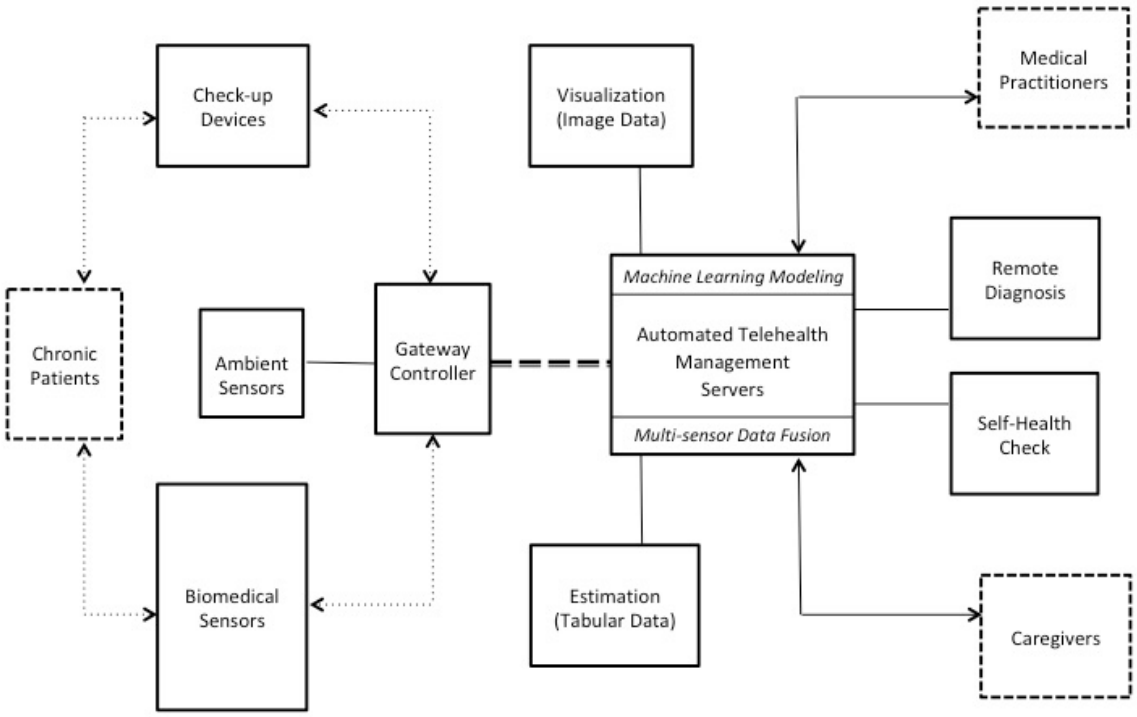

Check-up Devices
Visualization (Image Data)
Medical Practitioners
Chronic Patients
Ambient Sensors
Gateway Controller
Machine Learning Modeling
Automated Telehealth Management Servers
Multi-sensor Data Fusion
Remote Diagnosis
Self-Health Check
Biomedical Sensors
Estimation (Tabular Data)
Caregivers

Fig. 1

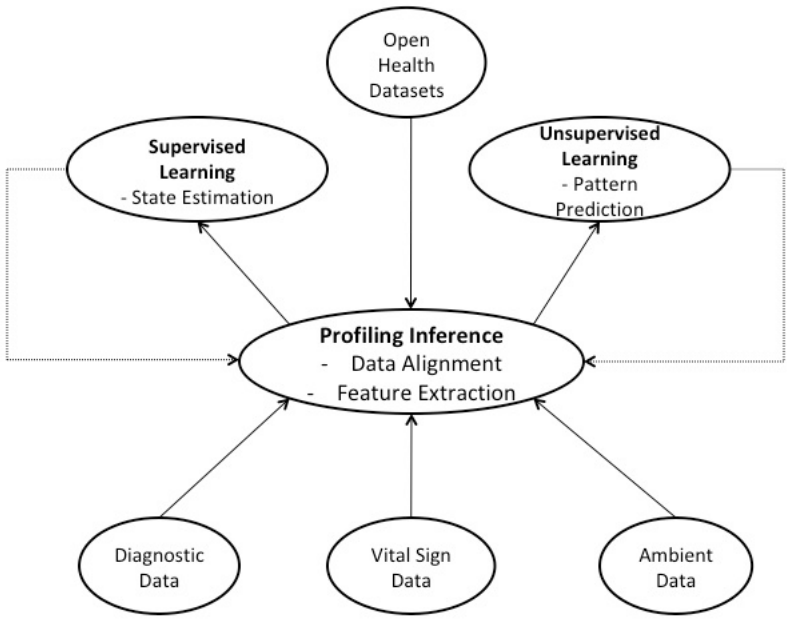

Open Health Datasets
Supervised Learning
- State Estimation
Unsupervised Learning
- Pattern Prediction
Profiling Inference
- Data Alignment
- Feature Extraction
Diagnostic Data
Vital Sign Data
Ambient Data

Fig. 2

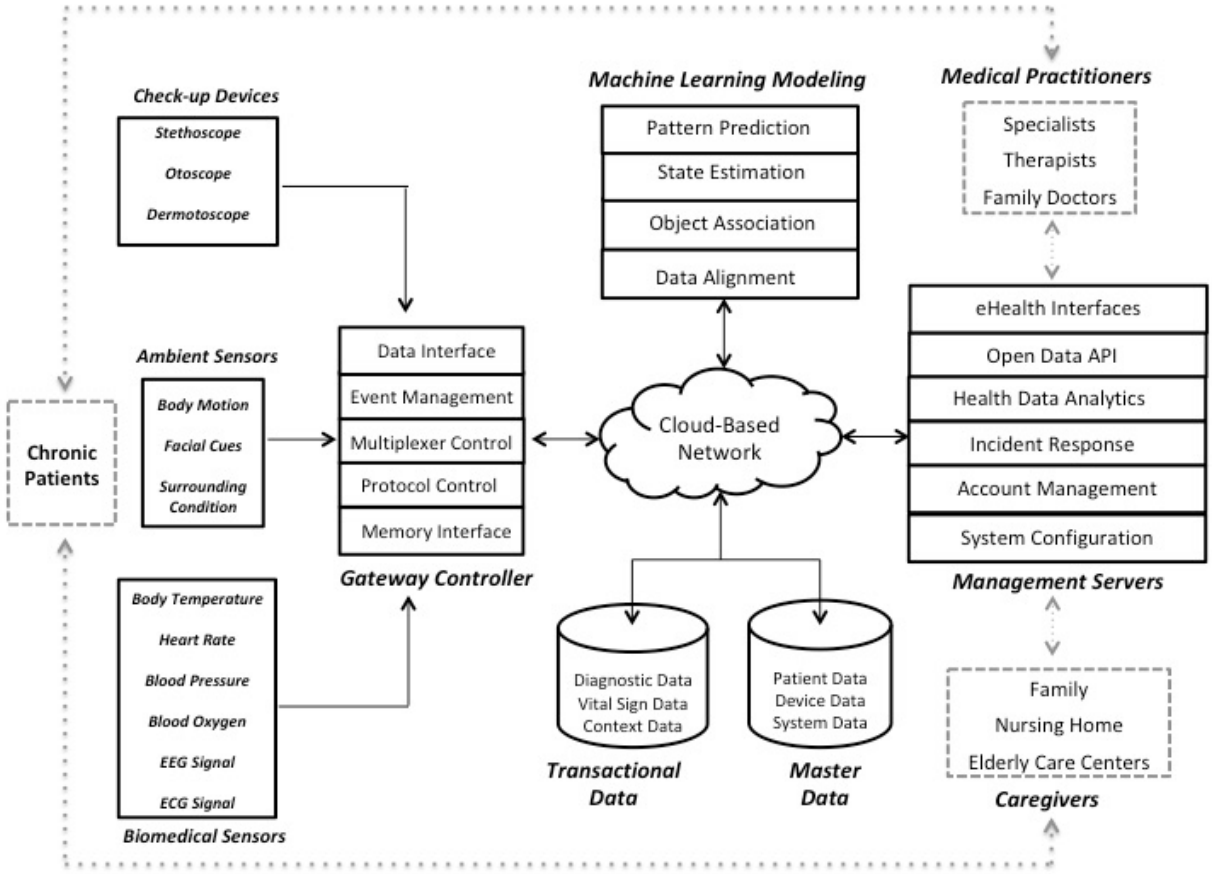

Check-up Devices
Stethoscope
Otoscope
Dermotoscope
Machine Learning Modeling
Pattern Prediction
State Estimation
Object Association
Data Alignment
Medical Practitioners
Specialists
Therapists
Family Doctors
eHealth Interfaces
Open Data API
Health Data Analytics
Incident Response
Account Management
System Configuration
Management Servers
Ambient Sensors
Body Motion
Facial Cues
Surrounding Condition
Chronic Patients
Data Interface
Event Management
Multiplexer Control
Protocol Control
Memory Interface
Gateway Controller
Cloud-Based Network
Body Temperature
Heart Rate
Blood Pressure
Blood Oxygen
EEG Signal
ECG Signal
Biomedical Sensors
Diagnostic Data
Vital Sign Data
Context Data
Transactional Data
Patient Data
Device Data
System Data
Master Data
Family
Nursing Home
Elderly Care Centers
Caregivers

Fig. 3