

Expert System for Manufacturing Sequence Determination in Hot-Rolling Processes

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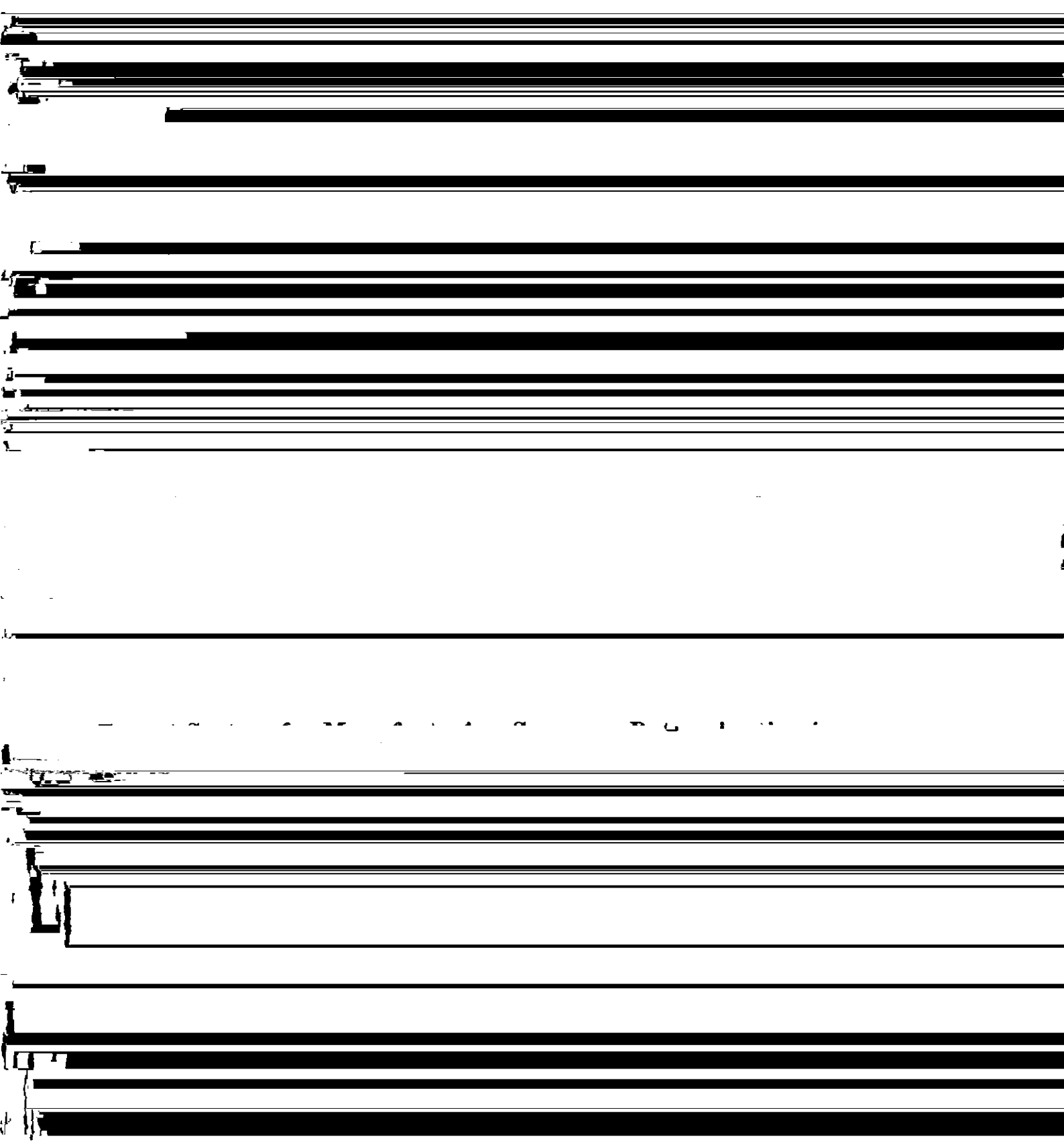
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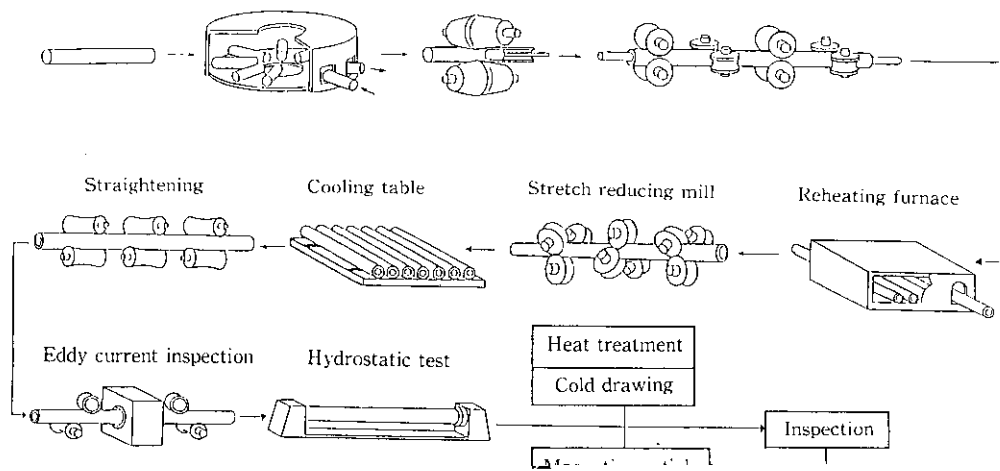
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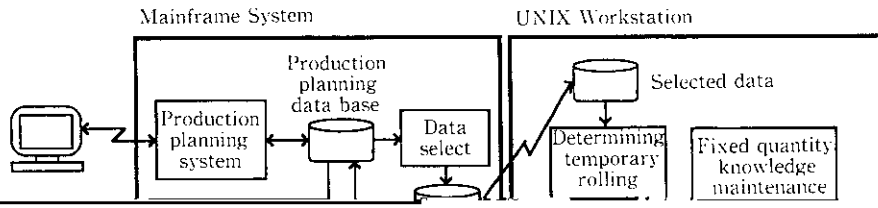
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Synopsis :

Kawasaki Steel Chita Works has developed an expert system for determining the manufacturing sequence in the hot-rolling process of seamless steel pipe based on knowledge engineering. This expert system is allocated in the workstation as a back-end co-processor connecting to the mainframe computer using a distributed system technology. To build this system, the authors implemented with their self-developed expert system tool coded in C. This knowledge-based model is founded on the forward chaining inference with production rules. The manufacturing sequence by









5.2 今後の課題

(1) 新技術の確立

本システムはメインフレームとワークステーション間の分散

技術を必要とせず実行することが可能となり、大きな目的の一つを

ウ、メインフレームとの通信など、今後の分散処理環境の基盤

システム構築のノウハウを獲得することができた。今後このシステムに機能追加、改良による適用を広げていくには必要不可欠

(2) エキスパートシステム構築基盤の確立

エキスパートシステムの構築に際しては、C言語ベースの自