

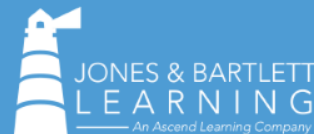
# Nursing Informatics and the Foundation of Knowledge, Fourth Edition

**Featured Presenters:** Dee McGonigle and Kathleen Mastrian

**Webinar:** Tuesday, February 21, 2017



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# The Authors



## **Dee McGonigle, PhD, RN, CNE, FAAN, ANEF**

- Director, Virtual Learning Experiences and Professor, Graduate Programs at Chamberlain College of Nursing
- Cofounder of the Online Journal of Nursing Informatics and Editor in Chief for 17 years until HIMSS took over the journal
- 35 years of computing and nursing informatics experience
- Over 40 years of teaching experience including > 25 years in online and virtual learning



## **Kathleen Mastrian, PhD, RN**

- Associate Professor and Nursing Program Coordinator Penn State University
- 37 years teaching experience; over 15 years or experience teaching informatics
- Sr. Managing Editor of OJNI



# Purpose

- To provide a set of practical and powerful tools to ensure that readers gain an understanding of NI principles and roles
- To prepare nursing students and nurses to meet the challenge of practicing nursing in the Knowledge Era while striving to improve patient care at all levels.
- Help the reader understand knowledge and how it is acquired, processed, generated, and disseminated
- Demonstrate the value of the NI discipline as an attractive field of specialization



# Audience

- Nursing students from BS through DNP/PhD programs
- Nurses who acquire informatics roles in clinical agencies
- Practicing nurses who want to explore the transformative effects of technology



# Pedagogy

- Introductions
- Chapter Objectives
- Key Terms (comprehensive definitions in glossary)
- Research Briefs
- Case Studies
- Summaries
- Thought-Provoking Questions





# Text Overview

## Based on the Foundation of Knowledge Model

- Knowledge concepts include:
  - Nurses as knowledge workers
  - Organizational knowledge management
  - Building the body of nursing knowledge

## Features informatics competencies

- DIKW paradigm
- QSEN competencies
- AACN competencies BS thru Doctoral level
  - Competencies are mapped to TOC in instructor manual

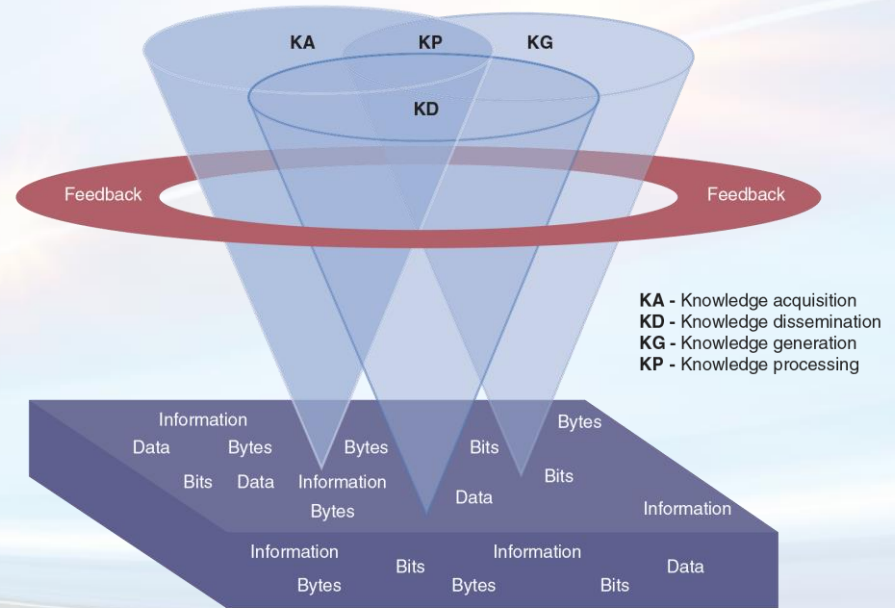


Figure 1-2 Foundation of Knowledge Model  
Designed by Alicia Mastrian

# Overview, cont.

## Basic through complex concepts from novice through innovator level of competencies

- Building blocks of NI
- Cognitive science and cognitive informatics
- History and evolution of NI
- NI as a specialty
- Workflow
- New reimbursement paradigms beyond meaningful use
- Data mining
- Patient engagement
- Connected health
- Systems development life cycle
- Organizational decision making and knowledge management
- Telenursing and telehealth
- Simulation, game mechanics and virtual worlds in nursing education
- Translational research
- Bioinformatics, biomedical informatics and computational biology
- Art of caring in technology laden environments



# What's New in the Fourth Edition?

- Updated chapters based on technological advancements and changes to the healthcare arena including reimbursement mechanisms for services
- Improved flow by combining and rearranging content
- Revised the patient safety chapter to emphasize patient engagement and connected health
- Added more illustrations
- Mapped content to informatics competencies in faculty handbook
- Included an overview of the history of nursing informatics and the NI pioneers





# What's New, cont.

## Expanded discussions of:

- Cloud computing
- Security: hacking, spam, password creation
- DIKW paradigm
- NI Roles
- The quest for a standardized terminology to capture and codify the work of nursing
- Interoperability
- Aggregating patient and organizational data
- Changing reimbursement systems (beyond meaningful use)
- Accountable care organizations and learning healthcare systems



# Ancillary Materials

- Comprehensive instructor manual
  - Presentation slides
  - Learning activities
  - Internet based video suggestions
  - Test banks (30 Q per chapter, mid-term and final)
- Competency based self-assessments
- Mapping the content to the current NI standards
- Cross Map of 3rd Ed TOC and 4th Ed TOC



# How We Use the Text

## Dee – used in undergraduate and graduate courses

- Basic building blocks and introduction to NI
- DIKW Pathway
- NI integration in all areas of nursing
- Level 1 through Level 4 NI competencies
  - Assessing your own level and how to enhance competence

## Kathy – uses in 4 different courses

- Introduction to Informatics—overview of NI
- Ethical challenges—managing private information
- Advanced concepts—NI roles, data mining, bioinformatics, SDLC, organization knowledge management
- Comprehensive graduate level health informatics course



# Students Love it!



- Easy to read and follow
- Organized
- New terms are fully defined
- Exposes them to new content and concepts
- Appreciate the transformative effects of technology in HC



# Why Faculty Love it



- Provides the building blocks of NI
- Thought provoking questions
- They can use it undergrad and grad courses
- Integrating the Foundation of Knowledge model into critical thinking and clinical judgement skills





# What Reviewers Said



- The text looks at informatics from a variety of perspectives.
- Overall, the textbook has a wealth of information presented and covers the content of nursing informatics from the historical perspective to present day extremely well
- In my opinion the strengths are the engaging content, easy to read, and not a dry read.
- It provides the necessary content for students to gain a nursing informatics foundation and want to know more.
- The strengths are the clarity in which the author presents the material for the learner.



# Reviews, cont.



- It is a thorough treatment of the subject combining the political underpinnings with knowledge foundations and practice considerations. It envisions and supports the role of nurses as change agents in Health Information Technology.
- This textbook is the most comprehensive presentation of the field of informatics that I could find. It covers all aspects of the field for those who know nothing about informatics before reading this textbook
- This is like the bible to introduction of nursing informatics.
- The book is excellent. It is well organized, uses a variety of interactive strategies, was well-researched and includes many sources of evidence that support and/or bolster points of view.



# This Text is Different

- We help students and nurses understand the basics as well as advanced concepts within the NI specialty
- We teach informatics on a regular basis, so we have developed a text that addresses the needs of our students
- We provide comprehensive instructor materials and specific suggestions for active learning assignments including 3 high-level PEDDA demonstration assignments
- We emphasize nursing informatics competencies



# Different from Other Texts

- Comprehensive and specific to NI
- Provides the building blocks of NI for foundational knowledge
- Prepares nurses and nursing students to integrate NI into their practice areas
- Examines the NI specialty and roles
- Helps nurses recognize what NI brings to the inter-professional table
- Covers all applications of informatics—practice, education, research



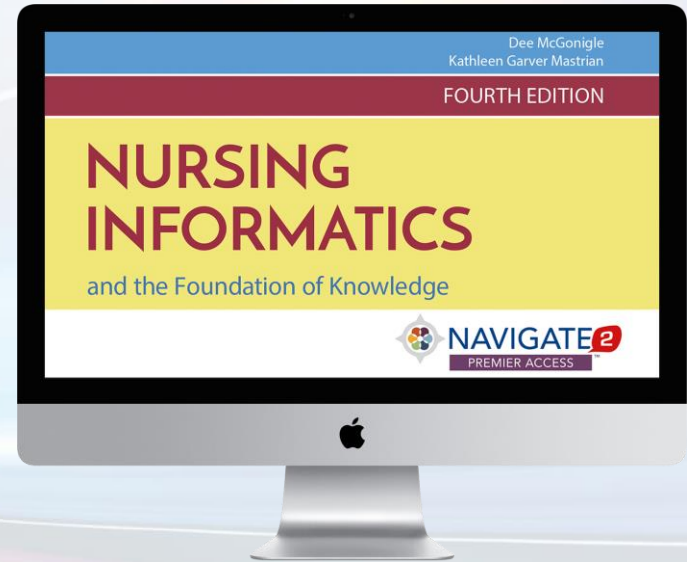




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