

List of Propositions

related to the dissertation

Agent-based Inter-organizational Systems in Advanced Logistics Operations

by
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I

Agent-based Inter-organizational Systems (ABIOS) can be analyzed from three perspectives: (a) to support coordination [Chapter 2], (b) the impact on business performance [Chapter 3], and (c) the design of the system [Chapter 4 and Chapter 5].

II

An IOS with high coordination capability can provide support in (1) finding and selecting prospective collaborators, (2) formulating and settling coordination arrangements, and (3) preparing, executing, and controlling coordination strategies. [Chapter 2].

III

Agent-technology aligned with the coordination structure and information architecture explains the performance of business networks. [Chapter 3].

IV

The agent-based appointment system using a modified auction mechanism can be used to improve the appointment reservation of container's pick-up/delivery operations in seaports. [Chapter 4].

V

Drayage trucks' trajectory data can be used to predict the seaport terminal service rate performance [Chapter 5].

VI

To reap the maximum benefits of predictive analytics, companies must implement a solid data governance policy.

VII

Coordination is not achieved just through exchanging information; nodes (organizations) must reason about what that information represents and how exchanging information will affect their individual and group behavior performance – Edmund Durfee

VIII

While the implementation of Indonesia logistics policy has been focused on physical infrastructures, a comprehensive logistics information systems policy is required to achieve higher national logistics performance.

IX

Only a man who knows what it is like to be defeated can reach down to the bottom of his soul and come up with the extra ounce of power it takes to win when the match is even. - Muhammad Ali

X

Ir. Soekarno, the first president of Indonesia, graduated from “*De Technische Hoogeschool te Bandoeng*” (now Bandung Institute of Technology) and Drs. Hatta, the first vice-president of Indonesia, graduated from “*De Handels Hogeschool Rotterdam*” (now Erasmus University Rotterdam). If someone is able to graduate from both reputable institutions, what can he contribute to his nation?

XI

Finishing a PhD while raising a new family is a challenging journey. One who chooses this path will need to do anything to create success not only for himself/herself, but also for his/her family.