

Title หัวข้อ Author Name(s) & Current Address(es) ชื่อผู้เขียน และที่อยู่ปัจจุบัน Abstract บทคัดย่อ Key words คำหลัก (3 คำ) Footnote (optional)	A Layout Technique for Unequal Area and Shape Departments Considering Main Aisle (Main 通路設定を考慮した異形状異面積部レイアウト技法の開発) Weerapat SESSOMBOON, Toshiko MUROFUSHI, Takashi IROHARA and Kazuo YOSHIMOTO Department of Industrial and Management Systems Engineering Graduate School of Science and Engineering Waseda University 3-4-1 Okubo Shinjuku-ku Tokyo 161 JAPAN weerapat@yoshimura.waseda.ac.jp Abstract In this paper, a layout technique for unequal area and shape departments with a main aisle is proposed. (FAS), which is an aisle structure considering the need rectangular departments. The structure are optimized simultaneously using the genetic algorithm, which is based on the material handling cost between departments, we use the distance between departments along aisles, in order to take into account the existence of the main aisle. Also, a new measurement for evaluating department shapes, which have unequal area, unfixed rectangles, is proposed. Numerical experiment of problems with 10 and 30 departments demonstrate the effectiveness and efficiency of the proposed method. The results show the effectiveness of controlling department shapes of using distance along aisles in the objective function. Key Words: Plant Layout, Flexible Bay Structure (FBS), Simulated Annealing Full paper is published in Transactions of the Japan Society of Mechanical Engineers - JBME (Volume C), No. 69-615, November 1997, pp. 361-368
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