

4th International Conference on

Digital Health

March 15, 2022 | Webinar

Scientific Tracks



Scientific Program

Digital Health 2022

09:30-10:00 Registrations

Opening Ceremony | Introduction

10:00-10:15

Sessions:

Telemedicine and Telehealth | Digital Health Technologies | Clinical Research & Clinical Trials | Bio Medical Informatics | Artificial Intelligence and Digital Health | e-health

- 10:15 - 10:45 **Title: Digital Health Technologies and its acceleration through Innovation Networks**
Cristina Magdalena Paez Aviles, Polytechnic University of Catalonia, Spain
- 10:45 - 11:15 **Title: Tele-Practice Model for Treatment of Aphasia: A Single Case Study**
Yashaswini Rangaswamy, University of Mysore, India
- 11:15 - 11:45 **Title: ARTHUR-3D Dentofacial Surgery Full Planning**
Miguel Oliveira, University of Aveiro, Portugal
- 11:45 - 12:15 **Title: Tele-Speech Language Pathology in India**
Yashaswini Rangaswamy, University of Mysore, India
- 12:15 - 12:45 **Title: Evaluation of the usability of an application about Parkinson's Disease**
Naira R bia Rodrigues Pereira, University of Bras lia, Brazil

Keynote Forum

- 12:45-13:15 **Title: VK Digital Health Expands Telehealth Capabilities while Reducing Healthcare Costs**
Charles E. Nahabedian, VK Digital Health, USA
- 13:15 - 13:45 **Title: Narrowing the care gaps or widening the digital divide? – An American rural population health perspective**
Chandra Lingisetty, Harvard University, USA

Sessions: Digital Transformation | Bioinformatics and Digital Health | Bio Medical Informatics | Blockchain Technology | m-health | e-health

- 13:45 - 14:15 **Title: Health data integrity and interoperability**
Dean Rakic, Chief Scientist at TAAL, Switzerland
- 14:15 - 14:45 **Title: Developing Digital Twins to improve patient outcomes**
Mohamed A. Rehman, Johns Hopkins School of Medicine, USA
- 14:45 - 15:15 **Title: Digital Transformation of Healthcare by Artificial Intelligence in Sectors of Textile Industries in Egypt**
Elsayed Ahmed Elnashar, Kaferelsheikh University, Egypt
- 15:15 - 15:45 **Title: The Perioperative Human Digital Twin**
Mohamed A. Rehman, Johns Hopkins School of medicine, USA

Panel Discussion (15:45 - 16:15)

Closing Ceremony

List of Open Access Journals

Agri, Food & Aqua

Advances in Crop Science and Technology	2329-8863
Advances in Dairy Research	2329-888X
Agrotechnology	2168-9881
Aquaculture Research & Development	2155-9546
Arabidopsis C. Elegans and Zebrafish	-
Biofertilizers & Biopesticides	2155-6202
Crop Research	2454-1761
Experimental Food Chemistry	-
Fisheries & Livestock Production	2332-2608
Fisheries and Aquaculture Journal	2150-3508
Fisherinessciences	1307-234X
Food & Industrial Microbiology	-
Food & Nutritional Disorders	2324-9323
Food Processing & Technology	2157-7110
Food: Microbiology, Safety & Hygiene	-
Forest Research	2168-9776
Horticulture	2376-0354
International Biodiversity, Bioprospecting and Development	2376-0214
Marine Science: Research & Development	2155-9910
Medicinal & Aromatic Plants	2167-0412
Nutrition & Food Sciences	2155-9600
Plant Pathology & Microbiology	2157-7471
Poultry, Fisheries & Wildlife Sciences	2375-446X
Probiotics & Health	2329-8901
Research & Reviews: Journal of Agriculture and Allied Sciences	2347-226X
Research & Reviews: Journal of Food and Dairy Technology	2321-6204
Rice Research	2375-4338
Traditional Medicine and Clinical Naturopathy (Homeopathy & Ayurvedic Medicine-2167-1206)	-

Business & Management

Accounting & Marketing	2168-9601
Arabian Journal of Business and Management Review	2223-5833
Business & Financial Affairs	2167-0234
Business & Hotel Management	2324-9129
Business and Economics Journal	2151-6219
Defense Studies & Resource Management	2324-9314
Entrepreneurship & Organization Management	2169-026X
Global Economics	2375-4389
Hotel & Business Management	2169-0286
International Journal of Accounting Research	-
International Journal of Economics and Management Science	2162-6359
Internet Banking & Commerce	1204-5357
Review of Public Administration and Management	2315-7844
Stock & Forex Trading	2168-9458
Tourism & Hospitality	2167-0269

Chemical Engineering

Advanced Chemical Engineering	2090-4568
Bioprocessing & Biotechniques	2155-9821
Chemical Engineering & Process Technology	2157-7048
Thermodynamics & Catalysis	2157-7544

Chemistry

Analytical & Bioanalytical Techniques	2155-9872
Analytical & Electrochemical Insights	-
Bioenergetics: Open Access	2167-7662
Chemical Informatics	-
Chemical Sciences Journal	2150-3494
Chromatography & Separation Techniques	2157-7064
Clinical & Medical Biochemistry: Open Access	-
Clinical Chemistry: Open Access	-
Environmental & Analytical Toxicology	2161-0525
Environmental Analytical Chemistry	-
Glycobiology	2168-958X
Herbal Medicine: Open Access	-

Immuno Chemistry: Open Access	-
Industrial Chemistry: Open Access	-
International Journal of Applied Biology and Pharmaceutical Technology	0976-4550
International Journal of Drug Development & Research	0975-9344
Mass Spectrometry: Open Access	-
Medicinal Chemistry	2161-0444
Modern Chemistry & Applications	2329-6798
Natural Products Chemistry & Research Journal	2329-6836
Neuro Chemistry: Open Access	-
Organic & Inorganic Chemistry	-
Organic Chemistry: Current Research	2161-0401
Pharmaceutical Analytical Chemistry: Open Access	-
Physical Chemistry & Biophysics	2161-0398
RROIJ: Medicinal Chemistry	-
Structural Chemistry & Crystallography Communication	-
Trends in Green Chemistry	-
Vitamins & Minerals	2376-1318

Clinical

Ageing Science	2329-8847
Ancient Diseases & Preventive Remedies	2329-8731
Anesthesia & Clinical Research	2155-6148
Annals of Clinical and Laboratory Research	2386-5180
Arrhythmia: Open Access	-
Atherosclerosis: Open Access	-
Cell Biology: Research & Therapy	2324-9293
Cellular & Molecular Pathology	-
Clinical & Experimental Cardiology	2155-9880
Clinical & Experimental Dermatology Research	2155-9554
Clinical & Experimental Nephrology	-
Clinical & Experimental Oncology	2324-9110
Clinical & Experimental Ophthalmology	2155-9570
Clinical & Experimental Orthopaedics	-
Clinical & Experimental Pathology	2161-0681
Clinical & Molecular Endocrinology	-
Clinical and Experimental Psychology	-
Clinical and Experimental Transplantation	-
Clinical Case Reports	2165-7920
Clinical Depression	-
Clinical Dermatology Research Journal	-
Clinical Diabetes & Practice	-
Clinical Nutrition & Dietetics	-
Clinical Oncology and Practice	-
Clinical Pediatrics	-
Clinical Pediatrics & Dermatology	-
Clinical Psychiatry	-
Clinical Research & Bioethics	2155-9627
Clinical Research On Foot & Ankle	2329-910X
Clinical Respiratory: Open Access	-
Clinical Toxicology	2161-0495
Clinical Trials	2167-0870
Clinics in Mother and Child Health	2090-7214
Cosmetology & Orofacial Surgery	-
Cosmetology & Trichology	-
Dermatitis	-
Diabetes Case Reports	-
Dialysis and Clinical Practice	-
Drug Intoxication & Detoxification : Novel Approaches	2327-4557
Dual Diagnosis: Open Access	-
Eye & Cataract Refractive Surgery	-
Forensic Toxicology & Pharmacology	2325-9841
Glaucoma: Open Access	-
HIV & Retro Virus	-
Immunooncology	-
Insights in Pediatric Cardiology	-

Intensive and Critical Care	-
International Journal of Anesthesiology & Pain Medicine	-
International Journal of Cardiovascular Research	2324-8602
International Journal of Digestive Diseases	-
International Journal of Ophthalmic Pathology	2324-8599
Interventional Cardiology: Open Access	-
JBR Journal of Clinical Diagnosis and Research	2376-0311
Optometry: Open Access	-
Phonetics & Audiology	-
Speech Pathology & Therapy	-
Stem Cell Research & Therapy	2157-7633
Toxicology: Open Access	-
Vasculitis	-

Earth & Environmental Sciences

Advances in Recycling	-
Astrobiology & Outreach	2332-2519
Biodiversity & Endangered Species	2332-2543
Biodiversity Management & Forestry	2327-4417
Bioremediation & Biodegradation	2155-6199
Biosafety	2167-0331
Climatology & Weather Forecasting	2332-2594
Coastal Zone Management	-
Earth Science & Climatic Change	2157-7617
Ecosystem & Ecography	2157-7625
Entomology, Ornithology & Herpetology	2161-0983
Expert Opinion On Environmental Biology	2325-9655
Fundamentals of Renewable Energy and Applications	2090-4541
Geography & Natural Disasters	2167-0587
Geoinformatics & Geostatistics: An Overview	2327-4581
Geology & Geosciences	2329-6577
Geophysics & Remote Sensing	2169-0049
Hydrogeology & Hydrologic Engineering	2325-9647
Hydrology: Current Research	2157-7587
Industrial Pollution Control	-
Innovative Energy Policies	2090-5009
International Journal of Evolution	2324-8548
International Journal of Waste Resources	2252-5211
Marine Biology & Oceanography	2324-8661
Oceanography: Open Access	2332-2632
Oil & Gas: Open Access	-
Petroleum & Environmental Engineering	2157-7463
Plant Physiology & Pathology	2329-955X
Pollution Effects & Control	2375-4397
Research & Reviews: Journal of Ecology and Environmental Sciences	-

EEE

Electrical & Electronic Systems	2332-0796
Electrical Engineering & Electronic Technology	2325-9833

Engineering

Advances in Automobile Engineering	2167-7670
Advances in Robotics & Automation	2168-9695
Aeronautics & Aerospace Engineering	2168-9792
Applied Bioinformatics & Computational Biology	2329-9533
Applied Mechanical Engineering	2168-9873
Architectural Engineering Technology	2168-9717
Automatic Control of Physiological State and Function	2090-5092
Biochips & Tissue Chips	2153-0777
Bioengineering & Biomedical Science	2155-9538
Biomusical Engineering	2090-2719
Biosensors & Bioelectronics	2155-6210
Biosensors Journal	2090-4967
Civil & Environmental Engineering	2165-784X
Computer Engineering & Information Technology	2324-9307
Computer Engineering and Information Technology	2324-9307
Defense Management	2167-0374
Fashion Technology & Textile Engineering	2329-9568
Global Journal of Technology and Optimization	2229-8711
Global Research in Computer Science	2229-371X
Industrial Engineering & Management	2169-0316
Information Technology & Software Engineering	2165-7866

International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2278-8875
International Journal of Advancements in Technology	0976-4860
International Journal of Biomedical Data Mining	2090-4924
International Journal of Innovative Research in Computer and Communication Engineering	2278-1021
International Journal of Innovative Research in Science, Engineering and Technology	2319-8753
International Journal of Sensor Networks and Data Communications	2090-4886
International Journal of Swarm Intelligence and Evolutionary Computation	2090-4908
Irrigation & Drainage Systems Engineering	2168-9768
Lasers, Optics & Photonics	-
Lovotics	2090-9888
Membrane Science & Technology	2155-9589
Molecular Imaging & Dynamics	2155-9937
Nuclear Energy Science & Power Generation Technology	2325-9809
Research & Reviews: Journal of Engineering and Technology	2319-9873
Steel Structures & Construction	-
Telecommunications System & Management	2167-0919
Textile Science & Engineering	2165-8064

General Science

Computer Science & Systems Biology Journal	0974-7230
Ergonomics	2165-7556
Research and Development	-
International Journal of Advance Innovations, Thoughts & Ideas	2277-1891
Metrology	-
Research & Reviews: Journal of Botanical Sciences	2320-0189
Research & Reviews: Journal of Chemistry	2319-9849
Tomography	-

Genetics & Molecular Biology

Advanced Techniques in Biology & Medicine	2379-1764
Advancements in Genetic Engineering	2169-0111
Advances in Molecular Diagnostics	-
Biochemistry & Analytical Biochemistry	2161-1009
Biochemistry & Molecular Biology Journal	-
Biochemistry & Physiology	2329-9029
Biological Systems	2329-6577
Biotechnology & Biomaterials	2155-952X
Bipolar Disorder: Open Access	-
Cell & Developmental Biology	2168-9296
Cell Science & Therapy	2157-7013
Cell Signaling	-
Cellular & Molecular Medicine: Open Access	-
Chemical Biology & Therapeutics	-
Clinical Epigenetics	-
Cloning & Transgenesis	2168-9849
Current Synthetic and Systems Biology	2332-0737
Cytology & Histology	2157-7099
Down Syndrome & Chromosome Abnormalities	-
Electronic Journal of Biology	-
Enzyme Engineering	2329-6674
Fertilization: in Vitro	2375-4508
Fungal Genomics & Biology	2165-8056
Gene Technology	2329-6682
Genetic Syndromes & Gene Therapy	2157-7412
Hereditary Genetics: Current Research	2161-1041
Human Genetics & Embryology	2161-0436
Insights in Cell Science	-
Insights in Stem Cells	-
International Journal of Genomic Medicine	2332-0672
Metabolomics: Open Access	2153-0769
Metabonomics & Metabolites	2325-9736
Microbial & Biochemical Technology	1948-5948
Microbial Methods & Assays Open Access	-
Molecular and Genetic Medicine	1747-0862
Molecular Biology	2168-9547
Molecular Biomarkers & Diagnosis	2155-9929
Molecular Cloning & Genetic Recombination	2325-9787
Nanomedicine & Biotherapeutic Discovery	2155-983X
Next Generation: Sequencing & Applications	-
Phylogenetics & Evolutionary Biology	2329-9002

Physiobiochemical Metabolism	2324-8793
Plant Biochemistry & Physiology	2329-9029
Proteomics & Enzymology	-
Single Cell Biology	2168-9431
Tissue Science & Engineering	2157-7552
Transcriptomics: Open Access	2329-8936
Translational Biomedicine	2172-0479

Health Care

Diversity and Equality and Health and Care	2049-5471
Health Care: Current Reviews	2375-4273
Health Science Journal	1791-809X
Pregnancy & Child Health	2376-127X
Primary Health Care	2167-1079
Quality in Primary Care	1479-1072
Tropical Diseases & Public Health	2329-891X
Women'S Health, Issues & Care	2325-9795

Immunology

Advances in Antibiotics & Antibodies	-
Allergy & Therapy	2155-6121
Autoimmune Diseases: Open Access	-
Clinical & Cellular Immunology	2155-9899
Cytokine Biology	-
Immunobiology	-
Immunogenetics: Open Access	-
Immunome Research	1745-7580
Immunotherapy: Open Access	-
Infectious Diseases & Immunological Techniques	2325-9752
Inflammatory Bowel Diseases & Disorders	-
Innate Immunity & Immunological Disorders	-
Interdisciplinary Journal of Microinflammation	-
Lupus: Open Access	-
Molecular Immunology	-
Osteoarthritis	-
Reproductive Immunology	-
Rheumatology: Current Research	2161-1149
Sarcoidosis	-
Vaccines & Vaccination	2157-7560

Informatics

Data Mining in Genomics & Proteomics	2153-0602
Glycomics and Lipidomics	2153-0637
Health & Medical Informatics	2157-7420
Proteomics & Bioinformatics	0974-276X
Theoretical and Computational Science	2376-130X

Materials Science

Bioceramics Developments and Applications	2090-5025
Material Sciences & Engineering	2169-0022
Nano Research & Applications	-
Nanomaterials & Molecular Nanotechnology	2324-8777
Nanomedicine & Nanotechnology	2157-7439
Plastic & Polymer Sciences	-
Powder Metallurgy & Mining	2168-9806
Research & Reviews: Journal of Material Sciences	2321-6212

Mathematics

Applied & Computational Mathematics	2168-9679
Biometrics & Biostatistics	2155-6180
Generalized Lie Theory and Applications	1736-4337
Physical Mathematics	2090-0902
Research & Reviews: Journal of Statistics and Mathematical Sciences	-

Medical

Abnormal and Behavioural Psychology	-
Acta Psychopathologica	-
Acta Rheumatologica	-
Addictive Behaviors , Therapy & Rehabilitation	2324-9005
Adenocarcinoma	-
Advances in Cancer Prevention	-
Advances in Genetic Engineering & Biotechnology	-
Advances in Weight Loss Management & Medical Devices	-

Aerobics & Fitness	-
Aesthetic & Reconstructive Surgery	-
Aids & Clinical Research	2155-6113
Air and Water Borne Diseases	2167-7719
Alternative & Integrative Medicine	2327-5162
Analgesia & Resuscitation : Current Research	2324-903X
Anaplastology	2161-1173
Anatomy & Physiology: Current Research	2161-0940
Andrology & Gynecology: Current Research	2327-4360
Andrology	2167-0250
Angiology: Open Access	2329-9495
Annals of Behavioural Science	-
Applied and Rehabilitation Psychology: Open Access	-
Archives in Cancer Research	2254-6081
Archives of Medicine	1989-5216
Archives of Surgical Oncology	-
Archivos De Medicina	1698-9465
Arthritis	2167-7921
Asthma and Bronchitis	-
Athletic Enhancement	2324-9080
Autacoids & Hormones	2161-0479
Biology and Medicine	0974-8369
Biomedical Engineering & Medical Devices	-
Biomedical Sciences	2254-609X
Bioterrorism & Biodefense	2157-2526
Blood	-
Blood & Lymph	2165-7831
Blood Disorders & Transfusion	2155-9864
Blood Pressure: Open Access	-
Bone Marrow Research	2329-8820
Bone Reports & Recommendations	-
Brain Tumors	-
Breast Cancer: Current Research	-
Cancer Biomarkers	-
Cancer Clinical Trials	-
Cancer Diagnosis	-
Cancer Medicine & Anticancer Drugs	-
Cancer Science & Therapy	1948-5956
Cancer Surgery	-
Carcinogenesis & Mutagenesis	2157-2518
Cardiovascular Diseases & Diagnosis	2329-9517
Cardiovascular Pathology: Open Access	-
Celiac Disease: Open Access	-
Cervical Cancer: Open Access	-
Chemotherapy	2167-7700
Chest Diseases	-
Childhood & Developmental Disorders	-
Childhood Obesity	-
Chronic Obstructive Pulmonary Disease: Open Access	-
Colorectal Cancer: Open Access	-
Communication Disorders, Deaf Studies & Hearing Aids	2375-4427
Community Medicine & Health Education	2161-0711
Complex Diseases and Treatment	-
Contraceptive Studies	-
Critical Care Obstetrics & Gynecology	-
Current Trends in Gynecologic Oncology	-
Dental Health: Current Research	-
Dental Implants and Dentures: Open Access	-
Dentistry	2161-1122
Depression and Anxiety	2167-1044
Dermatology Case Reports	-
Diabetes & Metabolism	2155-6156
Diabetes Medication and Care	-
Diabetic Complications and Medicine	-
Drug Abuse	-
Emergency Medicine	2165-7548
Endocrinology & Diabetes Research	-
Endocrinology & Metabolic Syndrome	2161-1017
Epidemiology: Open Access	2161-1165
Evidence based Medicine and Practice	-
Family Medicine & Medical Science Research	2327-4972
Forensic Biomechanics	2090-2697
Forensic Medicine	-

Forensic Nursing: Open Access	-	Neonatal Studies	-
Forensic Odontology	-	Neonatal Medicine	-
Forensic Psychology	-	Neoplasm	-
Forensic Research	2157-7145	Nephrology & Therapeutics	2161-0959
Gastrointestinal & Digestive System	2161-069x	Neurobiotechnology	-
Gastrointestinal Cancer and Stromal Tumors	-	Neuroinfectious Diseases	2314-7326
General Medicine	2327-5146	Neurooncology: Open Access	-
General Practice	2329-9126	Neurosurgery & Cardiac Surgery	-
Genetic Disorders & Genetic Reports	2327-5790	Novel Physiotherapies	2165-7025
Genital System & Disorders	2325-9728	Nuclear Medicine & Radiation Therapy	2155-9619
Geriatric Psychiatry	-	Nutritional Disorders & Therapy	2161-0509
Gerontology & Geriatric Research	2167-7182	Obesity & Eating Disorders	-
Gynecology & Obstetrics	2161-0932	Obesity & Weight Loss Therapy	2165-7904
Gynecology & Obstetrics- Case Report	-	Occupational Medicine Health Affairs	2329-6879
Haematology & Thromboembolic Diseases	2329-8790	Omics Journal of Radiology	2167-7964
Hair: Therapy & Transplantation	2167-0951	Oncology & Cancer Case Reports	-
Head and Neck Cancer Research	-	Oncology Translational Research	-
Health & Medical Economics	-	Oral Health and Dental Management	2247-2452
Health Care Communications	-	Oral Health Case Reports	-
Health Economics & Outcome Research: Open Access	-	Oral Hygiene & Health	2332-0702
Health Education Research & Development (Biosafety & Health Education: Open Access-2332-0893)	-	Orthodontics & Endodontics	-
Health Systems and Policy Research	2254-9137	Orthopedic & Muscular System: Current Research	2161-0533
Heart Transplant and Surgery	-	Orthopedic Oncology	-
Heavy Metal & Chelation Therapy	-	Osteoporosis & Physical Activity	2329-9509
Hepatology and Gastrointestinal Disorders	-	Otolaryngology:Open Access	2161-119X
Hospital & Medical Management	-	Otology & Rhinology	2324-8785
Hypertension- Open Access	2167-1095	Pain & Relief	2167-0846
Hypo & Hyperglycemia	2327-4700	Pain Management & Medicine	-
Imaging and Interventional Radiology	-	Palliative Care & Medicine	2165-7386
Medical Implants & Surgery	-	Pancreatic Disorders & Therapy	2165-7092
Informatics and Data Mining	-	Pediatric Care	-
Insights in Biomedicine	-	Pediatric Dental Care	-
Insights in Medical Physics	-	Pediatric Emergency Care and Medicine- Open Access	-
Integrative Oncology	2329-6771	Pediatric Nephrology Practice	-
Internal Medicine	2165-8048	Pediatric Neurology and Medicine	-
International Journal of Clinical & Medical Imaging	2376-0249	Pediatric Nursing: Open Access	-
International Journal of Collaborative Research on Internal Medicine & Public Health	-	Pediatric Oncology: Open Access	-
International Journal of Emergency Mental Health and Human Resilience	1522-4821	Pediatric Physiotherapy	-
International Journal of Mental Health & Psychiatry	2327-4654	Pediatric Psychology and Psychiatry	-
International Journal of Pediatric Neurosciences	-	Pediatrics & Therapeutics	2161-0665
International Journal of Physical Medicine & Rehabilitation	2329-9096	Periodontics and Prosthodontics: Open Access	-
International Journal of Public Health and Safety	-	Pigmentary Disorders	2376-0427
International Journal of School and Cognitive Psychology	-	Prevention Infection Control: Open Access	-
Interventional Pediatrics	-	Preventive Medicine	-
Invasive Cardiology Future Medicine	-	Primary & Acquired Immunodeficiency Research	2324-853X
JBR Journal of Interdisciplinary Medicine and Dental Sciences	2376-032X	Prostate Cancer	-
Kidney	-	Psoriasis & Rosacea Open Access	-
Kidney Transplant	-	Psychiatry	2378-5756
La Prensa Medica	0032-745X	Psychological Abnormalities in Children	2329-9525
Laser Surgery and Therapy	-	Psychology & Psychotherapy	2161-0487
Leukemia	2329-6917	Pulmonary & Respiratory Medicine	2161-105x
Liposuction	-	Rare Disorders & Diseases	-
Liver	2167-0889	Regenerative Medicine	2325-9620
Liver: Disease & Transplantation	2325-9612	Reproductive Endocrinology & Infertility	-
Lung Cancer Diagnosis & Treatment	-	Reproductive System & Sexual Disorders	2161-038x
Lung Diseases & Treatment	-	Research & Reviews: Journal of Dental Sciences	2320-7949
Malaria Control & Elimination	2090-2778	Research & Reviews: Journal of Medical and Health Sciences	2319-9865
Maternal and Pediatric Nutrition	-	Research Journal of Biology	2322-0066
Medical & Surgical Pathology	-	Sleep Disorders & Therapy	2167-0277
Medical & Surgical Urology	2168-9857	Sleep Disorders : Treatment & Care	2325-9639
Medical and Clinical Reviews	-	Spine	2165-7939
Medical Case Reports	-	Spine & Neurosurgery	2325-9701
Medical Diagnostic Methods	2168-9784	Spine Research	-
Medical Toxicology and Clinical Forensic Medicine	-	Sports Medicine & Doping Studies	2161-0673
Melanoma and Skin Diseases	-	Sports Nutrition and Therapy	-
Mental Health in Family Medicine	2327-4972	Steroids & Hormonal Science	2157-7536
Mental Illness and Treatment	-	Stroke Research & Therapy	-
Metabolic Syndrome	2167-0943	Journal of Surgery [Jurnalul de Chirurgie]	1584-9341
Molecular & Medical Histology	-	Surgery: Current Research	2161-1076
Molecular Medicine & Therapeutics	2324-8769	The Headache Journal	-
Neonatal Biology	2167-0897	The International Journal of Apitherapy	-
		The Pancreas	1590-8577
		Therapeutic Care and Physical Rehabilitation	-

Thrombosis and Circulation	-
Thyroid Disorders & Therapy	2167-7948
Translational Medicine	2161-1025
Transplant Reports : Open Access	-
Transplantation Technologies & Research	2161-0991
Trauma & Acute Care	-
Trauma & Treatment	2167-1222
Traumatic Stress Disorders & Treatment	2324-8947
Tropical Medicine & Surgery	2329-9088
Tumor Diagnostics and Reports	-
Universal Surgery	2254-6758
Vascular Medicine & Surgery	2329-6925
Vitiligo & Dermatomyositis	-
Voice Medicine & Surgery	-
Women's Health Care	2167-0420
Wound Medicine and Tissue Repair	-
Yoga & Physical Therapy	2157-7595

Microbiology

Advances in Influenza Research	-
Antimicrobial Agents	-
Antivirals & Antiretrovirals	1948-5964
Applied Microbiology: Open Access	-
Archives of Clinical Microbiology	1989-8436
Bacteriology and Parasitology	2155-9597
Clinical Infectious Diseases & Practice	-
Clinical Microbiology: Open Access	2327-5073
Colitis & Diverticulitis	-
Emerging Infectious Diseases	-
Fermentation Technology	2167-7972
Fibromyalgia: Open Access	-
Forensic Pathology	-
Hepatitis	-
Human Papillomavirus	-
Infectious Diseases and Diagnosis	-
Infectious Diseases and Therapy	2332-0877
Medical Microbiology & Diagnosis	2161-0703
Medical Micrology: Open Access	-
Meningitis	-
Mycobacterial Diseases	2161-1068
Pediatric Infectious Diseases: Open Access	-
Research & Reviews: Journal of Microbiology and Biotechnology	2320-3528
Research & Reviews: Journal of Inflammation	-
Research & Reviews: Journal of Pathology & Epidemiology	-
Virology & Mycology	2161-0517

Neuroscience

Addiction Research & Therapy	2155-6105
Alzheimers Disease & Parkinsonism	2161-0460
Autism-Open Access	2165-7890
Brain Disorders & Therapy	2168-975X
Child & Adolescent Behavior	2375-4494
Clinical & Experimental Neuroimmunology	-
Dementia & Mental Health	-
Epilepsy Journal	-
Insights in Clinical Neurology	-
International Journal of Neurorehabilitation	2376-0281
Multiple Sclerosis	2376-0389
Neurological Disorders	2329-6895
Neurology & Neurophysiology	2155-9562
Neurology and Neuroscience	2171-6625
Neuropsychiatry	-
Neuroscience & Clinical Research	-
Schizophrenia Journal	-

Health Care & Nursing

Advanced Practices in Nursing	-
Community & Public Health Nursing	-
Nursing & Care	2167-1168
Nursing & Clinical Research	-
Patient Care	-
Perioperative & Critical Intensive Care Nursing	-
Research & Reviews: Journal of Nursing and Health Sciences	-

Pharmaceutical Sciences

Advances in Pharmacoepidemiology & Drug Safety	2167-1052
Alcoholism & Drug Dependence	2329-6488
Bioanalysis & Biomedicine	1948-593X
Biochemistry & Pharmacology: Open Access Journal	2167-0501
Bioequivalence & Bioavailability	0975-0851
Biomarkers in Drug Development	2327-4441
Biomarkers Journal	-
Biomolecular Research & Therapeutics	2167-7956
Cardiovascular Pharmacology: Open Access	2329-6607
Clinical & Experimental Pharmacology	2161-1459
Clinical Pharmacology and Biopharmaceutics	2167-065X
Current Trends in Nutraceuticals	-
Developing Drugs	2329-6631
Diagnostic Techniques & Biomedical Analysis	-
Drug Designing: Open Access	2169-0138
Drug Metabolism & Toxicology	2157-7609
in Silico & in Vitro Pharmacology	-
Molecular Enzymology and Drug Targets	-
Molecular Pharmaceutics & Organic Process Research	2329-9053
Pharmaceutica Analytica Acta	2153-2435
Pharmaceutical Care & Health Systems	2376-0419
Pharmaceutical Microbiology	-
Pharmaceutical Regulatory Affairs: Open Access	2167-7689
Pharmaceutical Sciences & Emerging Drugs	-
Pharmaceutics & Drug Delivery Research	2325-9604
Pharmacoeconomics: Open Access	-
Pharmacogenomics and Pharmacoproteomics	2153-0645
Pharmacognosy & Natural Products	-
Pharmacokinetics & Experimental Therapeutics	-
Pharmacological Reports	-
Pharmacovigilance	2329-6887
Research & Reviews: Journal of Hospital and Clinical Pharmacy	-
Research & Reviews: Journal of Pharmaceutical Analysis	2320-0812
Research & Reviews: Journal of Pharmaceutical Quality Assurance	-
Research & Reviews: Journal of Pharmaceutics and Nanotechnology	2347-7857
Research & Reviews: Journal of Pharmacognosy and Phytochemistry	2321-6182
Research & Reviews: Journal of Pharmacy and Pharmaceutical Sciences	2320-1215
Virology & Antiviral Research	2324-8955

Physics

Astrophysics & Aerospace Technology	2329-6542
Research & Reviews: Journal of Pure and Applied Physics	2320-2459
Vortex Science and Technology	2090-8369

Social & Political Sciences

Anthropology	2332-0915
Arts and Social Sciences Journal	2151-6200
Civil & Legal Sciences	2169-0170
Forensic Anthropology	-
Global Media Journal	1550-7521
Intellectual Property Rights: Open Access	2375-4516
Mass Communication & Journalism	2165-7912
Political Science & Public Affairs	2332-0761
Research & Reviews: Journal of Educational Studies	-
Research & Reviews: Journal of Social Sciences	-
Socialomics	2167-0358
Sociology & Criminology	2375-4435

Veterinary Sciences

Animal Nutrition	-
Primateology	2167-6801
Research & Reviews: Journal of Veterinary Sciences	-
Research & Reviews: Journal of Zoological Sciences	2321-6190
Veterinary Science & Medical Diagnosis	2325-9590
Veterinary Science & Technology	2157-7579

Impact Factors* (IF)

Impact Factors* (IF)

Journal Name	Pubmed Short Name	Impact Factor
Biological Systems: Open Access	Biol Syst Open Access	0.76
Journal of Biotechnology & Biomaterials	J Biotechnol Biomater	1.94
Journal of Psychology & Psychotherapy	J Psychol Psychother	1.3
Advanced Techniques in Biology & Medicine	Adv Tech Biol Med	1.08
AIDS & Clinical Research	J AIDS Clin Res	2.7
Autism Open Access	Autism Open Access	3.52
Biochemistry & Physiology: Open Access	Biochem Physiol	1.03
Diversity Equality in Health & Care	Divers Equal Health Care	2.49
Drug Designing: Open Access	Drug Des	6
Fungal Genomics & Biology	Fungal Genom Biol	1.15
International Journal of Genomic Medicine	Int J Genomic Med	0.67
Journal of Addiction Research & Therapy	J Addict Res Ther	2.86
Journal of Alzheimers Disease & Parkinsonism	J Alzheimers Dis Parkinsonism	1.18
Journal of Fertilization: In Vitro	JFIV Reprod Med Genet	1
Journal of Genetic Syndromes & Gene therapy	J Genet Syndr Gene Ther	2.34
Journal of Microbial & Biochemical Technology	J Microb Biochem Technol	2.5
Journal of Nursing & Care	J Nurs Care	1.6
Journal of Osteoporosis and Physical Activity	J Osteopor Phys Act	0.66
Journal of Yoga & Physical Therapy	J Yoga Phys Ther	1.17
Molecular Biology	Mol Biol	1.85
Neurology & Neurophysiology	J Neurol Neurophysiol	0.77
Primary health care	Prim Health Care	1
Quality in Primary Care	Qual Prim Care	3.88
Tissue Science & Engineering	J Tissue Sci Eng	2.72
Biochemistry & Analytical Biochemistry	Biochem Anal Biochem	2.6
Molecular and Genetic Medicine	J Mol Genet Med	2.89
Advancements in Genetic Engineering	Adv Genet Eng	1
Enzyme Engineering	Enz Eng	2.3
Depression and Anxiety	J Depress Anxiety	1
Human Genetics & Embryology	Human Genet Embryol	1.2
Current Synthetic and Systems Biology	Curr Synthetic Sys Biol	0.8
Hereditary Genetics: Current Research	Hereditary Genet	1.2
International Journal of Emergency Mental Health and Human Resilience	Int J Emerg Ment Health	6.5
Spine	J Spine	1.9
Cloning & Transgenesis	Clon Transgen	1.5
Journal of Medical Microbiology & Diagnosis	J Med Microb Diagn	1.9
Biosensors Journal	Biosens J	0.33
Defense Management	J Def Manag	0.5
Review of Public Administration and Management	Review Pub Administration Manag	0.2
Single cell biology	Single Cell Biol	1
Gerontology & Geriatric Research	J Gerontol Geriatr Res	1
Neuroinfectious Diseases	J Neuroinfect Dis	2.4
Cell Science & Therapy	J Cell Sci Ther	1.37
Molecular Biomarkers & Diagnosis	J Mol Biomark Diagn	2.1
Brain Disorders & Therapy	Brain Disord Ther	1.6
Clinical Case Reports	J Clin Case Rep	1.2
Gene Technology	Gene Technol	0.83
Socialomics	J Socialomics	2.3
Journal of Trauma and Treatment	J Trauma Treat	0.6
Translational Biomedicine	Transl Biomed	1.06
Journal of Neurology and Neuroscience	J Neurol Neurosci	0.88
Research & Reviews: Journal of Botanical Sciences	J Bot Sci	0.33
Journal of Psychiatry	J Psychiatry	2.32
Anaplastology	Anaplastology	0.73
Tropical Medicine & Surgery	Trop Med Surg	0.4
Orthopedic & Muscular System: Current Research	Orthop Muscular Syst	0.32
Pediatrics & Therapeutics	Pediatr Therapeut	1.32
Sports Medicine & Doping Studies	J Sports Med Doping Stud	1.45
Journal of Oral Hygiene & Health	J Oral Hyg Health	0.52
Emergency Medicine	Emerg Med (Los Angel)	0.875
Journal of Transplantation Technologies & Research	J Transplant Technol Res	1.39
Journal of Hypertension: Open Access	J Hypertens (Los Angel)	0.92
International Journal of Waste Resources	Int J Waste Resour	1.95
Surgery: Current research	Surgery Curr Re	0.587

Oral Health and Dental Management	Oral Health Dent Manag	1.23
International Journal of Advancement technology	Int J Adv Tech	5.08
Translational Medicine	Transl Med (Sunnyvale)	1.312
Air and Water Borne Diseases	Air Water Borne Diseases	0.6
Journal of Coastal Zone Management	J Coast Zone Manag	0.54
Biology and Medicine	Biol Med (Aligarh)	3.07
Journal of Bioterrorism and Biodefense	J Bioterror Biodef	0.38
Journal of Tropical Diseases & Public Health	J Trop Dis	0.83
Journal of Surgery	Journal of Surgery [Jurnalul de chirurgie]	0.08
Nephrology & Therapeutics	J Nephrol Ther	0.318
Journal of Fundamentals of Renewable Energy and Applications	J Fundam Renewable Energy Appl	1.41
Advances in Pharmacoeconomics & Drug Safety	Adv Pharmacoeconomiol Drug Saf	1.37
Bioanalysis & Biomedicine	J Bioanal Biomed	1.67
Biochemistry & Pharmacology: Open Access	Biochem Pharmacol (Los Angel)	2.09
Bioequivalence & Bioavailability	J Bioequiv Availab	1.88
Biomolecular Research & Therapeutics	J Biomol Res Ther	1.67
Cardiovascular Pharmacology: Open Access	Cardiol Pharmacol	1.77
Clinical & Experimental Pharmacology	Clin Exp Pharmacol	1.83
Clinical Pharmacology & Biopharmaceutics	Clin Pharmacol Biopharm	1.69
Data Mining in Genomics & Proteomics	J Data Mining Genomics Proteomics	2
Drug Metabolism & Toxicology	J Drug Metab Toxicol	1.37
Ergonomics	J Ergonomics	1.38
Glycomics & Lipidomics	J Glycomics Lipidomics	1.82
Health & Medical Informatics	J Health Med Inform	1.98
Metabolomics: Open Access	Metabolomics (Los Angel)	3.03
Nanomedicine & Biotherapeutic Discovery	J Nanomedine Biotherapeutic Discov	2.69
OMICS Journal of Radiology	OMICS J Radiol	0.54
Pharmaceutica Analytica Acta	Pharm Anal Acta	1.83
Pharmaceutical Regulatory Affairs: Open Access	Pharm Regul Aff	1.88
Pharmacogenomics & Pharmacoproteomics	J Pharmacogenomics Pharmacoproteomics	1.69
Pharmacovigilance	J Pharmacovigil	2.65
Phylogenetics & Evolutionary Biology	J Phylogenetics Evol Biol	2.76
Proteomics & Bioinformatics	J Proteomics Bioinform	2.55
Advances in Automobile Engineering	Adv Automob Eng	1.750
Advances in Robotics & Automation	Adv Robot Autom	0.813
Arts and Social Sciences Journal	Arts Social Sci J	1.231
Bioceramics Developments and Applications	Bioceram Dev Appl	0.958
Business & Financial Affairs	J Bus & Fin Aff	2.000
Generalized Lie Theory and Applications	J Generalized Lie Theory Appl	1.750
Irrigation & Drainage Systems Engineering	Irrigat Drainage Sys Eng	4.286
Industrial Engineering & Management	Ind Eng Manage	0.474
Aeronautics & Aerospace Engineering	J Aeronaut Aerospace Eng	1.407
Applied & Computational Mathematics	J Appl Computat Math	0.581
Architectural Engineering Technology	J Archit Eng Tech	1.071
Accounting & Marketing	J Account Mark	0.500
Aquaculture Research & Development	J Aquac Res Development	1.272
Bioengineering & Biomedical Science	J Bioeng Biomed Sci	1.235
Biometrics & Biostatistics	J Biomet Biostat	1.272
Biosensors & Bioelectronics	J Biosens Bioelectron	2.137
Civil & Environmental Engineering	J Civil Environ Eng	1.294
Cytology & Histology	J Cytol Histol	0.569
Civil & Legal Sciences	J Civil Legal Sci	0.286
Ecosystem & Ecography	J Ecosyst Ecogr	1.806
Electrical & Electronic Systems	J Elec Electron Syst	0.533
Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manag	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091

Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Moi Imaging Dynam	2.091
Petroleum & Environmental Engineering	J Pet Environ Biotechnol	2.839
Stock & Forex Trading	J Stock Forex Trad	0.300
Textile Science & Engineering	J Textile Sci Eng	0.667
Tourism & Hospitality	J Tourism Hospit	1.190
Telecommunications System & Management	J Telecommun Syst Manage	0.800
Physical Mathematics	J Phys Math	4.500
Nanomedicine & Nanotechnology	J Nanomed Nanotechnol	4.68
Arabian Journal of Business and Management Review	Arab J Bus Manage Rev	1.42
Research and Reviews: Journal of Engineering and Technology	Engineering and Technology	0.14
Journal of Material Sciences & Engineering	J Material Sci Eng	1.31
Journal of Mass Communication & Journalism	J Mass Communicat Journalism	0.62
Journal of Powder Metallurgy & Mining	J Powder Metall Min	0.71
Journal of Applied Mechanical Engineering	J Appl Mech Eng	1.65
Archives of Clinical Microbiology		0.35
Dentistry	Dentistry	1.22
Journal of Diabetes & Metabolism	J Diabetes Metab	1.77
Otolaryngology: Current Research	Otolaryngol (Sunnyvale)	0.22
Journal of Metabolic Syndrome	J Metabolic Synd	1.27
Journal of Primatology	J Primatol	0.53
Journal of Thyroid Disorders & Therapy	Thyroid Disorders Ther	0.43
Journal of Novel Physiotherapies	J Nov Physiother	1.24
Journal of Stem Cell Research & Therapy	J Stem Cell Res Ther	2.78
Anatomy & Physiology: Current Research	Anat Physiol	1
Pancreatic Disorders & Therapy	Pancreat Disord Ther	0.54
Journal of Cancer Science & Therapy	J Cancer Sci Ther	4.203
Journal of Biomedical Sciences		0.2
Journal of Nutritional Disorders & Therapy	J Nutr Disord Ther	1.46
Medical & Surgical Urology	Med Surg Urol	0.3
Journal of Biochips & Tissue Chips	J Biochip Tissue Chip	1.7
Journal of Liver	J Liver	0.08
Journal of Family Medicine and Medical Research	Fam Med Med Sci Res	0.78
Gynecology & Obstetrics	Gynecol Obstet (Sunnyvale)	0.52
Journal of Integrative Oncology	J Integr Oncol	1.67
Journal of Neonatal Biology	J Neonatal Biol	0.55
Journal of Glycobiology	J Glycobiology	0.8
Journal of Blood & Lymph	J Blood Lymph	0.12
Journal of Arthritis	J Arthritis	1.87
Journal of Membrane Science & Technology	J Membra Sci Technol	1.18
Medicinal Chemistry	Med Chem (Los Angeles)	2.64
Journal of Physical Chemistry & Biophysics	J Phys Chem Biophys	0.75
Organic Chemistry: Current Research	Organic Chem Curr Res	1.94
Journal of Bioprocessing & Biotechniques	J Bioprocess Biotech	1.74
Journal of Environmental & Analytical Toxicology	J Environ Anal Toxicol	2.58
Journal of Chemical Engineering & Process Technology	J Chem Eng Process Technol	1.21
Journal of Computer Science & Systems Biology	J Comput Sci Syst Biol	1.62
Journal of Analytical & Bioanalytical Techniques	J Anal Bioanal Tech	2.16
Journal of Plant Biochemistry & Physiology	J Plant Biochem Physiol	2.28
Journal of Chromatography & Separation Techniques	J Chromatogr Sep Tech	1.78
Journal of Thermodynamics & Catalysis		0.91
Community Medicine & Health Education	J Community Med Health Educ	1.27
Epidemiology: Open Access	Epidemiology (Sunnyvale)	1.35
Obesity & Weight Loss Therapy	J Obes Weight Loss Ther	0.94

Pain & Relief	J Pain Relief	1.14
Palliative Care & Medicine	J Palliat Care Med	0.88
Steroids & Hormonal Science	J Steroids Horm Sci	0.65
Gastrointestinal & Digestive System	J Gastrointest Dig Syst	0.43
Hair: Therapy & Transplantation		0.6
Andrology	Andrology (Los Angel)	1.16
Endocrinology & Metabolic Syndrome	Endocrinol Metab Syndr	1.12
Internal Medicine		2.48
Sleep Disorders & Therapy	J Sleep Disord Ther	0.5
Nuclear Medicine & Radiation Therapy	J Nucl Med Radiat Ther	0.88
Alternative & Integrative Medicine	Altern Integr Med	1.11
Pulmonary & Respiratory Medicine	J Pulm Respir Med	1.01
Occupational Medicine Health Affairs	Occup Med Health Aff	0.85
Reproductive System & Sexual Disorders	Reprod Syst Sex Disord	1.25
Medical Diagnostic Methods		0.29
Blood Disorders & Transfusion	J Blood Disord Transfus	0.5
General Medicine	Gen Med (Los Angel)	0.86
Bioenergetics: Open Access	Bioenergetics	3.1
Chemotherapy: Open Access	Chemotherapy (Los Angel)	1.8
Clinical & Experimental Pathology	J Clin Exp Pathol	1.54
Carcinogenesis & Mutagenesis	J Carcinog Mutagen	1.9
Clinical Research & Bioethics	J Clinic Res Bioeth	0.95
Vaccines & Vaccination	J Vaccines Vaccin	1.8
Immunome Research	Immunome Res	7.1
Clinical & Experimental Ophthalmology	J Clin Exp Ophthalmol	1.11
Clinical & Experimental Dermatology Research	J Clin Exp Dermatol Res	0.5
Clinical & Experimental Cardiology	J Clin Exp Cardiol	1.33
Clinical Microbiology: Open Access	Clin Microbiol	0.7
Anesthesia & Clinical research	J Anesth Clin Res	0.7
Mycobacterial Diseases	Mycobact Dis	0.9
Clinical Toxicology	J Clin Toxicol	1.39
Clinical Trials & Research	J Clin Trials	1.33
Antivirals & Antiretrovirals	J Antivir Antiretrovir	1.27
Fermentation Technology	Ferment Technol	3.44
Clinical & Cellular Immunology	J Ciin Cell Immunol	2.019
Allergy & Therapy	J Allergy Ther	0.762
Bacteriology & Parasitology	J Bacteriol Parasitol	2.025
Rheumatology: Current Research	Rheumatology (Sunnyvale)	1.522
Virology & Mycology	Virol Mycol	0.69
Clinics in Mother and Child Health	Clinics Mother Child Health	0.432
Womens Health Care	J Womens Health Care	0.79
Marine Science: Research & Development	J Marine Sci Res Dev	0.45
Plant Pathology & Microbiology	J Plant Pathol Microbiol	1.75
Geology & Geophysics	J Geol Geophys	0.91
FisheriesSciences	J Fisheries Sci	0.51
Fisheries and Aquaculture Journal	Fish Aquac J	0.69
Bioremediation & Biodegradation	J Bioremediat Biodegrad	2.1
Advances in Crop Science and Technology	Adv Crop Sci Tech	0.39
Journal of Remote Sensing & GIS	J Geophys Remote Sens	0.77
Biofertilizers & Biopesticides	J Biofertil Biopestic.	1.19
Hydrology: Current Research	Hydrol Current Res	1.12
Probiotics & Health	J Prob Health	0.69
Veterinary Science & Technology	J Veterinar Sci Technolo	2.5
Medicinal & Aromatic Plants	Med Aromat Plants	2.02
Forest Research	Forest Res	1.69
International Journal of Sensor Networks and Data Communications	Sensor Netw Data Commun	1.66
Innovative Energy Policies	Innov Energ Policies	0.88
Biodiversity & Endangered Species	J Biodivers Endanger Species	0.25
Biosafety	Biosafety	0.49
Agrotechnology	Agrotechnol	0.69
Journal of Traditional Medicine and Clinical Naturopathy	J Tradition Med Clin Naturopth	0.49
Nutrition & Food Sciences	J Nutr Food Sci	1.14
Entomology, Ornithology & Herpetology	Entomol Ornithol Herpetol	1.26

Impact Factor Calculation:

Impact Factor was established by dividing the number of articles published in 2012 and 2013 with the number of times they are cited in 2014 based on Google search and the Scholar Citation Index database. If 'X' is the total number of articles published in 2012 and 2013, and 'Y' is the number of times these articles were cited in indexed journals during 2014 than, impact factor = Y/X



**Digital
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**4th International Conference on
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March 15, 2022 | Webinar

**SUPPORTING
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Journal of Health Medical Informatics

Alternative & Integrative Medicine

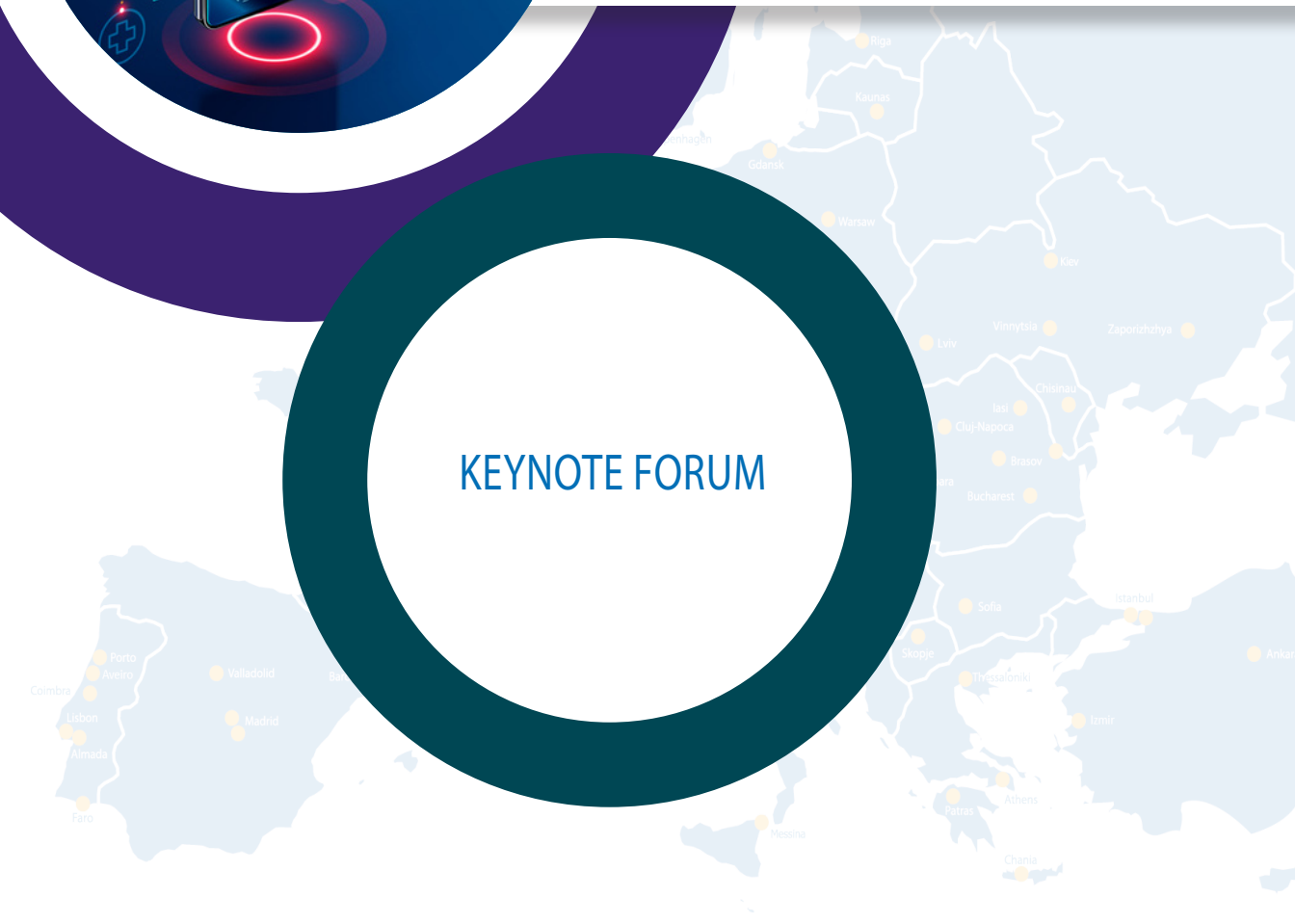
Journal of Biomedical Systems Emerging Technologies





4th International Conference on
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KEYNOTE FORUM



Digital Health

February 23-24, 2022 Webinar

VK Digital Health Expands Telehealth Capabilities while Reducing Healthcare Costs

The global pandemic opened the door to a new era of healthcare where patients no longer need to be physically close to their doctors to get the care they need. VK Digital Health is a company that combines the best of telehealth, tele diagnostics, and remote patient monitoring (RPM), and care management to improve how physicians remotely treat patients. With interoperability with electronic health record systems and adaptive data analytics, VK can provide unique insights that will continue to improve individual and population healthcare. The Breeze platform currently includes Breeze360, an RPM and chronic care management portal, and the Breeze Smart Clinic Chair, which features 11 remotely controlled, tele diagnostic instruments and a clear, virtual connection to a remote physician for a complete, remote physical exam. This platform allows telehealth companies to provide more comprehensive care each day and to offer broader services to patients who manage chronic illnesses such as diabetes, heart disease, and cancer. Early testing has substantiated remote functionality of the system and platform data processing. The results of implementation are reduced healthcare costs for providers and patients; the ability to more accurately diagnose and treat patients with minor or chronic illnesses; and the capacity to prescribe targeted medications while ensuring ongoing medication adherence and monitoring patient wellness. The Breeze platform, which can be connected via satellite, Wi-Fi, or cellular, to enable care in even the most remote locations, promises to revolutionize how and where telehealth companies give and receive healthcare while decreasing overall healthcare.

Biography

Charlie Nahabedia holds a BSEE, MSEE, and MBA from North-eastern University and Seton Hall University. Starting his career at Bell Labs and AT&T, he has 50 years in the telecom and computer fields with small and Fortune 100 companies, where he developed and managed the realization of many innovative systems such as the first cordless telephone, first cellular coin telephone aboard a high-speed train, and the interactive-touchscreen kiosk network for Disney World's EPCOT theme park. He has published over 7 papers, has 2 patents, and received a national award 'For Outstanding Contribution in A Field of Science'. For 8 years, he has taught graduate entrepreneurial courses at Fairleigh Dickinson University's Rothman Institute. Charlie, a healthcare idealist, is current CEO of VK Digital Health, and is dedicated to offering innovative healthcare solutions.

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Charles E. Nahabedian

VK Digital Health, USA

Digital Health

February 23-24, 2022 Webinar

Narrowing the care gaps or widening the digital divide? – An American rural population health perspective

Covid 19 pandemic catalysed the transformation of global digital health technology. Telehealth emerged as a safer and cost-effective health care delivery platform serving American consumers, despite several challenges. Besides assisting the hospital systems in delivering acute, episodic care during the pandemic, Telehealth unearthed few root causes for disparities in population health, as evidenced by our comprehensive physician-based survey results in May 2020. The providers delivered 57% of the care via Telehealth during May 2020. The utilization of Telehealth among the providers we surveyed was only 1% in Pre-Covid 19 era. The providers expected to keep Telehealth to deliver 25% of the care in Post-Covid 19 era. While most of the Telehealth encounters utilized an internet-based live audio-video interface, about 26% of the patients had access to an audio-only telephone device. This study also provided insights into key drivers of disparity in population health outcomes in our state. The providers' had about 12% appointment cancellations during normal, Pre-Covid 19 times, opposed to <5% during the pandemic. 60% of the providers indicated that the drivers of poor access to ambulatory healthcare services such as transport issues, distance, disability, and disease-specific barriers could be addressed using Telehealth. Routine and post-procedure follow-ups, medication refills, and reviews of tests account for about 53% of the provider's services in the outpatient setting, which can be delivered via Telehealth. A successful digital health strategy must consider the urban-rural divide and social determinants of health while solving the last mile problems in the modern healthcare system.

Biography

Chandra Lingisetty is a physician, keynote speaker, and healthcare executive with extensive medical and surgical training in India, the UK, and the USA. In addition to an MBA degree in the USA, he has a Masters degree in healthcare management from Harvard University. He is the Chief Administrative Officer at Baptist Health Physician Partners/Baptist Health, a USA-based not-for-profit integrated healthcare delivery system. He has published several scientific papers in reputed journals and serves as the editorial board member in peer-reviewed journals.

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Chandra Lingisetty

Harvard University, USA

Digital Health

February 23–24, 2022 Webinar

Health data integrity and interoperability

Health data appear as a fundamental factor that needs to be presented in a certain form and content from both technical and legal, as well as socio-ethical aspects. Due to the simplicity of the structure, personal health data itself should contain a very small amount of data. However, as these data relate to the data that link a particular person to whether he has already been treated, when and what type of treatment, the personal health card must have personal data proving the identity of the person in different destinations, i.e. areas where the individual can move and show that the person is medically treated.

The challenges of digital health records relate to the elements of general interoperability and data integrity of the following components

- Complexity of resources in IT domains
- Possibility of interference
- Conflict standards - post facto
- Heterogeneous global landscape of IT
- There are no unified coding systems at the international level
- Lack of balance between cost allocation
- Low transparency - reduced accountability
- Centralized networks - reduced efficiency
- General system limitation caused by the level of fragmentation
- Lack of a sufficient level of trust in the data transaction layer

At these points, Blockchain emerges as a promising response to most obstacles, particularly the data integrity dilemma. Because it is based on trust and immutability, Blockchain enables better data-level cooperation between healthcare providers and service providers by adopting the principle of secure storage of electronic medical records by providing tons of data to health information systems.

Biography

As a Chief Scientist and Blockchain expert, Dean Rakic accompanies customers in their digital transformation processes. He looks back in more than 25 years of experience in digital data processing. Overall previous experience is on top of Strategy and Innovation development during all development phases, project monitoring and project controlling with the identification, analysis, measurement, and control of project risks as well as the regular analysis of the impacts. Particularly, as a lecturer, promotion of science and the implementation of innovative achievements, mentoring and counselling in different vertices, ranging from standard industrial to non-governmental and sustainable projects.

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Dean Rakic

Chief Scientist at TAAL, Switzerland

Digital Health

February 23–24, 2022 Webinar

The Perioperative Human Digital Twin

The current approach of applying one-size-fits-all consensus guidelines over an entire patient population arose from the application of statistics to medicine in the 20th century. This has been highly successful, but the advent of machine learning and the availability of new sources of patient data is leading the shift towards precision medicine, promising medical treatment personalized to the individual. Early precision medicine has seen success in oncology with genomic testing to identify the BRCA gene and HER-2 receptor leading to biomarker-specific treatments. The near-future potential of precision medicine expands well beyond genomics, facilitating a more holistic assessment of a patient. An area of active research is that of digital biomarkers- electronically collected and processed measures of physiology and behavior. Future physicians will require to capture extensive multimodal data about individual patients, to view it in a clinically useful manner and to have evidence-based treatment plans based on this information. We introduce the concept of the Human Digital Twin (HDT). A digital twin is a mathematical model of a system constructed from all available information. The HDT allows for in silico analysis, assessment, and testing, without the need for direct perturbation of the patient's physiology. It can effectively expand precision medicine beyond genomics and other limited data sources to incorporate all biomarkers- digital, radiological, biochemical, exposomic, etc. A clinical picture is created using advanced analytics and AI, giving a holistic view of an individual. The HDT evolves in line with the person and their unique personal state with the addition of data over a lifetime. A group of HDTs can be used with predictive modelling to compare the patient's current status with a personalized estimated trajectory. We can simulate the effects of possible therapies before they are given, so patients and physicians can select an option that will most effectively balance risk and benefit. This can both guide the decision to start treatment, and also be used for treatment effect monitoring. Any deviation in the patient from their HDT trajectory prompts reassessment and a search for unrecognized complicating factors. Furthermore, the HDT could guide patient recruitment for clinical trials by selecting those patients with biomarkers suggesting that they are most likely to see clinical benefit.

Biography

Mohamed A. Rehman, Johns Hopkins School of Medicine, USA. We are currently running HDT trials on: Peri-operative patients: spine surgery and heart surgery Sickle cell Obesity Concussion Professionals in the peri-operative domain During the presentation I will discuss how to plan, implement, and collect data for optimization of patient care. Happy to give this as a core lecture during your symposium.

rehman@jhu.edu



Mohamed A. Rehman

Johns Hopkins School of Medicine, USA

Digital Health

February 23–24, 2022 Webinar

Digital Transformation of Healthcare by Artificial Intelligence in Sectors of Textile Industries in Egypt

A digital transformation of healthcare by artificial intelligence in sectors of textile industries in Egypt. Digital health and artificial intelligence promises to change the face of healthcare in sectors of textile industries in Egypt. Reflecting this is growing interest in the digital health space sectors of textile industries, as evidenced by a substantial growth in investment over the past few years. Major industries from the pharmaceutical, medical technology, health insurance, retail and technology industries are all forging ahead with investments and internal product development. Medical informatics is the application of computers, communications and information technology and systems to all fields of medicine - medical care, medical education and medical research. The definition of Medical Informatics is dynamic due to the rapidly changing nature of both medicine and technology the sharing of a variety of information back and forth between people and healthcare entities. Medical Informatics is a new, exciting and evolving field. New specialties and careers are now possible. The expectation is that information technology will improve medical quality, patient safety, educational resources and patient-physician communication, while decreasing cost. Applied Medical Informatics studies the dispensation of medical statistics, the potent, management of information using computer technology, and the impact of such methods on medical research, education.

Biography

ELSAYED AHMED ELNASHAR, Full-Professor of textiles Apparel, Kaferelsheikh University, Egypt. Born in 19 /8/1965. Have Ph.D. 2000, Msc.1995, Bsc.1989, and Helwan University. Diploma1985advanced industrial textiles institute. He holds several academic administrative positions: Dean, Vice Dean, Head of Department, He has many textiles patents, Member of international scientific committees. Development of Faculties of Education, commissioned of Supreme Council of Egyptian Universities. Has design books published in Germany and Ukraine. Has published over 225 scientific Articles. Editorial board member & Reviewer for more 225 journals, organizer for more than 195 conference and workshop over the world, Founder and editor two scientific journals. And Smartex Conference Egypt. Member of the editorial board of several international journals and conferences, He has made many scientific agreements with European &Africa universities, visitor Professor in Lods University, Poland, and Ghana.

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Elsayed Ahmed Elnashar

Kaferelsheikh University, Egypt

N-Chromosome Royal Jelly, Propolis and Bee Pollen Supplementation Improve the Clinical Conditions of COVID-19 Patients: A Randomized Controlled Trial

Royal jelly, propolis, and bee pollen are used for different purposes all around the world according to their anti-inflammatory, antioxidant, and antimicrobial activities. Given that Coronavirus 2019 (COVID-19) is a viral condition accompanied by a dysregulated inflammatory response in the body, we intend to evaluate the effects of natural supplementations on the disease course. A randomized, open-label, controlled trial was conducted among 50 definitive cases of COVID-19. These patients were randomly assigned into control and in-tervention groups. Royal Jelly, propolis, and bee pollen were prescribed to patients in the in-tervention group (n = 24) in addition to conventional treatment; while the control group only received the standard treatment (n = 26). At the end of the study, functional class improved in both groups, but this change was more pronounced in the intervention group ($p < 0.05$).

Biography

Hossein Yeganehrad comes from succesful beekeeping operations dating back over 190 years in Iran. He is the inventor of the Caspian Solution which he has used to save over 44,000 hives from extermination in Canada. His research in api-therapy has shown how bee products can be used to help with mineral deficiencies, recovery from chemotherapy, diabetes, and many other auto-immune diseases . He is the largest producer of Bee Venom and Royal Jelly in North America and also the inventor of N-Chromosome Royal Jelly.

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Hossein Yeganehrad

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Digital Health 2022



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SCIENTIFIC TRACKS
& ABSTRACTS



Digital Health

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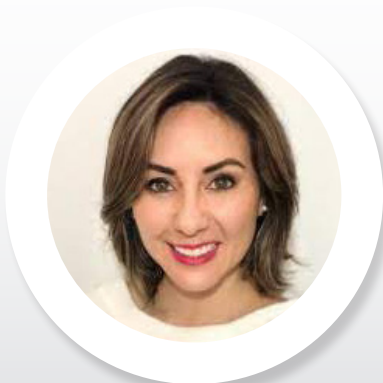
Digital Health Technologies and its acceleration through Innovation Networks

Acceleration and progression of TRLs of technology-based spin-offs through innovation networks have received considerable attention for its promise to contribute to technology transfer and entrepreneurship. In fact, studies have demonstrated that belonging to a managed network enhances knowledge transfer, fosters innovation and eases access to resources, partners and investors, which are key elements for the development and sustainability of new ventures. Xartec Salut is a HealthTech Innovation Network with 47 research groups from 17 leading institutions in the field (hospitals, universities and technology centers) co-funded by the European Union through the European Regional Development Fund (FEDER, Fondo Europeo de Desarrollo Regional). Xartec Salut's network is the first network that considers the healthcare sector in Catalonia as a whole, generating and sharing knowledge and designing a framework to systematically detect, evaluate and foster the most potential technologies by collaborative consortia (from healthcare institutions, academic research and technology centers). In this line, the network has a Venture Builder Program aimed to support and accelerate the technology transfer of health technologies through user/patient-oriented spin-offs born within the network. So far, the network has supported market-driven projects and specially digital health technologies such as digital therapeutic solutions, a serious games platform for immersive medical training, and apps that facilitate connectivity between patients and doctors for better follow-up care. In this regard, the network is becoming a catalyst to accelerate the creation of new companies in the Health Tech and Digital Health ecosystem, enhancing their long-term survival and maximizing their impact in the market while providing specific resources and support.

Biography

Cristina Páez-Avilés is Biotechnological Engineer and holds a Master's degree in Pharmaceutical Biotechnology from University Pompeu Fabra and a PhD in Nanoscience from the University of Barcelona. She has worked at Johnson&Johnson's Medical Device division and was the Research Coordinator at Roche Ecuador. Currently, she does Business Development at Xartec Salut, the Catalan's HealthTech Network. She has published more than 20 papers in high-impact factor journals such as Sensors, The Journal of Technology Transfer, Journal of Engineering and Technology Management and the International Journal of Innovation Management.

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Cristina Magdalena Paez Aviles

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ARTHUR-3D Dentofacial Surgery Full Planning

Facial expression facilitates the understanding of the individual's identity, being essential for communication and interaction in modern society. When this expression is limited, in addition to the functional consequences of the organism, it also has psychological and social consequences. The ARTHUR project developed a virtual surgery solution, applied to the bone and dental structure, capable of predicting the real impact on the patient's face mask. The solution is based on cloud and allows the clinical body to perform the virtual surgical planning, using cutting guides and plates or surgical guide lines, in a parameterized anatomical model of the head achieved through the fusion of three exams: TAC (CBCT), Intraoral Scan and 3D Stereo Photogrammetry. Above all, it is intended that, based on this planning and thanks to the parameterized anatomical model, it is possible to realistically forecast and represent the impact of the surgical intervention on the patient's face mask. This tool acts in different situations that require facial reconstruction, however this project focuses specifically on two types of use cases: bone congenital disfigurement and acquired disfiguration such as oral cancer with bone attainment. It is intended to be an intuitive and user friendly tool, which allows its use by less specialized technicians who can demonstrate the final results directly to the patient in the office. Able to predict visual impact with high realism and degree trust, will enable patients to participate more actively in the decision-making process therapy.

Biography

Miguel Oliveira has completed his PhD in 2010 from University of Aveiro and is a researcher in software development for several areas like medical emergency, culture and business solutions. He is the director of Software Development professional higher technical course, a short cycle higher education course. He has published more than 30 papers in reputed journals and has been serving as a reviewer member in several technical conferences like IEEE. He also lectures in Product and Digital Technology MSc and Production Systems Technology and Design and Product Technology undergraduate courses.



Miguel Oliveira

University of Aveiro, Portugal

Digital Health

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Tele-Speech Language Pathology in India

Telepractice is the application of telecommunication technology to the delivery of speech-language

pathology and audiology services at a distance by linking clinician to client or clinician to clinician for assessment, intervention, and/or consultation (ASHA website 2022). Speech-language pathology (SLP) is defined as the profession that engages in communication and swallowing across the life span. Tele-SLP in India is relatively a new field half a century old (Rao & Yashaswini, 2016). Although there are several challenges in the Tele-SLP vizs of lack of specific training for professional skills in Telepractice, lack of valid digital resources, lack of empirical studies on comparison between face-to-face, virtual or hybrid service delivery, lack of a solid mechanism to protect client's privacy on e-platforms (Rao & Yashaswini, 2016), the field is growing. In the past 3 years, post Covid-19 pandemic, Tele-SLP has also seen a boost due to the implementation of the Covid-19 safety protocol. The total number of sessions delivered from the Tele-Center for Persons with Communication Disorders has seen an increase of 36%-50% in the past three years. The usefulness of Tele-SLP in the management of Aphasia, Stuttering, and Speech Sound Disorders is already established. The SLPs taking a conservative approach were forced to use Tele-practice more extensively with meticulous planning and precautions in areas where telepractice was not explored. The present study attempts to project insights to telepractice in the management of Aphasia, Stuttering, Speech Sound Disorders. In addition, it also focuses on the challenges and ways to overcome those for subjective assessment of Dysphagia and implementation of Alternative Augmentative Communication with case studies.

Biography

Dr. Yashaswini R has completed her Ph.D from the All India Institute of Speech and Hearing affiliated to the University of Mysore. She has been serving as a Clinical Supervisor at the Tele-Center for Persons with Communication Disorders at the All India Institute of Speech and Hearing for six years. She has rich experience in tele-Speech-Language Pathology of 6 years. She has published research papers in national and international journals. She has also contributed book chapters on tele-practice

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Yashaswini Rangaswamy

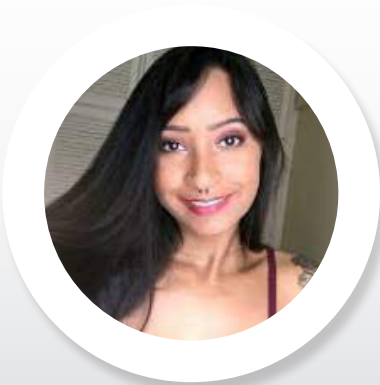
University of Mysore, India

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Evaluation of the usability of an application about Parkinson's Disease

The use of mobile technology has shown an important means of access to education, including in health, due to the ease of communication between health professionals and the population. Thus, the use of the mobile application (app) has become increasingly present in people's daily lives when it comes to health, with an increasing number of apps available in digital distribution stores of mobile applications. Based on this premise, the application (app) "Living with Parkinson" was created and registered, contains texts, videos, audios and images whose objective is to convey information in clear language and with an interactive layout based on accessibility principles. Assessing the usability of an application is important to identify the user needs, especially in health services, making it possible to include them in the development of health devices, ensuring their operation and safety for the user. Thus, the application was evaluated by experts in Human-Computer Interaction and individuals with Parkinson's Disease following Nielsen's Usability Heuristics. It was observed that the greatest interest in an application with this profile are parkinsonians with a recent diagnosis, who had minimal access to cell phones, WhatsApp and Google. In addition, it was possible to formalize a final version of the application after technical adjustments proposed by experts and add other information suggested by future users. The application achieved excellent usability defined by the Brooke scale in terms of user evaluation. It is concluded that facilitating strategies for greater adherence and facilitation of handling the device should be considered in usability studies.



Naira Rúbia Rodrigues Pereira

Naira Rúbia Rodrigues Pereira

Biography

Naira Rúbia Rodrigues Pereira is a Speech-Language Pathologist who graduated from the University of Brasília in 2017. She has a specialization in Intensive Care from the Multiprofessional Residency Program in Health at the Federal University of Goiás. And, currently, she is a Master's student in the Science in Rehabilitation Program at the University of Brasília, starting her career in scientific research with a focus on telemedicine and neurodegenerative disease.

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Digital Health

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Tele-Practice Model for Treatment of Aphasia: A Single Case Study

financial barriers. These attempts have only become more frantic as a result of the COVID-19 pandemic's unexpected spike in demand for tele-services. Speech-language pathologists cater to a wide variety of communication disorders with diverse needs for rehabilitation for speech, language and communication skills. Speech-Language Assessment and intervention programmes are frequently tailored to match the unique needs of each individual. As a result, providing tele-services necessitates a high level of adaptability at every step of speech, language therapy. This presentation aims to highlight the adaptive measures used specifically in a case with non-fluent aphasia secondary to left fronto-parietal tumour and study effectiveness of the tele-procedures used. Adaptation of evidence-based treatment techniques such as shape coding approach, oro-motor exercises, and eight-step continuum in Aphasia treatment originally developed for in-person therapy for telepractice will be discussed. To emphasise the value of tele-rehabilitation as a tool for providing consistent and customised intervention with well-defined goals, a descriptive report of improvement in speech and language skills on measures such as fluency, mean length of utterance, speech intelligibility etc will be provided. In addition, challenges such as computer illiteracy, low acceptability, and a lack of readily sourced digital resources and ways to overcome those in tele-practice for aphasia treatment will be discussed.

Biography

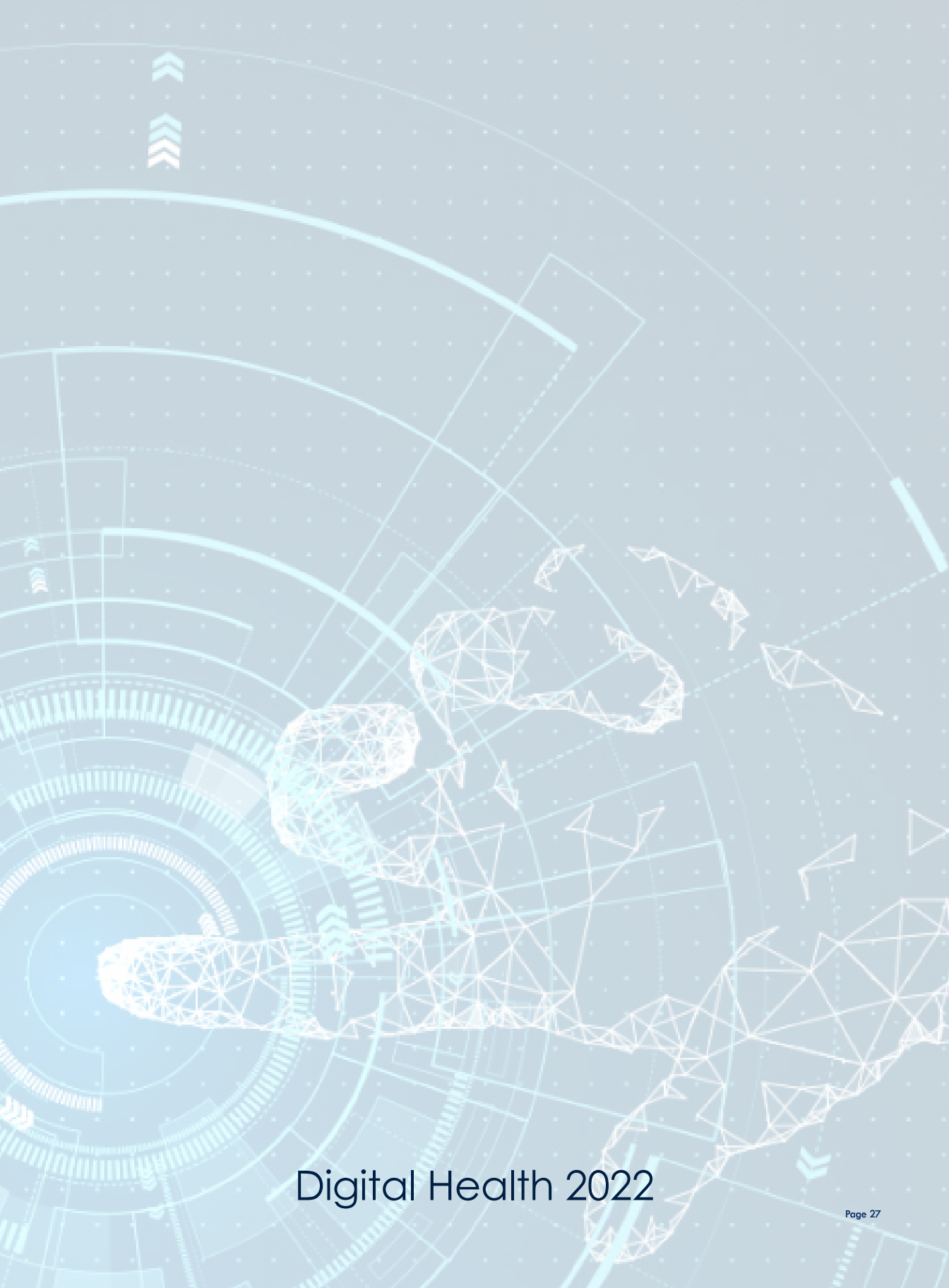
Dr. Yashaswini R has completed her Ph.D from the All India Institute of Speech and Hearing affiliated to the University of Mysore. She has been serving as a Clinical Supervisor at the Tele-Center for Persons with Communication Disorders at the All India Institute of Speech and Hearing for six years. She has rich experience in tele-Speech-Language Pathology of 6 years. She has published research papers in national and international journals. She has also contributed book chapters on tele-practice.

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Yashaswini Rangaswamy

University of Mysore, India



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Digital Health

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Boosting Digital Health Immunity through Connecting Social Justice against

Abdul Ali

University of Rajshahi, Bangladesh

Today we have to bear in mind the victims of all those who we have lost, who have fallen ill, and whose lives have been impacted by COVID-19, the Coronavirus. The materialistic world has shown us the potential for greed and selfishness that exists amongst those whose only interest is their self-interest. Corona Virus also has shown us the beauty and courage of those souls who stand up in the front lines against it. It has also shown us who are we and how inequity with the ugliest forms still exists in our society? Other than corporate privileged people who have lost their jobs have no means for rent, food, clothing, or healthcare and every justice or welfare system as proof themselves of how poor life does not matter less than their privileged counterparts. During the corona era, we observed that money dictates decisions, ethics, and morals are put to the side and with the direction of the winds of the privileged blow.

Biography

Md Abdul Alim is a Professor of law in the University of Rajshahi has graduated on American Legal System from Michigan State University (MSU) College of Law. He also did my Ph.D. on Gender Discrimination.

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Digital Health

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Redefining the Ethiopian Health sector transformation agenda of Health information revolution to innovative utilization of modern technologies- digitalization of Health information

Eyob Gebretsadik

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A health information system is one of the building block of a health system where all the other five building blocks depends on. However, most of the health information has not been optimally utilized for many reasons among which most of the components of health sectors namely district health office, district hospitals, district health center, and district health post or clinics have no access to user-friendly digital health information management system or lacks basic utilities of electric power and internet availability and access, lack of training or orientation on how to use it. Ethiopia had launched the paper and electronic health management information system in 2010 where the system lacks the capability of timely and appropriate collection and analysis of health information. Ethiopia has launched HSTP-1 with a rationale to revolutionize health information through appropriate and timely use of health and health-related event as an essential element in transforming the health sector's where prime users often receive compiled and analyzed periodic information for M&E of their interventions and performance. This chasm was not considered to be the root cause or not addressed if identified through renovation or redefining the use of innovation to utilization by the prime users along with end-users (managers, policy, and decision-makers). Hence, developing a HIS with the capability of creating provider' user accounts integrated with android applications store and orientation on the use are recommended to fill the existing chasm as a change idea for innovative improvement of health care through modern technologies.

Biography

Eyob Gebrehawariat Gebretsadik has completed his MD at the age of 25 years from Jimma University School of medicine and an MPH degree from Wollo University health science college. He is the national consultant for Quality of Care for Maternal, Neonatal, Child, and Adolescence Health, World Health Organization-Ethiopia country office. He has published more than 15 papers in reputed journals and has been serving and leading in several national TWG for developing quality and MNCAH strategies and led the evaluation of national projects and programs.

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Machine Learning in Implementing m Health Apps

Hongmei Chi

Florida A&M University, USA

While IoT devices and smart phones are becoming common in everyone life, mobile health reaches far beyond different health apps and educational tools. Emerging mHealth apps are changing the way patients track information related to diagnosed conditions and make decision about their treatment and choices of different drugs. A new study is examined how mHealth technologies impact of the patients' health and economic decisions, especially, how to identify patients' mental health among individuals with chronic medical conditions, such as heart disease, diabetes and cancer. Recently, AI techniques have experienced a resurgence following concurrent advances in computational power, large amounts of data, and theoretical development. ML architectures, a part of a broader family of AI, including deep neural networks (DNN), convolutional neural networks (CNN), and recurrent neural networks (RNN), have been applied to fields such as digital health. Many popular mHealth apps adopt Machine Learning (ML) algorithms. This talk aims to explore applications of Machine Learning in designing and implementing mental health application to detect mental health symptoms and risk factors and to develop predictions about disease progression through personalizing and optimizing therapies. This talk will give an overview of ML adopted by real-world mHealth apps and provide the sharing of the database, algorithms, and apps for the research files.

Biography

Dr. Hongmei Chi is Professor of the Department of Computer and Information Sciences at Florida A&M University. She served as director of FAMU center for cybersecurity. She has a broad base of research funding in scientific computation, cybersecurity, and data science. She teaches undergraduate and graduate courses in and network security and cryptography, artificial intelligence and scientific computation. Her research interests span many areas related to Big Data, parallel computing, mobile health security and cyber security. Her work in those areas has been published in top journals and conferences.

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Prediction of environmental indicators in land levelling using artificial intelligence techniques

Isham Alzoubi

Department of Surveying and Geomatics Engineering, Syria

The aim of this work was to determine best linear model Adaptive Neuro-Fuzzy Inference System (ANFIS) and Sensitivity Analysis in order to predict the energy consumption for land leveling. In this research effects of various soil properties such as Embankment Volume, Soil Compressibility Factor, Specific Gravity, Moisture Content, Slope, Sand Percent, and Soil Swelling Index in energy consumption were investigated. The study was consisted of 90 samples were collected from 3 different regions. The grid size was set 20 m in 20 m (20*20) from a farmland in Karaj province of Iran. The values of RMSE and R2 derived by ICA-ANN model were, to Labor Energy (0.0146 and 0.9987), Fuel energy (0.0322 and 0.9975), Total Machinery Cost (0.0248 and 0.9963), Total Machinery Energy (0.0161 and 0.9987) respectively, while these parameters for multivariate regression model were, to Labor Energy (0.1394 and 0.9008), Fuel energy (0.1514 and 0.8913), Total Machinery Cost (TMC) (0.1492 and 0.9128), Total Machinery Energy (0.1378 and 0.9103).Respectively, while these parameters for ANN model were, to Labor Energy (0.0159 and 0.9990), Fuel energy (0.0206 and 0.9983), Total Machinery Cost (0.0287 and 0.9966), Total Machinery Energy (0.0157 and 0.9990) respectively, while these parameters for Sensitivity analysis model were, to Labor Energy (0.1899 and 0.8631), Fuel energy (0.8562 and 0.0206), Total Machinery Cost (0.1946 and 0.8581), Total Machinery Energy (0.1892 and 0.8437) respectively, respectively, while these parameters for ANFIS model were, to Labor Energy (0.0159 and 0.9990), Fuel energy (0.0206 and 0.9983), Total Machinery Cost (0.0287 and 0.9966), Total Machinery Energy (0.0157 and 0.9990) respectively, Results showed that ICA_ANN with seven neurons in hidden layer had better. According to the results of Sensitivity Analysis, only three parameters; Density, Soil Compressibility Factor and, Embankment Volume Index had significant effect on fuel consumption. According to the results of regression, only three parameters; Slope, Cut-Fill Volume (V) and, Soil Swelling Index (SSI) had significant effect on energy consumption. Using adaptive neuro-fuzzy inference system for prediction of labor energy, fuel energy, total machinery cost, and total machinery energy can be successfully demonstrated.

Biography

Alzoubi has completed his PhD at the age of 40 years Tehran University and postdoctoral studies from Tehran University School of Surveying Geospatial Engineering-Department of Surveying and Geomatics Engineering. He is the director at the Directorate of Engineering and Transportation, a premier service organization. He has published more than 15 papers in reputed journals and has been serving as an editorial board member of repute. He Opening and studying the financial offers and the organization of the fundamental record, supervising the efficiency of electrical generators at Naseeb border center, and Supervising the efficiency of agricultural machinery at the ministry of agriculture.

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Deep Learning for Ventricular Beat Detection in Electrocardiogram

Kunwook Jo

SEERS Technology Co., Ltd, South Korea

Detecting ventricular beats in ECG monitoring is important to prevent the occurrence of dangerous arrhythmias such as ventricular fibrillation, ventricular flutter, and ventricular tachycardia. In particular, as these arrhythmias can lead to death within minutes, they need to be managed as real-time as possible. Therefore, finding a reliable detection method for ventricular beats may benefit cardiovascular monitoring systems. In this study, to detect ventricular beats, a semantic segmentation algorithm such as BiSeNet was used using the characteristic that ventricular beats show a morphological difference from normal beats. The algorithm has been partially redesigned for electrocardiographic one-dimensional data. The dataset for training the algorithm consists of 11280 clinical data with a 16-second strip length, of which 9024 were used as training data and 2256 were used as test data. One data is recorded at a sampling rate of 256 per second and is labeled as sample-by-sample in three classes: baseline, normal beat, and ventricular beat. The ratio of the number of beats for each class in the dataset is 21482 Normal beats (54.4%) and Ventricular beat 18007 (45.6%) out of a total of 39489 beats. The proposed method has better detection accuracy than other existing methods. The algorithm detected the normal beat with a sensitivity of 99.8%, and the ventricular beat with a sensitivity of 98.4%.

Biography

Kunwook Jo is a researcher working in the healthcare IT industry after getting a master's degree in artificial intelligence from Hanyang University in Korea. Kunwook is researching and developing real-time artificial intelligence technology that enables telemedicine services. The main research area is the processing of biosignals such as electrocardiograms, and recently he is developing deep learning models that can detect abnormal heartbeats and arrhythmias.

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Digital Technologies For Medicine: System For Analysis Of Harmful And Toxic Substances

Olena M. Klyuchko

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Digital technologies permit to invent powerful tools for medicine. In computer sciences expert systems were invented as models of experts' behavior in different fields (medicine, biology) basing on databases (DBs), and using procedures of logical conclusions and decision making [1]. The purpose of present work was on the base of examination of information systems with expert subsystems (their structure, functions, practical applications), to develop new expert system for solving practical problems in medicine, laboratory practice, environmental monitoring. Used methods: comparative research, program and imitation simulation, based on experimental results of neuronal chemoactivated transmembrane electrical currents recordings in voltage clamp mode. Such original expert system was developed with incorporated interface, detector groups, DBs. Expert system can automatically distinguish some types of input chemicals, output their characteristics and reports about harmfulness on display. Some novel regularities substance-effect were discovered and put in base of this expert system. Novel methods of qualitative and quantitative analysis of some organic compounds were developed on this base. Information about specificity and practical value of developed expert system will be suggested. It can be used for medical purposes, monitoring of toxic and harmful substances in organism or environment, etc.

Biography

Olena (Elena) Klyuchko- has 3 specialties: PhD (biophysics), Magisterial (computer sciences), Bachelor (linguistics). Obtained her education in the best Universities of Ukraine, Italy, Great Britain. She worked as researcher for a long time at Kyiv Institute of Physiology and Elbrus Medico-Biological Station of National Academy of Sciences, Ukraine (EMBS NANU), etc. She specialized in biophysics of the brain, influence of chemicals on organisms, development of information technologies for medicine and biology (including information system for monitoring of chemicals in environment "EcolS" with telecommunication elements). Currently she is Associate Professor of National Aviation University (Kyiv, Ukraine); has 262 scientific publication.

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Digital Health

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The Evolution of Digital Healthcare

Stanley Shepherd

Health One Global Limited, United Kingdom

The advancement of healthcare necessitates a global ecosystem collaboration that focuses on creating extraordinary experiences for patients and healthcare practitioners. In this session, Dr. Stanley Shepherd, Reach Healthcare Faculty and Councillor of the Royal Society of Medicines Digital Health Division will share insights from Reach's research on clinician adoption and attitudes regarding digital health technologies. Together, we will explore the necessary steps to ensure digital health inventions are responsive to the diverse needs and expectations of patients and their care providers; provide recommendations on approaches to the advancement of digital health solutions; and methods of leveraging data science to improve one's health and wellness journey.

Biography

Dr Stan Shepherd gained his first degree in Aeronautical Engineering (BSc) and flew as an RAF pilot for 6 years before qualifying in Medicine in England. In 1984 Dr Shepherd introduced electronic health records into his medical practice. He is a Family Physician in a deprived, high demand, multi-ethnic, multi-lingual, inner-city practice in the East End of London with 13,000 patients from all around the world. His medical practice is fully computerized and paperless. He is CEO and founder of Instant Access Medical Limited providing evidence-based electronic personal care pathways to be shared by clinicians and patients. Instant Access Medical is the exclusive National Children's Oral Health Foundation Global Partner for electronic health records. He is CEO and co-founder of Health One Global Limited, an international healthcare software company with users in Ireland, Belgium, France, Switzerland, and South Africa. Since 2003 Health One Global has been the exclusive Special Olympics Healthy Athletes Global Partner for electronic health records and provides and manages the Internet based Healthy Athletes Software used by Special Olympics at 900 events annually world-wide to record Healthy Athletes screening data in a single global database is now the world's largest, richest and most comprehensive database on the health parameters of people with intellectual disability.

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Automated Arrhythmia Detection and Classification Using modified Link Net and Attention Mechanism

Yun Kwan Kim

Korea University, Republic of Korea

The diagnosis and classification of arrhythmia, which is associated with abnormal electrical activity in the heart, are critical in the clinical treatment of the condition. Previous studies have been made to derive only one arrhythmia in a given window, but the length of the arrhythmia is not determined, so multiple arrhythmia may exist in the input window. In studies that classified for multiple arrhythmia types in the given input, the classification performance was not good enough for clinical use because of mixed arrhythmia types. In this paper, we propose a novel framework for automatic detection and classification, which consists of combining encoder and decoder network inspired by Linknet and a channel-wise attention block to solve to problem of arrhythmia detection and classification in constrained input length. Specifically, eight arrhythmia types, including atrial fibrillation, were classified using electrocardiogram signals. In addition, we used the time-shifting oversampling technique to solve the class imbalance problem. As a result, 8-class performance using ECGs collected with SEERS Technology was calculated, all with an overall mean-average precision of over 90%. In addition, the overall F1-score obtained 94.66%. The proposed framework can identify the time of occurrence and end of multiple arrhythmias in a fixed input. With this, it is possible to more accurately recognize various occurrences of arrhythmias, calculate the occurrence time, and make an accurate treatment plan accordingly.

Biography

Yun Kwan Kim has completed his M.S from Sungkyunkwan University School of Cognitive Science. He has been serving as an senior researcher of SEERS Technology.

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