Index

A

activities of daily living (ADLs) 74
adaptive mapping to realization methodology (AMR) 116
adaptive neuro-fuzzy inference system (ANFIS) 209
Agency for Healthcare Research and Quality (AHRQ) 34
analytic principle 7
ancillary systems (ADCs) 56
artificial neural networks (ANNs) 225
Association for Healthcare Resource and Materials Management (AHRMM) 45
Australasian Diabetes in Pregnancy Society (ADIPS) 110
Automatic Dispensing Cabinets (ADC) 44
Automatic IDentification (AutoID) 43

B

Bayesian Networks (BNs) 193-194
Blockmodel analysis 252, 255, 258-260, 262

C

Capability Maturity Model (CMM) 3, 5, 182
Centers for Disease Control and Prevention (CDC) 77
children and youth psychiatry (CYP) 61
clinical decision support (CDS) 220
computerized patient records (CPR) 147
computerized physician order entry (CPOE) 147, 177
Conditional Probability Tables (CPTs) 198
confirmatory factor analysis (CFA) 173
Congestive Heart Failure (CHF) 33
ccontent-based image retrieval (CBIR) 220
cconventional diagnostic procedures (CDPs) 209
ccooperative ensemble learning system (CELS) 226
County Health Authority 61-62, 65-66, 68-69
CoxHealth 49-53, 55-56
customer relationship management (CRM) 181

D

Decentralized Hospital Computer Program (DHCP) 75
Department of Defense (DoD) 49
dependency network diagramming (DND) 132
design science research (DSR) 183
directed acyclic graphs (DAGs) 195
Dreyfus model of skill acquisition 6

efficient supply chains 42
electrocardiogram (ECG) 209, 211
Electronic Data Interchange (EDI) 43
electronic health record (EHR) 96, 161, 238
electronic health records (EHRs) 139, 157
electronic medical record (EMR) 75, 148, 242
electronic medical records (EMRs) 89, 148, 155
electronic medication administration (eMAR) 161
Electronic Patient Record (EPR) 245
emergency department (ED) 196
Evidence-based practice (EBP) 247-248
Evolutionary algorithms (EAs) 225
Evolving Artificial Neural Network Ensembles (EANNEs) 219, 225
Evolving Artificial Neural Networks (EANNs) 219, 225

F

Family Health Team (FHT) 10
fuzzy logic (FL) 211

G

General Practice Information Maturity Model (GPIMM) 6
Index

Genetic Algorithm (GA) 225, 234
Gestational diabetes mellitus (GDM) 110
Global Data Synchronization Network (GDSN) 44
Global Location Numbers (GLNs) 44
Global Trade Identification Numbers (GTINs) 44
Gross Domestic Product (GDP) 19
group purchasing organizations (GPOs) 42
GS1 Data Standards 41-42, 44-45, 49, 51, 55

H
Hamilton Health Sciences (HHS) 92, 94
handheld technology application (HTA) 113
Health Care Information Technology Model (HCIT) 145
Health Industry Group Purchasing Association (HIGPA) 45
Health Information Exchange (HIE) 26
health information technology (HIT) 18, 23, 73-74
Health Service Providers (HSP) 23, 26-27
home health care (HHC) 76
Hyperkalemia (HPR) 209
Hypokalemia (HPO) 209

I
information systems (IS) 127-128, 182
intelligence continuum (IC) 116
intensive care units (ICUs) 162, 178
item response theory (IRT) 186

L
length of stay (LOS) 194

M
Materials Management Information Systems (MMIS) 43
methicillin-resistant Staphylococcus aureus (MRSA) 252
metropolitan statistical area (MSA) 77
mHealth 88, 90-99
Minimum Message Length (MML) 196
multilayer perceptrons (MLP) 226
Multiview 3-4, 6, 14-17

N
National Health card project (NHCP) 157
National Health Expenditures (NHE) 18-19
National Home and Hospice Care Survey (NHHCS) 77
network boundary 250, 260-261, 263
neuro-fuzzy function approximation (NEFPROX) 209
neuro-fuzzy inference system (NFIS) 211
Norwegian Centre for Telemedicine (NST) 67

O
Office of Management and Budget (OMB) 78
organizational analysis phase 10
Organization for Economic Cooperation and Development (OECD) 23

P
Parent Management Training-Oregon (PMT-O) 59
Particle Swarm Optimization (PSO) 225, 234
personal digital assistants (PDAs) 90, 112
physician office visit (POV) 138
Picture Archiving and Communication Systems (PACS) 238
pilot studies 41-42, 49-52, 55-56, 117, 165
Point-of-care (POC) 75
primary care physician (PCP) 135
purchase order (PO) 43

Q
quality improvement strategies (QIS) 264
quality of working life (QWL) 163

R
Receiver Operating Characteristic (ROC) 226
Regional Health Authority (RHF) 62
region of interests (ROIs) 220
return on investment (ROI) 152
root mean square error (RMSE) 225

S
social network analysis (SNA) 134, 248, 250
Soft Systems Methodology (SSM) 4
Software Engineering Institute (SEI) 5, 246
Stroke Care Units (SCUs) 193-194
supplier relationship management (SRM) 181
supply chain management (SCM) 146
Supply Chain Operations Reference (SCOR) 145, 158
system development lifecycle (SDLC) 113
Systems Engineering Initiative for Patient Safety (SEIPS) 161, 163
T

technology acceptance model (TAM) 265
Telephone Health Advisory Service (THAS) 10
Transaction cost economics (TCE) 112

U

ubiquitous healthcare information systems (UHIS) 131
Unified Theory of Acceptance and Use of Technology (UTAUT) 265

V

Veterans Affairs (VA) 49
Veterans Health Administration (VHA) 75
Victorian Admitted Episode Dataset (VAED) 195
virtual private networks (VPNs) 90

W

Washington Regional Medical Center (WRMC) 49, 51
web-based survey (WBS) 166
weighted density distribution (WDD) 224