Challenges of Information Technology Education in the 21st Century

Table of Contents

Preface .................................................................................................................. vii
   Eli Cohen, Informing Science Institute, USA

Section I: Examples on How to Teach Specific Topics

Chapter I
Teaching Teamwork in Information Systems.................................................... 1
   Connie E. Wells, Roosevelt University, USA

Chapter II
The Challenge of Teaching Research Skills to Information Systems and Technology Students.......................................................... 25
   Beverley G. Hope, Victoria University of Wellington, New Zealand and City University of Hong Kong
   Mariam Fergusson, PricewaterhouseCoopers, Australia

Chapter III
Data Modeling: A Vehicle for Teaching Creative Problem Solving and Critical Appraisal Skills .......................................................... 41
   Claire Atkins, Nelson Marlborough Institute of Technology, New Zealand

Section II: Teaching Techniques and Pedagogy

Chapter IV
Towards Establishing the Best Ways to Teach and Learn about IT .... 57
   Chris Cope, Lorraine Staehr, and Pat Horan
   La Trobe University, Bendigo, Australia

Chapter V
Computer-Supported Learning of Information Systems:
Matching Pedagogy With Technology.............................................................. 85
   Raquel Benbunan-Fich and Leigh Stelzer
   Seton Hall University, USA
Chapter VI
Problem-Based Learning in Information Systems Analysis and Design ............................................. 100
John Bentley and Geoff Sandy, Victoria University, Australia
Glenn Lowry, United Arab Emirates University

Section III: Impact of the Web on IT Teaching

Chapter VII
Teaching or Technology: Who’s Driving the Bandwagon? .......... 125
Geoffrey C. Mitchell, Victoria University of Wellington, New Zealand
Beverley G. Hope, Victoria University of Wellington, New Zealand and City University of Hong Kong, China

Chapter VIII
Delivering Course Material via the Web: An Introduction......... 146
Karen S. Nantz and Terry D. Lundgren
Eastern Illinois University, USA

Chapter IX
Bridging the Industry-University Gap: An Action Research Study of a Web-Enabled Course Partnership ........................................ 166
Ned Kock, Temple University, USA
Camille Auspitz and Brad King, Day & Zimmermann, Inc., USA

Section IV: Developing an IT Curriculum

Chapter X
E-Commerce Curriculum Strategies and Implementation Tactics: An In-Depth Examination of DePaul University’s Experience ..................... 187
Linda V. Knight and Susy S. Chan
DePaul University, USA

Chapter XI
Information Systems Curriculum Development as an Ecological Process.............................................. 206
Arthur Tatnall, Victoria University of Technology, Australia
Bill Davey, RMIT University, Australia
Chapter XII
Information Technology Model Curricula Analysis .............................. 222
  Anthony Scime’, State University of New York at Brockport, USA

Chapter XIII
Curriculum Model of the Information Resource Management Association
and the Data Administration Managers Association ............................ 240
  Eli Cohen, Leon Kozminski Academy of Entrepreneurship
  and Management, Poland, and Informing Science Institute, USA

About the Authors ...................................................................................... 261

Index .......................................................................................................... 267