

Keyword Index Volume 24 (2016)

1064 nm Nd:YAG laser	S11	anonymity	969
16S rRNA gene sequences	S841	anthropometric measures	251
2D representation	S561	antibacterial activities	S841
3-D animation	S231	antibodies	S513
3D model	S357	anti-inflammatory effect	459
405 nm	145	apoptosis	S147
		application	139, 495, 587, 769
abdominal aortic diameter	S569	Archimedean planar spiral antenna	S675
ablation	647	Arduino	S105
abnormal diagnosis	S69	arthroplasty	865
academic stress	889	arthroscopic assisted mini-open approach	359
accelerometer	185, S223	assessment	11
accommodation-vergence linkage	S231	assistive technology	401
acetabulum	281	astable multivibrator	295
acoustic characteristic	S733	attenuation	821
acrylic adhesive	S139	augmentation	745
active rehabilitation	S607	automatic urine disposal	753
acupuncture bio-potentials and impedances	S3	automation	S105
acute leukemia	639		
adaptive radiotherapy	S747	bag of words model	S665
addiction	177	balance	S69
admission care	S401	baseline	S471
adolescents	933	bed sensing	S307
advancement	135	Bell's palsy	287
age	67	benign prostate hyperplasia (BPH)	S487
aged	541	big data	603
aging	S659	bioactive elements	701
airway remodeling	811	bio-heat transfer	S625
alaryngeal speech	201	biological system	S577
alcohol tracker	495	biomechanical features	267
algorithm	591	biophoton	S577
analytic hierarchy process (AHP)	S325	biped robot	S443
analytical model	681	bipolar	647
analytical modeling	483	bipolar transurethral plasma kinetic prostatectomy (TUPKP)	S487
anatomy reconstruction	377	bitcoin	969
aneurysm genesis	317	black PCB	S139
angle	67	bleaching system	153
ankle	391		

blood cell segmentation	335	cervical facet joint	67
blood pump	627	cervical spine	919
Bluetooth	S187	CFD	349
Bluetooth low energy	689	chaotic sequence	S435
body mass index (BMI)	225	chemotherapy	163
body posture	S307	children	11
bone remodelling	S493	chitosan	S505
bowel	471	chlorpyrifos and fenitrothion	S41
brain-computer interface (BCI)	S541	circadian rhythm	795
breast cancer	21	classification	31, 43, 919
breast cancer detection	S757	clinical knowledge management system (CKMS)	S297
breast cancer survival prediction	31	clinical strategy	811
bronchi	73	cloud environment	S123
burdock extract	459	CO2 arthroscopy	957
CA _{5WH} Onto	S49	code modulation	S541
CA125	S163	cognitive reappraisal	S817
cancer classification	S237	color temperature	S271
cancer-related fatigue	163	colorectal cancer	S147
cannulated intramedullary nail	729	colorectal neoplasia	111
capsule endoscopy	471	communication	965
cardiac resynchronization therapy (CRT)	S587	community	S289
cardiac tissue model	S477	compact finite difference	S477
cardiovascular system	317	composite	153
care pathway	S337	comprehensive scores	S465
caregivers burden	769	compressed sensing	S593
caregiving	769	compression force	909
carotid artery stenting	673	compressive load	215
carotid stenosis	673	compressive sensing (CS)	S757
cartilage defect	957	computational fluid dynamics (CFD)	673, S245
cartilage matrix	957	computed tomography	241
cascade control	S113	conductive polymer	S83
case-based reasoning	S261	conductivity	S733
CBCT	S747	contact force	483
CD markers	639	contact lens disinfection	145
cell cycle	S147	contact pressure	483
cell signaling	415	contactless	761
centrifugal microfluidic	S41	continence aids	753
cerebral aneurysm	349	contour propagation	S747
cerebral autoregulation	S195	contrast-enhanced image	S631
cerebral blood flow	673	co-ordinate measuring machine	377
cerebral circulation	317	coronary artery	S455
cerebral vasomotor reactivity	S195	corrosion	241
cerebrovascular conductance index	S195	cost drivers	93
cervical disc arthroplasty	67	cost models	93

cost-minimization analysis	111	disk hernia	267
C-reactive protein	87	dislocation	S171
creatine kinase	87	displacement	761
crisis management	S407	DNA detection	S77
cross-platform	973	DNA extraction	S105
cryogen spray cooling	S11	dose reduce	429
CT	S357, S569	double-sided tape	S139
CT scan	377	drugs trade	969
curvelet	335	dynamic access control	S123
customer satisfaction	S527	dysfunction	241
customized design implants	377	dysuria	S487
customized system	S213, S385, S407		
cyber security	1	ECG	S187
cyber terrorism	1	echocardiography	S587
cyber threats	1	EEG	S551
cybercrime	1	effective connectivity	S795
cytochemistry	639	ehealth	827
		e-health system	591
DACUM method	439	elastic registration	S455
damped harmonic oscillator	S577	elasticity	349
darknet	969	elderly	579
data display	541	elderly people	S325
data glove	S223	elderly population	169
data retrieval	603	electrocardiography interface	S345
data storage	603	electroencephalogram (EEG)	S795
death education curriculum	439	electromagnetic fields	415
deformable image registration	S717, S747	electromyographic activity	S521
degenerative disk disease	713	electromyography	S659
degree of stenosis (DOS)	295	electronic health records	827
delay	S11	EMG amplitude	S533
Delphi technique	S325	EMG frequency	S533
dementia	769, S337	EMIS	889
denoising	S561	empirical mode decomposition	761, S17
density-based k-means clustering method	S817	energy consumption	S849
dental caries	701	energy dissipation	S577
dental porcelain	153	energy expenditure	665
development of a death education	439	energy metabolisms	665
developmental dysplasia	559	epidural injections	551
diabetic cystoid macular edema	S59	epilepsy	795
diagnosis	267, 927, S213	epileptic seizures	43
diagnostic	471	epithelial ovarian cancer	S163
diffusion tensor imaging	S593	error rate	S33
digital image	S435	esophagus defect	S505
digital subtraction angiography	S493	esophagus reconstruction	S505
disc prosthesis	67	exoskeleton	S113

experimental set-up	317	fundamental nursing skills	S369
exposure dose	429	fuzzy C-means	S785
external leg compression	S533	FVM	S827
external threats	1		
		gait analysis	843
facial nerve paralysis	287	gait detection	S69
FARES (Fast Reliable Safe)	81	gait speed	843
fatigue parameters	S231	galvanic coupling	681
FDTD method	S757	galvanic coupling human-body	
feasibility	11	communication	821
feature selection	S601	gambling	177
FEM	S739	gaming	973
femoral fractures	281	gastrointestinal	471
femoral head necrosis	S493	gel documentation system	S77
femoroacetabular impingement	359	gel image analysis	S77
ferric carboxymaltose	111	gene selection	S237
fetal ECG	783, S17	geriatric patient	225
fetal heart rate (FHR)	783, S471	gestational age (GA)	S471
fever	87	gestational diabetes mellitus	S499
fiber characteristics	681	GFR	S631
fibrous cap stresses	S155	GNRs-PEI	S415
fibrous dysplasia	729	GNRs-PEI-folate	S415
field-circuit coupling method	S739	goal directed therapy	899
filterbank	201	goal-directed hand movement	11
finger dexterity	S97	Golay complementary sequences	S541
finite element	483	Golf swing	S261
finite element analysis	865, S155	Google Translate [©]	965
finite-difference-Bioheat equation (FD-BHE) methods	S675	governance	99
fixture design	S131	grading	185
flexible interbody fusion	713	graphical user interface	S179
flow visualization	317	hamiltonian	S577
fluid bottle	S131	hand held echocardiography	309
fluid therapy	899	hand rehabilitation	S97
fluorescence detection test	S139	haptics	S97
fluorescence-array	S41	Haralick features	21
FMECA	873	hardness	701
focused TTE	309	Hausdorff distance	S785
Fontan	627	HE4	S163
fool-proofing	S407	head & neck cancer	S747
force sensing resistor	S307	health education plan	S281
forward problem	S733	health informatics	949
fracture	225	health monitoring	S421
framelet	21	healthcare	135, 579, 973, S213, 281, S307, S385, S407
functional connectivity	S817		

healthcare asset management	121	impedance cardiography	S803
heart attack	S155	implantable	821
heart failure	S587	inconsistencies	949
heart pump	627	independent component analysis	783, S551
heart rate	S777	inertial sensor	S69, S223
heart rate variation (HRV)	S471	infected area	S33
Heart-Gallbladder treatment	S691	infection	367, 571
hemiparesis	513	information flow pattern	S795
hemodynamic parameters	S803	instruments and apparatus	665
hemodynamics	317, 349	intelligent system	S213, S385, S407
hertz's contact theory	483	interface system	S27
heterotopic ossification	87	internal threats	1
hierarchical approach	S59	Internet intervention	177
high risk factors	S465	interoperability	827
hip arthroscopy	957	intervertebral joint	215
hip dislocation	281	intraoperative echocardiography	309
hip joint	957	intravascular ultrasound (IVUS)	S455
hip replacement	729	intravenous (IV) line	S131
HIV/AIDS	S377	iodine radioisotopes	S513
Hoehn and Yahr	185	iPhone application	689
home-based medical caring system	S313	iron deficiency	111
homecare system	S187	iron sucrose	111
hospital asset tracking	121	isometric exercise	853
hospital biobanks	93		
hospital information system	S205	jelly fig achenes	S147
House-Brackmann System	287	joint angles	S521
HRV	43, 795	joint stiffness	853
HTA	873		
human computer interface	401	Kalman filtering	201
human voice assessment	S313	Kanade-Lucas-Tomasi method	287
human walking	S849	key success factors (KSFs)	S297
Human-Body Communication	681	Kinect	251
humidity	943	knee osteoarthritis	853
hybrid differential evolution	S237		
hypertension	57	laboratory developed test	949
		laryngeal plexiform neurofibromatosis	
ICA	S817	type-1	775
illuminance	S271	laryngemphraxis	775
image encryption	S435	laser	607
image misalignment	S455	laser doppler anemometer	317
image processing	S33	laser stimuli	S697
image quality	429	lasting power of attorney	S337
image segmentation	S393	lateral and bilateral upper limb movement	S607
imaging	471	lateralization	43
immunophenotyping	639	learning curve	359

LEGO Mindstorms NXT	579	metabolic syndrome	655, S527
leisure benefits	S289	M-Health	973
leukocyte	335	microarray data	S601
leukocyte classification	335	microcalcification and mass	21
level set method	S767	microfluidic channel	S139
life data analysis	S49	micro-PCR chip	S139
life data monitoring	S49	microscope image analysis	335
lifestyle	57	micro-sensor	S707
linear damping	S683	Microsoft Kinect	599
local-host architecture	S179	microwave imaging	S757
localisation	471	microwave thermotherapy	S675
logistic regression	S499	middleware	827
long-term care (LTC)	S421	Mini Nutritional Assessment (MNA)	225
low rank	S593	mirror effect	S27
lower extremity	503	Mirror Therapy	503
low-frequency high-voltage electric fields	415	mirroring technique	377
low-temperature plasma radiofrequency		Miswak	S841
ablation	775	mitral valve annuloplasty	193
lumbar spinal stenosis	551	mobile applications	591
		mobile health	665
machine learning models	31	mobile phone	57, 139, 587, 769
MAET	S733	mobile technology	S205
magnetic induction hyperthermia	S827	modulation frequency domain	201
magnetic resonance imaging	S641	molecular genetic test	S105
magneto-acoustic tomography	S683	monoclonal	S513
magneto-acousto-electrical tomography	S683	monopolar	647
major abdominal surgery	899	moon mark	S725
malaria	S33	motion analysis	287
malondialdehyde	S651	motion artifact	S455
mammography	21	motion images	S785
maternal ECG	783, S17	motion/annulus	193
mathematical model	317	motor activities	665
MATLAB	579	motor aphasia	S691
maxillofacial surgery	377	motor assessment	S707
measurement	513, 821	motor imagery (MI)	S795
mechanical circulatory assistance	627	MR images	S785
mechanical properties	73	MRI	241
mechanics	865	multiple trauma	281
mechanism design	S271	multivariate adaptive regression splines	S253
medical image classification	S665	multivariate empirical mode decomposition	
medical modelling	377	(MEMD)	783, S795
medical records	969	muscle contraction	S533
medical translation	965	muscle flap	S505
mental health	599	muscle mass	655
Mental Health	889	muscle strength	391

musculoskeletal modeling	215, S659	ovarian cancer	S163
musculoskeletal structure	S443		
myeloma	745	pain intensity	853
myoelectric sensor	S27	pancreatic surgery	899
		parameters optimization	S849
near field focusing lens	523	Parkinson's	S195
network analysis	S377	Parkinson's disease	185
network meta-analysis	S281	partial least squares (PLS)	S205, S297
neural network	267	particle swarm optimization	949, S641
neuro network fuzzy algorithm	S601	passive dynamic walking	S849
neurofibromatosis	775	patients' knowledge	S281
neurological complication	673	PCA	S33
neurology	139	PCR protocol management	S179
Neuromuscular Electrical Stimulation	503	PCR thermal cycler	S179
nitinol stent	S155	peak expiratory flow	S253
nitric oxide	459	pedaling	S659
nitric oxide-cGMP-protein kinase		pediatric circulatory support	627
G pathway	415	pedo-pornography	969
nitrogen plasma jet	943	perception	S697
noise reduction	S313	performance	99
non-invasive	401	periprosthetic joint infection	721
nonnegative matrix factorization	S17	perpendicular arrays	S561
non-operative treatment	551	personalized healthcare	S49, S123
North Schisandra Lignans	S651	PET	S357
NSCLC	S513	PET/CT fusion	S357
numerical simulation	S827	phantom	S675
nursing information system	S401	phantom construction	S717
Nutritional Risk Screening (NRS)	225	pH-cycling	701
		Phenotypic Disease Network (PDN)	S377
obesity	367, 933	photoplethysmography (PPG)	S777
ontological concept	S49, S123	photothermal therapy	607, S415
ontology	S261	phylogenetic analysis	S841
open service platform	S261	physical activity	665
optic disc localization	S767	physical fitness	S213, S385, S407
optic disc segmentation	S767	physical performance	163
optical coherence tomography	S59	PID control	S443
optical flow	287	piezoelectricity	241
optoelectronic motion analysis	73	PIV	349
oral cavity pathogens	S841	PJI	721
organizational structure	93	plasma	943
organophosphorus measurement	S41	plasma jet	943
orthopaedics	865	PLSA	S665
osteoid osteoma	957	pluse-contour-automated-analysis	899
OTs	99	pneumatic artificial muscles	S443
outcome	367, 737	pocket-sized echocardiography device	309

polydimethylsiloxane (PDMS)	909	real-time location system	689
polymerase chain reaction	S139	reduction	81
porphyrin	145	region of interest (ROI)	S393
positive pole	295	regulation	969
positron emission tomography (PET)	S393	rehabilitation	139, 169, 599, S707
postoperative cystoid macular edema	S59	rehabilitation interface	S607
postpartum hemorrhage	S465	reliability	513
posture recognition	S307	remineralization	701
prediction	795	remote sensing technology	541
prescription	S213, S385	renal function	S631
pressure	241	renography	S631
pressure sensor	909	reproducing kernel	S477
preventive treatment	S811	repurchase intention	447
privacy protection	S123	resonant coupling	S739
professional growth	S325	respiration rate	591, 761
projection distance	S271	retina	607
Prolate Spheroidal Impulse Radiating Antenna	523	retinal images	S767
pronation	391	retinal layer	S59
proprioceptive exercises	853	retrograde forceps	927
prosthetic joint infections	927	revised high-heeled shoes	S521
protein supplements	447	RF-TVA	745
PSD (posterior shoulder dislocation)	81	RGB LEDs color mixing	S271
psychiatry	587, 599	rigid registration	S455
psychomotor consequences of fall	169	risk	S569
psychomotor performance	665	risk factor	721, 737, S499
pulse diagnosis	S83	risk of ovarian malignancy algorithm	S163
pulse laser	S697	robotic surgery	873
pulse wave velocity (PWV)	S83	ROS	S147
PVC	S717	rotary blood pump	627
		RTL5	121
Qualisys	251	safety	S131
quality of experience	S261	<i>Salvadora persica</i>	S841
quantitative assessment	185	SAR	S739
quantum dots	S77	sarcopenia	655
quantum-behaved PSO	S641	satisfaction	S401
		satisfaction level	447
radiation therapy	87	scanning elastic electrodes	S3
radio frequency identification (RFID)	S421	scheduling of execution	S385
radiofrequency	647	screw placement accuracy	919
radioimmunotherapy	S513	segmentation	S785
reachable workspace	513	self-efficacy	S369
reader	S421	self-monitoring	S49
real time locating system	121	SEM	153
real time tracking	S725	semi-distributed architecture	827

sensitivity	S163	Subjective Global Assessment (SGA)	225
sensor	139, 241, 599	subnanosecond electric pulse	523
sepsis	87	subtalar joint angle	391
Series Elastic Actuator (SEA)	S113	subtrochanteric femoral fracture	729
short stem	559	superoxide dismutase	S651
sign language recognition	S223	supination	391
signal separation	783	support vector machine	43, S551
silhouette statistics	S237	surface properties	153
simulation-based learning	S369	surgical site infection	S811
Singapore	177	suture	73
single channel blind source separation	S17	synthesis/analysis	201
single ventricle physiology	627	system integration	827
single-lead ECG	591	systems biology	811
siRNA delivery	S415		
sitting	215	tag	S421
skin erythema	753	Tai Chi Chuan	S289
skin temperature	S11	technology	135
skin temperature simulation	S697	technology acceptance model	S205
smart bracelet devices	163	Telehealth	665
smart wheelchairs	S345	telehealth expenditure	S527
smartphone	139, 495, 587, 769, 973, S777	telehealth system	S527
smoking	737	telemedicine	665
SMS	57	temperature	S171
Sobel	S569	tensile test	73
spacer	571	tension band wiring	909
sparsity constraint	S593	thermal ablation	S625
spatio-temporal gait parameters	843	three-dimensional deformable phantom	S717
specificity	S163	threshold	795, S33
spinal cord injury	87	Ti-13Zr-13Nb biomedical alloy	S171
spinal metastases	647	time constant	295
Spine Tango	551	time density curve	S631
spirometry	S253	Timocco	11
spondylodesis	737, 919	tissue thermal damage	S625, S827
spondylolisthesis	267	tissue thermo-mechanical behaviors	S625
spurt	S11	tongue acupuncture	S691
standing	215, S521	tongue drive system	401
stenosis	S245	Top-hat	S569
stent	S505	TOR	969
sterilization	943	torque control	S113
strain rate effect	S171	total hip arthroplasty	559, 721, 927
strength ratio	391	total hip replacement	865
stress management	889	total knee arthroplasty (TKA)	367, 571
stress stimulators	889	Traditional Chinese Medicine	S725
stroke	139, 503, 513, 599, S691, S707	transverse vibration pressure (TVP)	295
stroke survivors	599	treatment algorithms	587

tremor	185	visible irradiation	145
triage	761	visible light communication	135
tumor	607	visual evoked potential (VEP)	S541
tumor marker	S163	visual fatigue	S231
two-dimensional	S477	visually impaired	579
two-stage revision	571	vitreous	607
		vulnerable plaque	S155
ultra wide band antenna	523		
ultrasonics	S561	wall shear stress	349
ultrasonography	S487	water filter	429
upper limb rehabilitation	S607	wave equation of mass point vibration	
upper-limb	S707	velocity	S683
urban poor	57	wavelet energy	S641
urinary incontinence	753	wavelet transform	S803
user perspectives	495	wavelet transformation	S393
UV illuminator	S77	wavelet-packet	S551
		wavelets	S561
validity	513	wearable rubber glove	S3
vascular access dysfunction	S245	weight control behaviors	933
vascular compartment segmentation	S631	well-being	S289
vascular endothelial cell	S651	Wi-Fi module	S345
ventricular dyssynchrony	S587	wireless health monitor	S3
vertebral fracture	745	wireless power transfer	S739
vibrotactile feedback	S97	wireless sensors	843
violet LED	145	word-of-mouth intention	447
virtual reality	11, S97	wrist rehabilitation robot	S27
virtual reality training	169		