp Metaheuristic For The Capacitated Single Allocation P-Hub Median Problem With Multiple Capacity Levels**
  - 11:40am - 12:00pm, Dec 5
  - Bromo 2

**Logistics & SCM 6**

- **10:20am - 12:00pm, Dec 5**
- **Bromo 3**

Session chair: Yosi Agustina

5 Subsessions

- **Lean, Agile And Leagile In Military Inventory Management**
  - 10:20am - 10:40am, Dec 5
  - Bromo 3

- **Design A Supply Chain For Persimmon Agricultural Products**
  - 10:40am - 11:00am, Dec 5
  - Bromo 3

- **Supply Chain Risk Analysis On Oil And Gas Companies**
  - 11:00am - 11:20am, Dec 5
  - Bromo 3

- **A Comparative Study Of Interaction Performance In Head Mounted Display And Stereoscopic Widescreen Display - A Review**
Partial Backorder Model To Determine The Optimal Lot Size With Exchangeable Imperfect Quality Item

Development Of A Video Chat System Enabling Space Sharing And Haptic Communication

Steganalysis Against Stego Image With Different Rates Of Message Bits In Two Least-Significant Bit Planes

Characteristics Of A Word Segmentation Method Based On A State-Transition Model

Using A Data-Analytic Approach To Identify The Key Determinants Of User Satisfaction In Adopting Crm Systems

Information-Based Discretization For Mining Rare Association Rule In Cerebrovascular Disease Dataset

Session chair: Lucia Diawati
● **Organization Development Through Value Chain And Technometric Model**  
  10:20am - 10:40am, Dec 5  
  Merapi 2

● **Learning And Forgetting Model In Identical Parallel Machines With Multiple Product Considering Product Changeover And Set-Up Times Under Demand Uncertainty: A Research Framework**  
  10:40am - 11:00am, Dec 5  
  Merapi 2

● **Empirical Study On Technology Transfer From Japan To Indonesia**  
  11:00am - 11:20am, Dec 5  
  Merapi 2

● **Technology Transfer Model In Business Framework Of Global Production Networks**  
  11:20am - 11:40am, Dec 5  
  Merapi 2

● **Lifting Property Of Tube Type Archimedeian Pump**  
  11:40am - 12:00pm, Dec 5  
  Merapi 2

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Eng Economy 2  
10:20am - 12:00pm, Dec 5  
Merapi 3

Session chair: Patcharaporn Yanpirat

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5 Subsessions

● **Designing Standard Of Belt Alignment Kit As Teaching Aid**  
  10:20am - 10:40am, Dec 5  
  Merapi 3

● **Dynamic Optimal Execution Models With Transient Market Impact And Downside Risk**  
  10:40am - 11:00am, Dec 5  
  Merapi 3

● **Optimizing Sectional Devices Investment In Power Distribution System Of Electricite Du Laos**  
  11:00am - 11:20am, Dec 5  
  Merapi 3

● **Method For Measuring Brand Image Using Reaction Time And Hierarchical Bayesian Model**  
  11:20am - 11:40am, Dec 5  
  Merapi 3

● **Proposal Of A Low Cost Energy Control In A Meeting Room**  
  11:40am - 12:00pm, Dec 5  
  Merapi 3
12:00pm

**Lunch**
- 12:00pm - 1:20pm, Dec 5
- Kemangi Bistro, Hyatt Hotel

1:00pm

**Modelling 2**
- 1:20pm - 3:00pm, Dec 5
- Bromo 1
- Session chair: Mitsuyoshi Horikawa

5 Subsessions

- [Specific Energy Consumption In Plunge-Cut Surface Grinding Of A Ductile Material With A Conventional Abrasive Grinding Wheel](#)
  - 1:20pm - 1:40pm, Dec 5
  - Bromo 1

- [On Modelling Surface Roughness In Plunge-Cut Surface Grinding Of A Ductile Material With A Conventional Abrasive Grinding Wheel](#)
  - 1:40pm - 2:00pm, Dec 5
  - Bromo 1

- [Dynamical Modeling And Predictive Control Simulation Of Simultaneous Traffic Light Scheduling Problems](#)
  - 2:00pm - 2:20pm, Dec 5
  - Bromo 1

- [Smart Factory In Industry 4.0](#)
  - 2:20pm - 2:40pm, Dec 5
  - Bromo 1

- [Hybrid Air Navigation System For Unmanned Aerial Vehicles Using A Ble Beacon](#)
  - 2:40pm - 3:00pm, Dec 5
  - Bromo 1

**Optimization 1**
- 1:20pm - 3:00pm, Dec 5
- Bromo 2
- Session chair: Kin Keung Lai
The Deep Neural Network Based Small Cap Stock Price Forecasting Model

Tabu Search For Major League Baseball Scheduling

Optimal Scheduling Of Airport’s Operations A Case Study In Tan Son Nhat International Airport

A Particle Swarm Optimization-Based Clustering For Non-Metric Data

Comparison Of Hyper-Parameter Optimization Method In Supervised Learning

Using Model Selection In Mixture Polynomials To Construct The Nonlinear Profile Monitoring

The Study Of The Average Run Length (Arl) For Bivariate Normal Process Under Varied Variances

Remanufacturing Quality Control Strategies: A Literature Review And Proposed Conceptual Framework

Optimal Process Parameter Selection And Quality Improvement Under Price And Quality Dependent Demand
Data Mining For Cell Process Monitoring In Tft-Lcd Manufacturing With An Empirical Study
2:40pm - 3:00pm, Dec 5
Bromo 3

Information System 3
1:20pm - 3:00pm, Dec 5
Merapi 1

Session chair: Ling-Lang Tang

5 Subsessions

A Study On Extraction Of Important Items Focused On Customer Growth Based On Network Analysis
1:20pm - 1:40pm, Dec 5
Merapi 1

The Development Of Behavioral Understanding Support System For Children With Developmental Disorders Using Rfid And Gps
1:40pm - 2:00pm, Dec 5
Merapi 1

Activity Recognition Using Wearable Accelerometers
2:00pm - 2:20pm, Dec 5
Merapi 1

The Collaborative Knowledge-Management Ict System For People With Developmental Disorders
2:20pm - 2:40pm, Dec 5
Merapi 1

Exploration Of Consumer Online Buying Behavior On Online Shopping Platforms By Extended Tam Theory
2:40pm - 3:00pm, Dec 5
Merapi 1

Logistics, SCM & Service System
1:20pm - 3:00pm, Dec 5
Merapi 2

Session chair: Etsuko Kusukawa

5 Subsessions

Optimal Sales Strategies For Dual Channel Under Cooperation And Competition Considering Customers' Purchasing Preference And Delivery Lead Time Of Product
1:20pm - 1:40pm, Dec 5
Optimal Operation And Supply Chain Coordination In A Closed-Loop Supply Chain With Loss Averse Attitude
1:40pm - 2:00pm, Dec 5

Logistics Network Design: A Case Of Agricultural Products In Mekong Delta
2:00pm - 2:20pm, Dec 5

Design Of Light-Weighted Intelligent Walker
2:20pm - 2:40pm, Dec 5

The Prevalence Of Musculoskeletal Disorders' Symptoms And Work Posture Improvement Efforts Using Participatory Ergonomics Approach On Health Care
2:40pm - 3:00pm, Dec 5

Events And Sounds That Hearing Impaired Persons Feel Dangerous.
1:20pm - 1:40pm, Dec 5

Evaluation Of Interactions Techniques And User's Performances In Virtual Environments
1:40pm - 2:00pm, Dec 5

Promoting Imagination, Creativity, And Innovative Thinking Of Design Graduate Students After A Course Training
2:00pm - 2:20pm, Dec 5

A Study On Grip Span Measurement And Handle Profile Construction Of Hand Tools
2:20pm - 2:40pm, Dec 5

Design And Development Of Mobile Luggage Case
2:40pm - 3:00pm, Dec 5
Coffee Break 2
3:00pm - 3:20pm, Dec 5

Maintenance 2 & Optimization 2
3:20pm - 5:20pm, Dec 5
Bromo 1
Session chair: Myung Hwan Yun

6 Subsessions

- **Optimal Group Preventive Maintenance Policy For Multiple Non-Identical Leased Devices With Weibull Lifetime Distributions**
  3:20pm - 3:40pm, Dec 5
  Bromo 1

- **Multivariate Weibull Distribution For Reliability Analysis Considering Common Cause Failures**
  3:40pm - 4:00pm, Dec 5
  Bromo 1

- **Improvement Method of Taguchi Quality Engineering for Loss Function using Reliability Engineering**
  4:00pm - 4:20pm, Dec 5
  Bromo 1

- **A Study On Prediction Model Of Selling Prices Of Second-Hand Fashion Items**
  4:20pm - 4:40pm, Dec 5
  Bromo 1

- **A Noise-Resistant K-Means Algorithm Based On Local Density Ratio**
  4:40pm - 5:00pm, Dec 5
  Bromo 1

- **Solving An Aircraft Parking Scheduling Problem An Analytical And Simulation Approach**
  5:00pm - 5:20pm, Dec 5
  Bromo 1

Quality 2
3:20pm - 5:20pm, Dec 5
Bromo 2
Session chair: Chi-Kuang Chen

5 Subsessions
Process Controlling Through Standardization 3:20pm - 3:40pm, Dec 5
Bromo 2

Data Mining Approach To Selection Of Critical Steps For Semiconductor Wafer Fabrication 3:40pm - 4:00pm, Dec 5
Bromo 2

Variable Stage-Independent Double Sampling Plan With Screening For Acceptance Quality Loss Limit 4:00pm - 4:20pm, Dec 5
Bromo 2

Developing Information System Based On Internet Of Things And Persuasive Technology To Increase Users' Awareness Of Electricity Usage 4:40pm - 5:00pm, Dec 5
Bromo 2

A Six Sigma User Template For The Implementation In Services 5:00pm - 5:20pm, Dec 5
Bromo 2

IE Education 1 3:20pm - 5:20pm, Dec 5
Bromo 3

Session chair: Chien-Chih Wang

6 Subsessions

Development Of Online Materials For Web Designing Lecture On Responsive Web Design 3:20pm - 3:40pm, Dec 5
Bromo 3

Waste Reduction Using Lean Manufacturing Approach To Improve Flow Of Production Line (Case Study At Pt. X) 3:40pm - 4:00pm, Dec 5
Bromo 3

Analysis Of The Relationship Between Student 'S Academic Performance And Practice Performance: A Case Study Of Industrial Engineering And Management In Technology University 4:00pm - 4:20pm, Dec 5
Bromo 3

The Development Of Behavioral Understanding Support System For Children With Developmental Disorders Using Natural Language Processing 4:20pm - 4:40pm, Dec 5
Bromo 3
Inventory Model Design Of Raw Material With Economic Order Quantity –Vendor Management Inventory - Consignment Approach
- 4:40pm - 5:00pm, Dec 5
- Bromo 3

Detection And Classification Of Dots In Braille Book By Image Processing Technique
- 5:00pm - 5:20pm, Dec 5
- Bromo 3

IE Education 2
- 3:20pm - 5:20pm, Dec 5
- Merapi 1

Session chair: Hidetaka Nambo

6 Subsessions

Promotion Of The Human Resources Ecosystem Of Inclusive Society For Engineers
- 3:20pm - 3:40pm, Dec 5
- Merapi 1

Universal Design Mind Cultivation Through Support System Development For Disabilities
- 3:40pm - 4:00pm, Dec 5
- Merapi 1

Educational Support System Of Switching Emotional Gears From Gustatory Organ
- 4:00pm - 4:20pm, Dec 5
- Merapi 1

Development Of Teaching Materials To Generate Behaviour And Cognitive Profiles By Means Of Iot
- 4:20pm - 4:40pm, Dec 5
- Merapi 1

A New Framework Of Karakuri System In Automobile Industry
- 4:40pm - 5:00pm, Dec 5
- Merapi 1

Braille Translation System In Japan -Past And Now-
- 5:00pm - 5:20pm, Dec 5
- Merapi 1

Ergonomics 2
- 3:20pm - 5:20pm, Dec 5
- Merapi 2

Session chair: Woojin Park
6 Subsessions

- **Safety Climate Investigation Of Metal Manufacturing Workers**
  - 3:20pm - 3:40pm, Dec 5
  - Merapi 2

- **A Treadmill Control Design Using User-Defined Gesture Vocabulary**
  - 3:40pm - 4:00pm, Dec 5
  - Merapi 2

- **The Effects Of Acute Exercise And Task Volume On Cognitive Performance During Simulated Night Shift Work**
  - 4:00pm - 4:20pm, Dec 5
  - Merapi 2

- **Supportive Bedroom Design For The Elderly**
  - 4:20pm - 4:40pm, Dec 5
  - Merapi 2

- **A Critical Study On Human Factors Leading To Stresses In Women At A Typical Garment Industry**
  - 4:40pm - 5:00pm, Dec 5
  - Merapi 2

- **Integration Of Sound And Image Data For Detection Of Sleep Apnea Using Convolutional Neural Network**
  - 5:00pm - 5:20pm, Dec 5
  - Merapi 2

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**Sustainability 2**

- 3:20pm - 5:20pm, Dec 5
- Merapi 3

Session chair: Vivek Sunnapwar

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6 Subsessions

- **Green Manufacturing In Industries: A Review**
  - 3:20pm - 3:40pm, Dec 5
  - Merapi 3

- **Basic Property Of Flow Distribution Around Archimedean Pump**
  - 3:40pm - 4:00pm, Dec 5
  - Merapi 3

- **A Conceptual Framework For Manufacturing Organizations To Implement Green Manufacturing**
  - 4:00pm - 4:20pm, Dec 5
  - Merapi 3
● An Empirical Study Of Optimizing Multi-Chiller Operations Via Big Data Analytics For High-Tech Industries
  ① 4:20pm - 4:40pm, Dec 5
  ② Merapi 3

● E-Quality In C2c Online Buy And Sell Websites: Customer Differentiation Using Discriminant Analysis
  ① 4:40pm - 5:00pm, Dec 5
  ② Merapi 3

● Analysis Of Facebook Group Buying Services Quality Using Kano Model
  ① 5:00pm - 5:20pm, Dec 5
  ② Merapi 3

6:00pm

Banquet
  ① 6:00pm - 8:00pm, Dec 5
  ② Poolside, Hyatt Hotel

Wed, Dec 06, 2017

8:00am

Ergonomics 3
  ① 8:00am - 10:00am, Dec 6
  ② Bromo 1

Session chair: Chia-Fen Chi

5 Subsessions

● Effect Of Angles Of Straight Leg Raising In Supine Position On Blood Pressure And Heartbeat Rate.
  ① 8:00am - 8:20am, Dec 6
  ② Bromo 1

● Predicting Exercise Intensity With Number Of Squat Movement
  ① 8:20am - 8:40am, Dec 6
  ② Bromo 1

● Accident Causes For Fatal Occupational Falls In The Construction Industry
  ① 8:40am - 9:00am, Dec 6
  ② Bromo 1

● Physical Ergonomics Of Brand X, Y, And Z E-Bikes: A Comparative Analysis And Product Re-Design
  ① 9:00am - 9:20am, Dec 6
**Bromo 1**

- **Fundamental Study Of Concentration Using Electroencephalography And Electromyography**  
  9:20am - 9:40am, Dec 6  

**Ergonomics 4**

- 8:00am - 10:00am, Dec 6  
  - Bromo 2
  
  Session chair: Takuya Tajima

  5 Subsessions

- **Development Of Sleep Disorder Detection System Using Pressure Distribution Sensor**  
  8:00am - 8:20am, Dec 6  
  - Bromo 2

- **Legibility Comparison Of Left-Right Style And Top-Down Style Of Chinese Characters**  
  8:20am - 8:40am, Dec 6  
  - Bromo 2

- **Proposing An Environment To Relieve The Stresses Experienced By Children With Developmental Disorders**  
  8:40am - 9:00am, Dec 6  
  - Bromo 2

- **An Ergonomic Intervention On Shovel To Reduce Musculoskeletal Disorders Among Construction Workers**  
  9:00am - 9:20am, Dec 6  
  - Bromo 2

- **An Anthropometric And Postural Risk Assessment Of Students In Computer Laboratories Of A State University**  
  9:20am - 9:40am, Dec 6  
  - Bromo 2

**Logistics & SCM 7**

- 8:00am - 10:00am, Dec 6  
  - Bromo 3

  Session chair: Zahari Taha

  5 Subsessions

- **Design And Management Fruit And Vegetable Supply Chain In Mekong Delta Of Vietnam: A Holistic Research Framework**  
  8:00am - 8:20am, Dec 6
Vehicle Routing And Dock Scheduling In A Cross-Docking Platform For Fresh Grocery Distribution Center In Vietnam

Supplier Selection Method Using Analytic Hierarchy Process For A Car Seat Manufacturer In Thailand

Multi Objective Optimization Using Genetic Algorithm Of A Pneumatic Connector

Design Of A Framework For Strategic Supplier Evaluation Decision

Scheduling Outpatients In A Hospital With Multiple Service Points

Design Of Bandung Zoo Visitor Service Improvement

Competitive Advantages Of Hair Salons In Japan For Foreign Residents

Integration Of Lean Service And The Theory Of Constraints To Reduce The Throughput Time: A Testing Laboratory Case In Public Service Of Indonesia

Applications Of Energy Usage Data: A Literature Review

E-Learning For Preventive Machine Maintenance Process Of Toshiba Bmc 80.5 Using Seci Method And Addie
Service System 2

8:00am - 10:00am, Dec 6

Session chair: Titah Yudhistira

5 Subsessions

- Values In Online C2c Marketplace Constructs Identification And Scale Development
  8:00am - 8:20am, Dec 6
  Merapi 2

- Integrating Omni Channel And Artificial Intelligence To Achieve Precision Marketing – A Case Study Of Sharing Economy Platform
  8:20am - 8:40am, Dec 6
  Merapi 2

- Measuring organizational competencies
  8:40am - 9:00am, Dec 6
  Merapi 2

- Development Of A Human Sensor Using Living Plant And Bioelectric Potential
  9:00am - 9:20am, Dec 6
  Merapi 2

- Research On The Self-Awareness Of One's Aptitude For The Job By Means Of The Event-Related Potential (Erp)
  9:20am - 9:40am, Dec 6
  Merapi 2

Special Session 1 (Tourism)

8:00am - 10:20am, Dec 6

Session chair: Takahiro Hayashi

7 Subsessions

- Tendency Of Foreign Visitor In Kaga City
  8:00am - 8:20am, Dec 6
  Merapi 3

- A Tour Recommendation System Based On Text Mining Of Online Personal Reviews
  8:20am - 8:40am, Dec 6
  Merapi 3
Intelligent Image Resizing Of Travel Photos To Proper Aspect Ratio  
8:40am - 9:00am, Dec 6  
Merapi 3

Function Of Tourism Associations In Japan  
9:00am - 9:20am, Dec 6  
Merapi 3

Travelers' Sightseeing Intention  
9:20am - 9:40am, Dec 6  
Merapi 3

A Study On Institutions Of Tourism  
9:40am - 10:00am, Dec 6  
Merapi 3

Towards Online Marketing In Tourism  
10:00am - 10:20am, Dec 6  
Merapi 3

Coffee Break 1  
10:00am - 10:20am, Dec 6

PPC 3  
10:20am - 12:00pm, Dec 6  
Bromo 1

Session chair: TMA Ari Samadhi

5 Subsessions

Determining Number Of Workers For Front Office Using Shift Scheduling Considering Workload  
10:20am - 10:40am, Dec 6  
Bromo 1

A Study On The Seat Setting Of The Production Seat Booking System For The Make-To-Stock Manufacturuing Process -In Case Of The Fixed Lot Size Production-  
10:40am - 11:00am, Dec 6  
Bromo 1

Worker Coordination Policy For Self-Balancing Production Line With Worker And Station Dependent Speed  
11:00am - 11:20am, Dec 6  
Bromo 1

The Research Of Current Signal Analysis For Overall Equipment Effectiveness In
Cyber-Physical System

- Development Of Algorithm Based On Particle Swarm Optimization For Process Design To Promote Levelization And Productivity On Large Scale-Mix Production Line
  - 11:20am - 11:40am, Dec 6
  - Bromo 1

Ergonomics 5

- Sedentary Chair Design
  - 10:20am - 10:40am, Dec 6
  - Bromo 2

  Session chair: Khoirul Muslim

  3 Subsessions

  - Intellectual Capital Factors Using ANP-QFD for Limestone SME Relocating Multi-criteria Decision Making
    - 10:20am - 10:20am, Dec 6

  - Risk Analysis For Information Technology In Financial Industry
    - 10:40am - 11:00am, Dec 6
    - Bromo 2

Technology Mgmt 2

- 10:20am - 12:00pm, Dec 6
- Bromo 3

  Session chair: Iwan Inrawan Wiratmadja

  3 Subsessions

  - Mutualism Effects Between E-Commerce And Convenient Store Industries
    - 10:20am - 10:40am, Dec 6
    - Bromo 3

  - Current State Of Bim Adoption In The Chinese Architectural, Engineering And Construction Industry
    - 10:40am - 11:00am, Dec 6
    - Bromo 3

  - Developing A Social Life Cycle Assessment Tool For Workers Of Micro And Small Scale Jewelry Industry In The Philippines: In The Case Of Meycauayan City, Bulacan
    - 11:00am - 11:20am, Dec 6
5 Subsessions

- **Demand Originated Reversible Lane Design For Transportation Networks**
  - 10:20am - 10:40am, Dec 6
  - Merapi 1

- **Improving Adaboost By A Sliding Window Scheme**
  - 10:40am - 11:00am, Dec 6
  - Merapi 1

- **Management Of Shared Learning Using Social Media Services**
  - 11:00am - 11:20am, Dec 6
  - Merapi 1

- **Consignment Stock In A Three-Level Supply Chain System With Multiple-Suppliers And Multiple-Retailers With Deteriorating Item**
  - 11:20am - 11:40am, Dec 6
  - Merapi 1

- **System design of Raspberry Pi-Based cluster for building camera 360 degree**
  - 11:40am - 12:00pm, Dec 6
  - Merapi 1

5 Subsessions

- **Pricing Decision in Supply Chain with Uncertain Random Factors**
  - 10:20am - 10:40am, Dec 6
  - Merapi 2

- **Uncertain Data and Uncertain Network Optimization**
  - 10:40am - 11:00am, Dec 6
  - Merapi 2

- **Risk averse behavior modeling in uncertain environment**
  - 11:00am - 11:20am, Dec 6
Reliability-based train scheduling in a high-frequency metro line
11:20am - 11:40am, Dec 6
Merapi 2

Rescheduling A Metro Line In An Over-Crowded Situation After Disruptions
11:40am - 12:00pm, Dec 6
Merapi 2

Others
10:20am - 12:00pm, Dec 6
Merapi 3

Lunch
12:00pm - 1:20pm, Dec 6
Kemangi Bistro, Hyatt Hotel