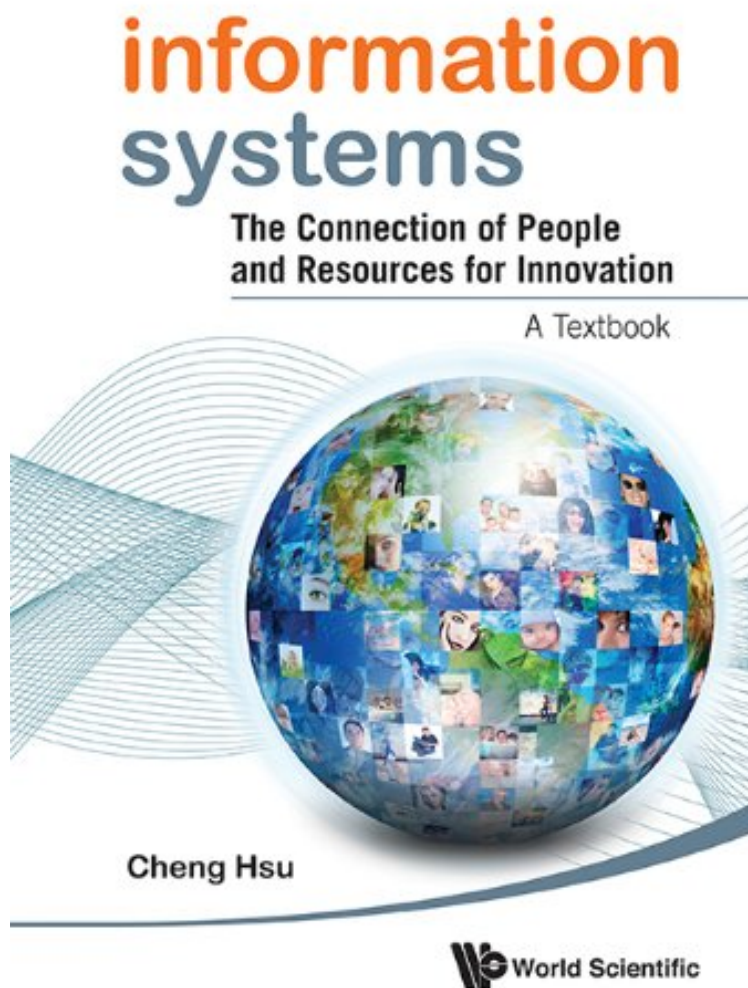


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Information Systems:The Connection of People and Resources for Innovation mdash; A Textbook

Cheng Hsu

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**Cheng Hsu : Information Systems:The Connection of People and Resources for Innovation mdash;
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0 of 1 people found the following review helpful. This book raises eyebrowsBy Kent EastThe author says that he wants to write a definitive textbook about Information Systems; and also says that the book is for serious students. Wow. In a field where one can find hundreds (if not thousands and tens of thousands) of books bearing these two

words information systems in their titles, this is quite a claim (even if one ignores the obvious question about the many IS textbooks being used today: are they for serious students?) Well, I agree with the author. Folks who are searching for a book with it to study IS for real can stop the search right here and now. This book builds IS around a powerful concept: the connection of people and resources for innovation. It uses the notion of human value networks to substantiate the usual ideas of connection and innovation - and give these otherwise platitudinous words uniquely refreshing content. On this basis, the other two common words, people and resources, become naturally the objects and subjects of design for building the connections and pursuing the innovations - i.e., the design of information systems. From here, the book develops the basic concept of IS (covering both application and scientific), the strategic planning of IS, and the system analysis and database design of IS; which are standard topics to the IS field. However, the twist here is that, while meeting the standard requirements of IS courses, it develops these traditional topics in an interesting new global framework characterized by systems of IS and sustainability of IS. The book also combines the emerging network science and service science to explain how IS connects and innovates for the knowledge-based economies. The last chapter connects the science of IS to micro-economics with an anchor in production functions. Every chapter includes many exercises and cases throughout, which add considerable value to the book for the reader, and make it a textbook suitable for self-study as well as for classroom teaching.

This unique new textbook on Information Systems (IS) provides an answer to a few basic questions in the field: What is the scientific nature of IS? How do we design IS in today's connected world? What is the relationship between IS and innovation in knowledge economies? Whereas mainframe corporate computers tended to dominate the thinking in the 1980s, the dominating factor today is personal digital devices that connect the world as one whole IS. Network science is emerging to describe these digital connections (e.g., social networking), and service science is similarly emerging to describe service value networks. This book therefore synthesizes the emerging network science and service science with the classic IS theory, resulting in a new set of principles for IS strategic planning. It also reviews the standard IS topics of system analysis and database design, covering the whole spectrum of databases and all the major methods and techniques of database design. The role of IS as a technological innovation in the knowledge economy is also analyzed. In doing so, new concepts such as basic values of IS, systems of IS, sustainability of IS, IS as a service system, IS as a human value network, and the hyper-network model for innovation by IS, are developed.

Contents: Information Systems: The Science and Practice of Connecting People and Resources to Create Value
Strategic Planning for Information Systems: Determine the Mission of Innovation and the Scope of the Human Value Networks Involved
Development of Information System Master Plans: Identify the Optimal Roadmap to Connecting People and Resources According to the Mission
Process Modeling: Analyze the Specific Information System Resources Required in the Mission and Master Plan
Architectures of Information Integration: From Single Databases and Distributed Databases to Multiple Databases and Internet Databases
Designing Databases: Data Normalization and Data Modeling Using Entity, Relationship, and Object Hierarchy
Techniques of Database Processing: From SQL for Single Databases to Extensions of SQL for Global Query of Independent Databases
A Strategic Planning Case: Innovation by Hyper-Networking Humans and Physical Environment to Improve a Regional Economy
Information Systems and Knowledge Economy: Review of Select Student Projects, Preview of New Microeconomic Production Functions, and a Case for Optimism
Readership: Upper-level undergraduate/postgraduate students and researchers in Information Systems; working professionals who wish to advance their knowledge on IS planning and design.

From the Inside Flap This unique new textbook on Information Systems (IS) provides an answer to a few basic questions in the field: What is the scientific nature of IS? How do we design IS in today's connected world? What is the relationship between IS and innovation in knowledge economies? Whereas mainframe corporate computers tended to dominate the thinking in the 1980s, the dominating factor today is personal digital devices that connect the world as one whole IS. Network science is emerging to describe these digital connections (e.g., social networking), and service science is similarly emerging to describe service value networks. This book therefore synthesizes the emerging network science and service science with the classic IS theory, resulting in a new set of principles for IS strategic planning. It also reviews the standard IS topics of system analysis and database design, covering the whole spectrum of databases and all the major methods and techniques of database design. The role of IS as a technological innovation in the knowledge economy is also analyzed. In doing so, new concepts such as basic values of IS, systems of IS, sustainability of IS, IS as a service system, IS as a human value network, and the hyper-network model for innovation by IS, are developed.