

Industrial System and Techno-Economics

Research Group

Faculty of Industrial Technology
Institute Technology Bandung



OUR RESEARCH PROFILE

Industrial System and Techno-Economics Research Group is a research group that utilizes Industrial Engineering Approach to increase productivity and competitiveness in an integrated system consisting of labour, raw materials, energy, information, technology and infrastructure that interact with business and industry community, society, and the government.

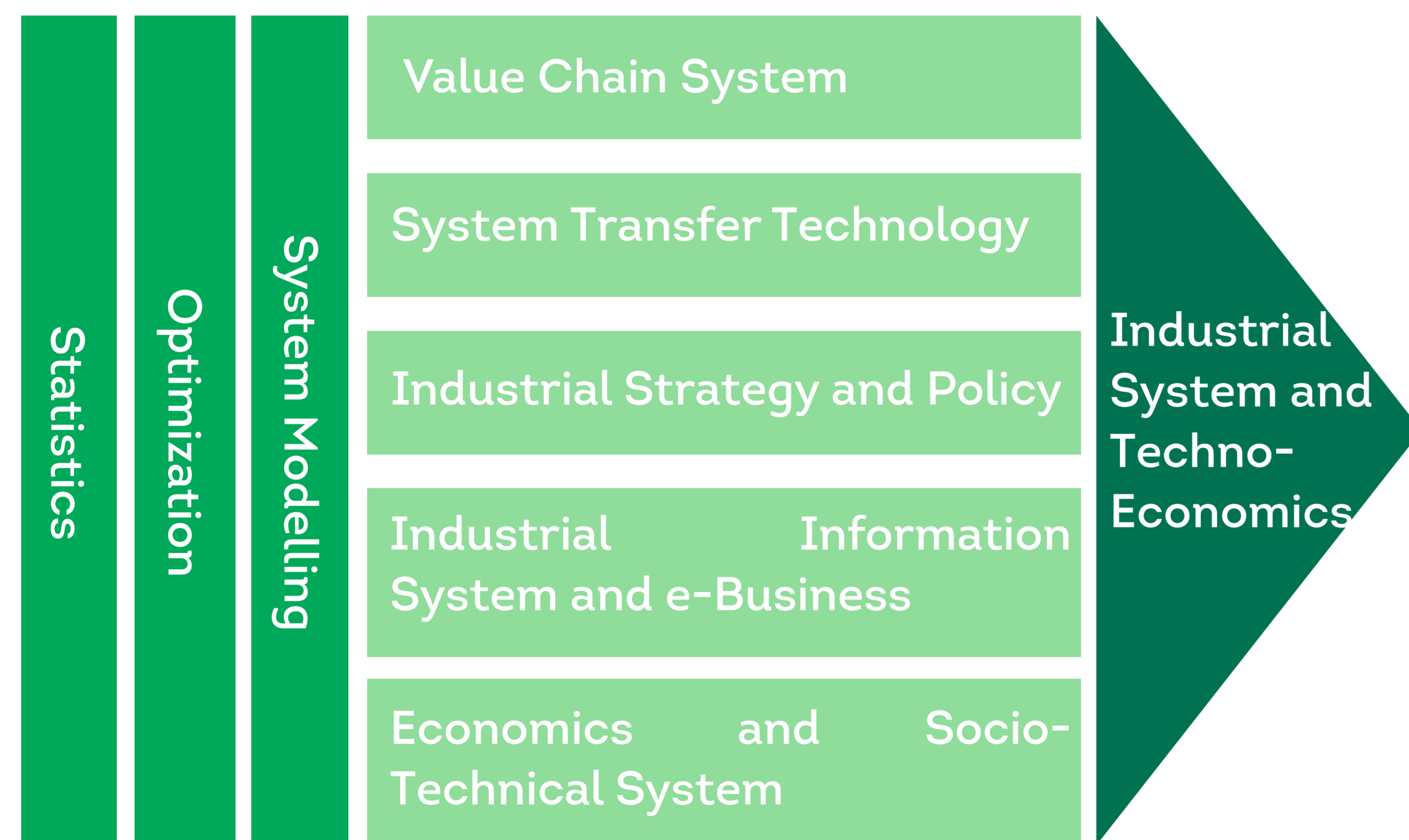


OUR FIELD OF INTERESTS

1. Large-Scale Modeling System; Methodology and Systems Planning, Analysis and Modeling Systems, the Decision Process, the Assessment System.
2. Industry Systems: Analysis of the Structure of the Industrial System, Competitiveness Analyses of the Industry, Industry Resources Needs Assessment, Planning Strategies and Industrial Policies.
3. Value Chain Systems: Sourcing Systems, Distribution Systems, Infrastructure Systems Value Chain, Strategy and Policy
4. Socio-techno-economic Systems: Analysis of the Socio-techno-economic, Planning and Evaluation of Public Service System.



OUR RESEARCH ROADMAP



OUR SELECTED PUBLICATIONS

1. A Continuous Berth Template Design Model with Multiple Wharfs
Maritime Policy & Management (Q1) - 2016 - Cited by 2
K. Huang, Suprayogi, Ariantini
2. A Simulated Annealing Heuristic for the Hybrid Vehicle Routing Problem
Applied Soft Computing Journal (Q1) - 2017 - Cited by 32
V.F. Yu, A.A.N.P. Redi, Y.A. Hidayat, O.J. Wibowo
3. A Two-Stage Model for the Design of Supply Chain Networks
International Journal of Production Research (Q1) - 2002 - Cited by 99
A. Cakravastia, I.S. Toha, N. Nakamura
4. Development of System Dynamic Model to Diagnose the Logistic Chain Performance of Shipbuilding Industry in Indonesia
International System Dynamics Conference - 1999
A. Cakravastia, L. Diawati
5. Discrete-Event Systems Modeling and the Model Predictive Allocation Algorithm for Integrated Berth and Quay Crane Allocation
IEEE Transactions on Intelligent Transportation Systems (Q1) - 2019
R.T. Cahyono, E.J. Flonk, B. Jayawardhana
6. Integrated Model for Supplier Selection and Negotiation in A Make-to-Order Environment
International Journal of Production Research (Q1) - 2004 - Cited by 72
A. Cakravastia, K. Takahashi
7. Modelling Policy Mix to Improve the Competitiveness of Indonesian Palm Oil Industry
Journal of Industrial Engineering and Management (Q2) - 2016
R.Y.H. Silitonga, J. Siswanto, T. Simatupang, S. Nur Bahagia
8. The Development of Fuzzy AHP using Non-Additive Weight and Fuzzy Score
Proceeding of The Indonesian Symposium of The Analytic Hierarchy Process - 2000
T. Yudhistira, L. Diawati
9. Understanding Tourist Movement Pattern: Value Chain Approach
The 7th International Conference on Operations and Supply Chain Management - 2016
P.G.A. Kusuma, S. Nur Bahagia, L. Diawati, M.P. Gunawan

OUR RESEARCH GROUP MEMBERS



Dr. Andi Cakravastia (Chair)
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Field of Interest
1. Operation Research and Decision Science
2. Supply Chain System Design and Development
Citation and H Index
(259 - 5)



Prof. Senator Nur Bahagia
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Field of Interest
Logistics and Supply Chain
Citation and H Index
(6- 1)



Dr. Lucia Diawati
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Field of Interest
1. System Modelling and Simulation
2. Industrial Policy Design and Analysis
Citation and H Index
(19 - 3)



Suprayogi, Ph.D.
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Field of Interest
1. Transportation and Distribution
2. Soft Computing and Algorithm Design
Citation and H Index
(52- 4)



Titah Yudhistira Ph.D.
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Field of Interest
1. Advanced Statistical Analysis
2. Marketing Research and Intelligence
Citation and H Index
(1 - 1)



Dr. Eng Yosi Agustina Hidayat
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Field of Interest
1. Supplier-Buyer Relationship in Supply Chain Management
2. Decision Analysis in Health Care Industry
Citation and H Index
(45 - 3)



Rully Tri Cahyono S.T., M.T.
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Field of Interest
1. Control Applications in Logistics Engineering
2. Simulation and Optimization



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Field of Interest
Decision Analysis in Inventory System



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Field of Interest
1. Maritime Logistics
2. Vessel Operations



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Field of Interest
Optimization of Container Terminal and Logistics
Source: Scopus



OUR EDUCATION PARTNERS

