Managing The Dynamics Of New Technology: Issues In Manufacturing Management

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Technology management needs to be separated from research and development (R&D) management. R&D management refers to the process by which a company runs its research laboratories and other operations for the creation of new technologies. Technology management focuses on the intersection of technology and business, encompassing not only technology creation but also its application, dissemination, and impact. Michael Bigwood suggests that New Technology Exploitation (NTE) lies somewhere between R&D and New Product Development, with characteristics of the cyclical learning process of Guoqing Zhang (Managing Guest Editor) Supply Chain Management and Logistics Optimization Research Center University of Windsor Canada Email: gzhang@uwindsor.ca. Prof. Xiang Li The School of Business Beijing University of Chemical Technology China Email: lixiang@mail.buct.edu.cn. Prof. Ali Diabat Civil and Urban Engineering New York University Abu Dhabi United Arab Emirates Email: diabat@nyu.edu. Guest Editors: Alexandre Dolgui, Dmitry Ivanov. Small and Medium Manufacturing Enterprises and Asia’s Sustainable Economic Development. Call for Papers.
4. Are New Technologies ‘De-Scaling’? 4.1 The Product Dimension of Scale 4.2 The Plant Dimension of Scale 4.3 The Firm Dimension of Scale. 5. Some Additional Considerations: ‘New Industries’ and ‘Third Italy’ 5.1 ‘New Industries’ 5.2 Third Italy. 6. Conclusions. Endnotes. Bibliography. Â ‘De-scaling’ in manufacturing industry could have at least five important related consequences for smaller scale firms and industrialisation. First, it would increase the efficiency of small-scale production (Dosi, 1988). Second, it may decrease the importance of plant-related economies of scale that were the source of productivity growth before NT were introduced (Dosi, 1988). Third, insofar as scale is a barrier to entry to other firms (Bain, 1956), more entry and competition by smaller firms could be expected. 14. Noori H., Managing the Dynamics of New Technology: issues in manufacturing management, Prentice-Hall, Englewood Cliffs, NJ, 1990. 15. Oslo Manual - Guidelines for collecting and interpreting innovation data, Third edition, OECD, 2005. 16. Papinniemi J., Creating a model of process innovation for reengineering of business and manufacturing, Int.