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Structural Transformation and the Rise of Information Technology

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Highlights

- We propose a task-based index of information technology, defined at the occupational level
- We document significant growth in the share of IT intensive jobs and quantify the earnings premium of IT intensive jobs
- Higher IT intensity at the occupation level is associated with declines in manufacturing employment
- We estimate an elasticity of substitution between IT and non-IT jobs of 1.6 in manufacturing and 1.3 in services
- Occupation-level IT intensity is positively associated with output and productivity growth, especially in the services sector

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