

Induced Innovation Theory And International Agricultural

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Induced innovation is a microeconomic hypothesis first proposed in 1932 by John Hicks in his work *The Theory of Wages*. He proposed that "a change in the relative prices of the factors of production

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is itself a spur to invention, and to invention of a particular kind—directed to economizing the use of a factor which has become relatively expensive."

Induced innovation - Wikipedia

Major critiques of the induced innovation theory are discussed and new directions in its development are suggested. The perspectives represented by the critical applications come from economics, sociology, and political science, together raising the reassessment question. The examples of new directions for the theory represent attempts to strengthen the economic logic, explanatory power, and...

Induced innovation theory and international agricultural ...

In the late 1960s, Ruttan and Hayami introduced the induced innovation theory to explain how technological changes could be effected in agricultural economies. This book brings together a group of economists and sociologists to assess how well the theory has weathered criticism and met the challenge of explaining technical and institutional change in agriculture in developing countries.

Induced innovation theory and international agricultural ...

Chapter 2 in Induced Innovation Theory and International Agricultural Development: A Reassessment, ed. Bruce M. Koppel, (Baltimore, MD: Johns Hopkins University Press, 1995), pp. 22-36. Also published as Chapter 2 in Can Economic Growth Be Sustained?The Collected Papers of Vernon W. Ruttan and Yujiro Hayami, eds. Keiji Otsuka and C. Ford Runge, (New York, NY: Oxford University Press, 2011 ...

"Induced Innovation Theory and Agricultural Development: A ...

The Induced Innovation Hypothesis and Energy-Saving Technological Change Richard G. Newell,

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Adam B. Jaffe, Robert N. Stavins. NBER Working Paper No. 6437 Issued in March 1998 NBER Program(s):Productivity, Innovation, and Entrepreneurship, Environment and Energy Economics It follows from Hicks' induced innovation hypothesis that rising energy prices in the last two decades should have induced ...

The Induced Innovation Hypothesis and Energy-Saving ...

Induced Innovation Theory and Agricultural Development Induced Innovation Theory and Agricultural Development. A Personal Account. Chapter: (p.10) Chapter 2 Induced Innovation Theory and Agricultural Development Source: Can Economic Growth Be Sustained? Author(s): Vernon W. Ruttan Yujiro Hayami Publisher: Oxford University Press

Induced Innovation Theory and Agricultural Development: A ...

B. Induced Innovation in the Public Sector Innovative behavior in the public sector has largely been ignored in the literature on induced innovation. There is no theory of induced innovation in the public sector. ~/ This defect is particularly critical in attempting to understand the role of technical change in agricultural

INDUCED INNOVATION IN AGRICULTURAL DEVELOPMENT

William Fellner, 'Two Propositions in the Theory of Induced Innovations', Economic Journal, 71 (June 1961), 305-8. CrossRef Google Scholar William Fellner, 'Empirical Support for the Theory of Induced Innovation', Quarterly Journal of Economics , 85 (1971), 580-604.

Induced Innovation in Agriculture | SpringerLink

In the second half of the 20th century innovation theory was in particular furthered by three approaches to understanding technological change: induced innovation, the evolutionary approach, and the path-dependent model. The evolutionary and path dependency approaches stress the

importance of past

Innovation Theory: A review of the literature

tions literature attempted to understand what type of innovations the economy would generate, and the relationship between factor prices and technical change. Although it was Hicks in The Theory of Wages (1932) who first discussed the issue of induced innovation,¹ the important advances were made during the 1960s by Kennedy (1964),

Factor Prices and Technical Change: From Induced ...

In this paper we elaborate a theory of institutional innovation in which changes in the demand for institutional innovation are induced by changes in relative resource endowments and by technical change. We illustrate, from agricultural history, how changes in resource endowments and technical change have induced changes in private property rights and in the development of non-market ...

Toward a theory of induced institutional innovation: The ...

Induced innovation theory was introduced to explain how technological changes could be effected in developing and developed agricultural economies. This test assesses how well the theory has weathered criticism and met the challenge of explaining institutional change in agriculture.

Induced innovation theory and international agricultural ...

1. Induced Technological Change and the Environment: An Introduction Arnulf Gr bler, Nebojsa Nakicenovic, and William D. Nordhaus 2. Sources of Technological Change: Induced Innovation, Evolutionary Theory, and Path Dependence Vernon W. Ruttan 3. Induced Technical Innovation and Medical History: An Evolutionary Approach Joel Mokyr 4.

Technological Change and the Environment - 1st Edition ...

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While the induced technological change literature conventionally rests on Hicks (1932), and later evolutionary growth theorists (such as Romer, 1990), the dual processes of innovation and diffusion in environmental technologies rely principally on the Porter Hypothesis (PH), which proposes that environmental policy stringency can have positive innovation offsets in countries where that stringency is effective and occurs sooner than in other countries (Porter, 1991; Porter and Van der Linde ...

Induced innovation in clean energy technologies from ...

The chapter concludes with an interpretation of the current debate over international climate issues, which is considered a major threat to sustainable economic growth other than poverty in low-income countries. ... T2 - Induced Innovation in Economic Theory and Environmental Policy. AU - Ford Runge, C. ...

Stream, River, Delta: Induced Innovation in Economic ...

"Induced Innovation Theory and Agricultural Development: A Reassessment" Vernon W. Ruttan and Yujiro Hayami Chapter 10 in Induced Innovation Theory and International Agricultural Development: A Reassessment , ed. Bruce M. Koppel, (Baltimore, MD: Johns Hopkins University Press, 1995), pp. 169-188

Vernon W. Ruttan | InSTePP: International Science ...

Ruttan's research focused on agricultural development, induced innovation, technical change and productivity growth, institutions, and development assistance policy. His book with Yujiro Hayami, Agricultural Development: An International Perspective was considered a classic in the field and was translated into four other languages.

Vernon Wesley Ruttan - Wikipedia

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The induced innovation hypothesis (IIH)— that a change in relative input prices induces innovation to economize use of the increasingly expensive input (Hicks 1932)—has had a profound impact on both macroeconomic and microeconomic production literature. With the development of the microeconomic foundations of induced innovation theory

THE INDUCED INNOVATION HYPOTHESIS AND U.S. PUBLIC ...

Regarding the theory of induced innovation, limited abatement options are available for the industrial cluster and there is the need to scale up existing technologies. Lastly, to both tackle the risk of investment leakage and enhance the scaling up of low-carbon technologies, government intervention in the form of regulations, subsidies and ...

Carbon Tax, Carbon Leakage and the Theory of Induced ...

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