Summary

Global Management System of R & D Personnel

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An internationalization of R&D means to apply the resources of R & D from a global point of view. This is an important R&D strategy in order to obtain the R&D superiority internationally. However it brings about newly problems of the management system, such as the adoption, ability development, career development, evaluation and treatment of the R&D personnel, different from the domestic system.

At this research, at first, I enforced the questionnaire investigation to the researchers of the enterprise at Japan, Britain, Korea, and Indo. On the findings, I made obvious for the characteristic of the system of the adoption of researchers, ability development, career development, evaluation and treatment for the R&D personnel in the each country. For the next, I considered about the global management system for the R&D personnel, from the point of one common course of the each country management system. Further, with the inside, I reconsidered about the management system for the R&D personnel in the Japanese enterprise.
Summary

Systems of Innovation Approaches: An Overview

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'Systems of Innovation' is a new approach for the study of innovations in the economy that has emerged during the last decade. In this paper, various coexisting approaches to the 'Systems of Innovation' are briefly outlined and their main characteristics are identified.

Part I contrasts two trends of National Systems of Innovation approaches, different in orientation but complementary, of B.-Å. Lundvall and R.R. Nelson. The former is theoretically oriented, and places interactive learning and organizational innovation at the center of analysis. The latter, being empirically oriented, focuses on the intertwining of science and technology and the key institutions involved.

Part II sorts out and reviews Technological, Sectoral, and Regional Systems of Innovation approaches. While Technological Systems of Innovation approach (Bo Carlsson) emphasizes the spillover mechanisms of innovation and receiver competences of actors, Sectoral Innovation Systems approach (F. Malerba et al.) investigates the sectoral dynamics and spatial boundaries of innovation systems on the basis of concept 'technological regime'. In contrast with them, Regional Innovation Systems approach (P. Cooke et al.) sheds light on the two key dimensions of regional innovative activities: the governance infrastructure and modes of business interrelationship.

Part III points out several common advantages and problems in the
'Systems of Innovation' approaches: to analyze interactive learning and institutional embeddedness as central issues, including product technologies and organizational innovations, accompanied with a path-dependent perspective, but with conceptual frameworks rather than formal theorizing. Finally, some kinds of problems associated with the roles of institutions in the process of innovation are mentioned.