

## Keyword Index Volume 23 (2015)

3D C-arm	171	atherosclerosis	539, S95
3D reconstruction	37	augmented reality	381
		auxetic	819
a short-time Fourier transform	S211		
abdominal aorta aneurysm	37	bariatric psycho-social care	737
accelerometer	179, 691, 835	bariatric surgery	729
ACI	531	Bayesian model	S3
acoustic sensor	715	Bayesian Network	S37, S161
acute appendicitis	S559	bio-artificial liver	S365
additive principals	S511	bioimage processing	S151
adhesion	205	bio-inspired functional surface	205
adiponectin	S95	biomechanical	453
agent	S397	biomechanics	485
aldehyde dehydrogenase (ALDH)	S49	biomechanics model	S567
alpha angle of Nötzli	75	biomimetic	205
ALT	S365	bionic vortex flow	S443
Alvarado clinical scoring system	S559	biostimulation	S535
ambulatory ECG	S335	blood flow simulation	S43
amino acid	S29	blood oxygen saturation	S285
anaplastic thyroid cancer	S89	blood pressure oscillation pattern	S211
android smartphone	S435	blood vessel phantom model	S301
anesthesia induction	685	blunt chest trauma	63
aneurysm	S43	body weight support	S355
ankle fracture	215	bone drilling	223, 775
ankle stability	627	bone fracture	819
ANSYS	S365	bone joint	715
ant colony optimization	605	bone plate	83, 819
anterior cruciate ligament	485	BP neural network tuned PID	S231
anticancer	S21	brain activity	S427
antioxidant	S21	brain imaging	S615
aorta-renal ostium	539	brain MRI	571
apoptosis	S89	brain protocol	S465
applications	411	brain white matter	S3
artery segmentation	557	breast cancer	109, 153, 757, S105
arthroplasty	809	breast lesion	293
artificial neural network	S559	breast thermography	429
assistive technology	745		

cable driven	S197	constant current	475
calcaneotibial transfixation	215	constant voltage	475
cannulated screws	653	construction method	S161
cardiovascular	S419	control treatment	S77
cardiovascular disease	S211	coronary artery	S223
cardiovascular system	S481	coronary heart disease	S95, S147
cartilage	403	cost effectiveness	809
cartilage defect	205	coupling relationship	S481
cartilage regeneration	205	crackles	S489
cartilage repair	531	crossed pinning	453
cascade position controller	S231	cross-over design	S543
case reports	S99	crowbar effect technique	S223
catheter	S301	CT-guided satellite ganglion block	S105
causal interpolation	S239	curvelet transform	S319
CBT	737	cylindrical coordinates	557
cell micro-operation	S551		
cell-free	403	$d_{33}$ coupling	47
cell-free implant	205	data mining	699, 757
cellular automata	S71, S603	data preprocessing	153
cerebral aneurysm	547	decision support system	419
cerebral circulation	S77	decision-theoretic model	S37
charge amplifier	S551	decomposition methodology of conception	S15
Chinese acupuncture	S77	defined trajectory	653
chronic bronchitis	699	delirium	411
chronic disease management	729	denoising	429
chronic total occlusion	S223	design optimization	547
ciphertext security	S133	detrended fluctuation analysis	S435
circular friction hand massage	S529	developmental methods	411
classification	571, S501	diabetic foot	47, 785
clinical	411	diagnostic expert system	S37, S55
clinical management	729	diagnostic performance	S293
clinical scoring system	S559	diet	881
cognitive aids	745	dorsal stream	S593
cognitive intervention	745	drilling torque	223
coherence	715	driver fatigue detecting	S453
cold-active lipase	S109	dual-mode	S277
color combination	S511	dural sac volume determination	645
color information	S511	dynein	S577
color space	S511		
combined-channel	S325	ECG	S481
complications	659	ECG series	S501
computational fluid dynamics	547, S443	education	119, 411
computed tomography	37	EEG power	S427
computer-aided diagnosis	S411	EEG-based brain-computer interface (BCI)	S249
computer-assisted image processing	757	e-Health	509, 809

elastic deformation	653	femoroacetabular impingement (FAI)	75
e-learning	S157	Fibre-Bragg grating (FBG)	785
e-learning effectiveness	S157	financial sustainability	S15
e-learning satisfaction	S157	finger pressure	S529
electrical stimulation	475	finite element analysis	83, S61
electrocardiogram	S435	finite element method	223, S577
electroencephalography (EEG)	S427, S465	finite element modeling	S43
electromyography	S495	firearm wound	S61
Electronic Health Record (EHR)	381, 509	flow diverter stent	547
electronic medical records	S139	fMRI	S593
EMD	S481	follicular fluid	S29
emergency department	419	fracture fragment	653
empirical modeling	S231	fracture repair	463
endoscopic third ventriculostomy	667	frequency response	715
epidural injections	871	functional electrical stimulation	443
epileptic seizures detection	S151	fuzzy clustering	571
<i>Epimedium</i>	S9	Fuzzy C-means	23, S519
epson moverio	381	fuzzy mathematics	S127
ergonomics experiment	S373		
essential drugs policy	S169	Gabor filters	591
essential oil	S21	gait analysis	S355
estrogen	S29	gait parameter	S567
evaluation indicators	S169	gait properties	179
evidence reasoning	S161	Garlic-derived compound	
evolution game	S71, S603	S-allylmercaptocysteine	S89
evolutionarily stable strategy	S71, S603	gene cloning	S109
exercise	S543	genioglossus muscle	S495
experimental analysis	775	geometric model	S587
experimental atherosclerosis	557	glenoid bone grafting	855
exposure	581	glenoid bone loss	855
expression	S109	glenoid defect	855
external fixator	453	glottal space	591
externally damping	S179	glucose transporter	S311
eyes detecting and locating	S453	Glut-1	S311
		Glut-3	S311
factorial design	129	goniometer	75
falls	195	google glass	381
false positive	S99	gradient predictor	S239
FastICA	S325	graph theory	S3
fat suppression	S587	gravity balanced mechanism	S197
fatigue	S373	Greece	495
FBG	47	grey level information	571
FDG	S311	guide wire	S301
FE modelling	775		
feature extraction	23, S249, S343	handgrip force	S427

hazards	1	internal fixation	819
head excursion	691	internal fracture fixation	83
heads-up-display	381	inter-phase interval	475
health	1, 495	interventions	119
health care	S161	intracranial aneurysm	9
health system reforms	103	intracranial tumors	667
healthcare	809	intuitionistic fuzzy set theory	S397
heart rate monitoring	S277	inverse dynamization	463
hemodynamic assessment	S83	IS success model	S157
heterologous expression	S49		
Hilbert-Huang transform	S249	KFCM algorithm	699
hind foot anatomy	215	kicking leg	93
hind foot radiographs	215	Kinect system	75
hip osteoarthritis	847	kinematics	143
hippocampus	S465	kinesthetic illusion	129
histomorphometry	557	kinetic therapy	63
human immunodeficiency virus	S99	King classification	S411
human joint angle	S473	knee joint	715
human walking with load carriage	S567	knowledge acquisition	S55
humerus	83	Korotkoff sound delay time	S419
hydrocephalus	667	kurtosis feature	S325
hypertension	119, 881		
hysterical blindness EEG	S325	landing	S179
		laser-tissue interaction	S535
image compression	S239	lateral collateral ligament	485
image enhancement	S319	lattice Boltzmann method	547
image processing	S343	left ventricular assist device	S443
image segmentation	571	level sets	429
impact excitation method	715	light emitting diode	S511
impalement oral injury	685	light-response curve	S9
IMT	S147	ligustrazine	S83
incomplete data	619	liquid chromatography coupled with tandem mass spectrometry (LCMS/MS)	S29
increased hip alpha angle	93	load experiment	S567
independent component analysis	S495	long-term memory	S465
induction heating	S203	low-power	S277
inflow rate	9	Lp-PLA2	S147
information success model	S189	lumbar flexion and extension	645
injury	637	lumbar spinal canal stenosis	645
innovation design	S269	lumbar spinal stenosis	871
in-sole	785	lumbar spine	847, S383
instance selection	153, 619	lung sounds	S489
integrated community-based telehealth	S189		
intelligent medical diagnosis	S397	machine-based strength training	627
intelligent textiles	675	magnetic hyperthermia	S203
internal carotid artery	S43		

magnetic nanoparticles	S203	multiple receivers	S133
mammography	757	multiple trauma	63
management	1, 119, 411	multi-recipient re-encryption	S139
marketing	495	multi-resolution analysis	S319
mathematical model	S373	muscle activity	627, S179
mathematical morphology	S489	muscle force	475
matrix metalloproteinases-9	S95		
maximal voluntary contractions (MVC)	S427	National Free Health Care	S15
Mckibben muscles	S231	neck movement	691
measurement	691	needle recovering	523
mechanical stress	83	needle-stick	523
medial collateral ligament	485	needling instrument	523
medical data mining	153, 619	neglect	795
medical diagnosis	S519	neural network	S151
medical equipment	S269	neuroendoscope	667
medical information	699	neuropsychological assessment	795
medical information sharing	S133	neurorehabilitation	143
medical information system	S127	nickel-titanium	463
medical knowledge	S397	noninvasive measurement	S419
medical treatment	523	nonlinear model	S77, S83
mediopatellofemoral ligament (MPFL)	659	nonlinearity	S151
meniscus	403	non-operative treatment	871
mental task of relaxation-meditation	S249	non-small cell lung cancer	S311
mental task of tension-imagination	S249	nursing home	195
metabolic syndrome	161		
Meta-Pro spaceglasses	381	OATS	531
micro force sensor	S551	obesity	729
micro-CT	557	obfuscator	S139
miR-29	S119	Occupational Safety and Health Management System	1
missing value imputation	619	omarthrosis	855
mixing efficiency	S365	one-pass	S239
mobile healthcare	S435	online interventions	737
mobile healthcare technologies	103	operating room management	605
mobile phones	411, 729	operation cost	605
modified exponential model	S9	optical goniometer	S473
mortality	195	optimal procurement model	S127
mosaicplasty	531	optimization	757
motion	S383	orthopaedic	775
motion analysis	S529	orthopedics	223
motion artifact	S285	oscillatory shear index	9
movement illusion	129	osteocondral defect	531
MR thermometry	S587	outcome	63
MRI brain tumor	23		
multi-agent simulation	S71, S603	parent artery expansion	9
multimorbidity	S161		

Parkinson's disease	179	privacy-preserving	S139
particle image velocimetry	539, S443	prompting technology	745
patellofemoral instability	659	protein homology	153
Patient-Centered Medicine	509	<i>Pseudomonas</i>	S109
pattern classification	S249	psychiatry	737
pediatric	453	pulmonary fibrosis	S119
peg length	855	PVA-H	S301
pelvic control	S355	PVDF	S551
pelvic parameters	847	PW	S481
PERCLOS	S453	PZT	47
percutaneous coronary intervention	S223		
personal health record services	S139	QBI	S3
personal health systems	S543	QRS complex detection	S335
Personalized Medicine	509	quantitative analysis	S293
pET30b(+)-aldh vector	S49		
photomechanical effect	S535	radiograph	S411
physiological loadings	S383	random forest	419
PI3K-AKT	S119	randomized resampling	419
piecewise geometric analysis	S335	range of motion (ROM)	75, S473
pig head	S61	rare disease	109
pig skin	715	recoil pressure	S535
pin breakage	653	recombination	S109
planar coil	S203	region segmentation	S343
plantar pressure	47, 93, 785	rehabilitation	S197, S473
plasma	S29	reliability	691
plate osteosynthesis	463	renal-to-aorta flow ratio	539
polyhedron geometry	S615	repair	403
polymeric	819	replicator dynamics equations	S71, S603
position sensitive detector	S473	respiratory cilia	S577
positron emission tomography (PET)	S615	reversed shoulder arthroplasty	855
posterior cruciate ligament	485	rib shear	685
Postmastectomy pain	S105	Riesz transform	429
posttraumatic complications	63	rigid fixation	819
power abortion	S203	risk factors	195, 637
PPG	S285	rough set	S55
pressure	47, 785	rule induction	S55
pressure monitoring pad	785		
prevalence	637	safety	1
prevention	637	sagittal alignment	847
PRFS	S587	sagittal balance	871
primary headache	S519	salt	881
primary health care	161	SAR-ADC	S277
primary health care system	S169	scaffold	403
primary stability	855	scientific controversies	103
principal component analysis	591	scoliosis	S411

screw trajectory	653	stroke	143, 443, S355
searchable encryption	S133	subtalar joint	627
sedentary behavior	835	success rate	S223
segmentation	23, 429	supracondylar fracture	453
segments	S501	supraspinatus tendon	S263
self-diagnostic	S435	surgery scheduling	605
self-management	S543	surgical instrument	667
self-report	835	symbolic	S501
sensing technology	S397	systemic lupus erythematosus	S99
sensors	47		
separated flow region	539	tablet	795
sequential diagnosis	S37	technology	1, 119, 411, 729
shape memory alloy	463	telemedicine	161, 381, 809
shear wave elastography	S293	telerehabilitation	S543
sheep model	463	textile industry	1
Shenmu County	S15	textitSelaginella doederleinii Hieron	S21
short time Fourier transform (STFT)	715	TGF $\beta$ 1	S119
shoulder imaging	171	thermal necrosis	775
shoulder surgery	171	thermoelastic effect	S535
shoulder trauma	171	thrust force	223
signal processing	179, S465	tissue engineering	403
SIS evolution	S71, S603	total hip arthroplasty	847
smart glasses	381	total shoulder arthroplasty	855
smartphone	411, 729, 737	traceability	S301
smartphone applications	729	tractography	S3
soccer players	93	translational medicine	109
social anxiety	581	transmural pressure	S419
social media	495	transparent sheath	667
social networking	495	trapdoor security	S133
social networks	495	treadmill training	443
social phobia	581	tree frog	205
sodium meter	881	trend features	S501
soft tissue vibrations	S179	TRIZ	S269
spatial information	571	type A	S211
spectrogram	S489	type D personality	S211
spinopelvic parameters	871		
spO <sub>2</sub>	S285	ubiquitous cardiac care	S335
stainless steel fibers	675	ultrasonic scalpel	685
standing leg	93	ultrasound elastography	S263
statistical graph	S593	ultrasound imaging	443
statistical graph with text	S593	ultrastructure	S577
stent	9	uncertain demand	S127
strength curves	627	unmet clinical needs	109
stress/strain	S383	UOFC algorithm	23
stroboscope	591	upper extremity	143

upper limb exoskeleton	S197	visual attention allocation	S373
urea	S365	vocal folds	591
urinary sodium	881	volleyball	637
validity	835	walking	93
vein recognition	S343	wall shear stress	9
ventral stream	S593	wavelet transform	S319
vertebral artery stenosis	S83	wavelets	S489
vibration illusion	129	wearable healthcare system	S277
virtual navigation	S263	wireless capsule endoscopy (WCE)	S239
virtual reality	581, 795, S355	woven fabrics	675