

Parallel Oral Presentations (BioMed-APOSM2024)*

DAY 1: 21st August 2024 (Wednesday)

Oral presentation 1: 10:45 a.m. – 12:00 p.m.

MAIL HALL

Room 1

Room 2

B. Lower Limb Prosthetics & Orthotics

P. Artificial Intelligent in Biomedical Engineering & Rehabilitation

N. Tissue and Organ Engineering, L. BIOMEMS and Biomaterial

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MRAK

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#4: Kinematic And Kinetic Comparisons Of Microprocessor-Controlled Prosthetic Knee & Feet During Treadmill Slopes Ascend And Descend Walking Of Unilateral Trans-Femoral Amputee
Author: Woo Sung Seong

#7: Lower-Limb Orthosis And Service Satisfaction Scale: A Study With Stroke Patients In Japan
Author: Kento Sato

#8: Effect Of Solid Ankle-Foot Orthosis On Paretic Ankle Muscle Contraction Pattern Of Sub-Acute Stroke Survivors During Walking: A Pilot Study Utilizing State-Of-The-Art Wearable Dynamic Ultrasound Imaging
Author: Christina Zong-Hao Ma

#13: Association Of Stump Length With Temporo-Spatial And Kinematic Outcomes Of Transfemoral Amputees
Author: Aqsa Ali Khan

#21: Time Since Amputation Has Little Effect On Vertical Ground Reaction Force During Gait In Individuals With Unilateral Transfemoral Amputation
Author: Takeshi Hara

#37: Awareness, Need, And Use Of Outcome Measure In Thai Prosthetists & Orthotists
Author: Supaporn Sarapoke

#43: Deep Learning For The Differential Diagnosis Of Bloodborne Pathogens: A Convolutional Neural Network Model
Author: Natthanai Chaibutr

#57: Development Of Automated Predictive Model For Diabetic Retinopathy Identification Using Fundus Images
Author: Muhammad Afiq Haiqal Bin Mohd Abu Bakar @ Fadzil

#78: Sleep Classification Using Transformer-Based Models: A Preliminary Study
Author: Yuiin Torng Yew

#88: Diabetes Disease Prediction Using Machine Learning Techniques
Author: Fatema H Joya

#11: Crafting A Cutting-Edge Chitosan-Based Scaffold From Vannamei Shrimp Shell For Bone Tissue Engineering
Author: Agustina Setiawati

#18: Evaluation Of Normal Saline And Phosphate-Buffered Saline In Characterizing Biomechanical Properties Of Articular Cartilage
Author: Mohd Juzaila Abd Latif

#54: Fabrication Of Carboxymethyl Cellulose Hybrid Scaffold From Office Paper Waste For Tissue Engineering Applications
Author: Nurin Haziqah Jasrin

#31: Facile Naked-Eye Cancer Detection Based On Controllable Sol-To-Gel Transformation Of Glutathione-Responsive Mineralized Hydrogel
Author: Akhmad Irhas Robby

#55: Recycling Of Polyethylene Terephthalate Plastic Bottle Wastes For The Development Of Potential Sustainable Prosthetic Socket Materials
Author: Nur Aina Syafiqah Binti Suhaimi

DAY 1: 21st August 2024 (Wednesday)

Oral presentation 2: 04:00 p.m. – 05:30 p.m.

MAIL HALL

Room 1

Room 2

B. Lower Limb Prosthetics & Orthotics	A. Rehabilitation & Assistive Devices	R. Medical Imaging, Q. Bioinstrumentation & U. Biosignal, Image and System
<p>#22:Dynamic Stability And Coordination Of Lower Limb In Transfemoral Ampuees According To Prosthetic Sockets Author: Chang-Yong Ko</p>	<p>#6:Quasi-Experimental Study To Compare The Intermediate Clinical Outcomes Between Circumferential And Asymmetrical Helmet Design In Positional Plagiocephaly Author: Sin Wa Lam</p>	<p>#58:Ssunet: Swin Transformer And Shuffle Attention U-Net For Retinal Vessel Segmentation Author: Yangzhouling Ou</p>
<p>#24:The First And Last Step Preference During Walking In Individuals With Unilateral Transfemoral Amputation Author: Ryota Morishima</p>	<p>#10:Interest And Engagement Of Lower Primary School Children In Biomechanics Learning Using Lego Author: Nur Azah Hamzaid</p>	<p>#32:Application Of Clinical Ultrasound For Estimation Of Bone Quality In Patients With Adolescent Idiopathic Scoliosis Author: Lok Yi Ho</p>
<p>#25:Systematic Classifications Of The Sit-To-Stand Patterns In Individuals With Unilateral Transfemoral Amputation Author: Yukihiko Mizuno</p>	<p>#12:Development Of A 3D Printed Upper Extremity Exerciser For Telerehabilitation Of Patients With Stroke Author: Davis James Abenir Yu</p>	<p>#64:Automated Assessment Of Traumatic Head Injuries Through Segmentation Of Skull Fractures And Brain Hematomas Using Deep Learning Author: Sikander Khan</p>
<p>#33:Effect Of Ankle-Foot Orthosis On Paretic Dorsiflexor And Plantar Flexor Contraction Pattern Of Post-Stroke Patients During Walking: A Pilot Study Author: Christina Zong-Hao Ma</p>	<p>#14:Influence Of Body Mass Index On Orthotic Treatment Outcomes Of Adolescent Idiopathic Scoliosis Author: Shan Liu</p>	<p>#56:Gold As A Sensing Platform In Surface Plasmon Resonance Biosensor For Preliminary Characterization Of Human Wharton'S Jelly Stem Cells Author: Miruna Bte Mohd Ariffin</p>
<p>#36:Experimental Investigation Of Temperature Distribution At Skin-Orthopedic Boot Interface Author: Pushkaraj Vinay Ambalgi</p>	<p>#15:Reliability Study Of Temperature Sensor In Assessing Orthosis Wear Compliance Of The Patients With Adolescent Idiopathic Scoliosis Author: Lejun Zhou</p>	<p>#60:Sensitivity Enhancement Of Surface Plasmon Resonance Sensing Platform With Carboxyl Molybdenum Disulfide Nanosheet Author: Salmah Binti Karman</p>
<p>#40:Transtibial Operative Model Author: Juan Diego Yang</p>	<p>#19:Retrospective Analysis Of Physical Characteristics In Stroke Hemiplegic Patients Using Knee-Angle-Foot Orthoses Author: Takuma Watanabe</p>	<p>#5:The Influence Of Surface Modification By Polyethylene Glycol And Tween Polymer On The Shortwave Infrared Emission Properties Of Rare-Earth-Doped Nanoparticles Author: Mohd Yaqub Khan</p>

DAY 2: 22nd August 2024 (Thursday)

Oral presentation 3: 09:15 a.m. – 10:15 a.m.

MAIL HALL

Room 1

Room 2

B. Lower Limb Prosthetics & Orthotics

A. Rehabilitation & Assistive Devices

D. Medical Devices & Technologies

#45:Comparative Finite Element Analysis Of The Biomechanical Characteristics Of 3D-Printed Prosthetic Feet
Author: Abdel Rahman Nedal Al Thahabi

#46:Temperature Parameter For Prosthetics Socket Interface
Author: Ibtissam Elghailassi

#48:A Survey Of The Factors Can Influence Prosthetist Clinical Judgment During Alignment Of A Transtibial Prosthesis In Malaysia, Jordan And Saudia Arabia.
Author: Mohammad Malaheem

#49:Enhancing Robotic Knee Joint Efficiency: Exploring Tooth Profile Geometry In Cycloidal Drive Design
Author: Isha Nafisa Quazi

#23:A Systematic Review Of The Corrective Forces Applied Via Spinal Orthotic Treatment For Adolescent Idiopathic Scoliosis
Author: Changliang Luo

#26:Epidemiological Survey Of Amputees In Hyogo Prefecture, Japan
Author: Isao Ojima

#30:Utility Of Customized 3D Compression Mask With Pressure Sensors On Facial Burn Scars: A Single-Blinded, Randomized Controlled Trial
Author: Yoon Soo Cho

#34:Effect Of Different Spinal Orthosis Corrective Forces On Patients With Adolescent Idiopathic Scoliosis
Author: Hui_Dong Wu

#27:Effect Of Fixation Using Implant Plates Made Of Titanium Alloys With Different Young'S Moduli On Callus Formation During Bone Healing
Author: Masaaki Nakai

#29:Integration Of Force And Thermal Sensors To Enhance Orthotic Treatment Monitoring For Adolescent Idiopathic Scoliosis (Ais)
Author: Yiyng Zou

#53:Exploring The Impact Of Self-Managed Heat Therapy On Physiological Parameters In Adults With Lower Back Pain Or High Blood Pressure
Author: Teoh Jing Ru

#85:Challenges And Future Directions Of Virtual Reality In Rehabilitation: A Review
Author: Lai Koi Qi

DAY 2: 22nd August 2024 (Thursday)

Oral presentation 4: 12:00 p.m. – 01:00 p.m.

MAIL HALL

Room 1

Room 2

B. Lower Limb Prosthetics & Orthotics

E. CAD/CAM Technology towards Biomedical Engineering & Rehab, C. Upper Limb Prosthetics & Orthotics

O. Education, Emerging and Multidisciplinary in Biomedical Engineering, Prosthetics and Orthotics

#51:Filipino Rehabilitation Professionals' Perceptions On The Potential Usage Of Medical Chatbots In Lower Extremities Amputee Rehabilitation: A Descriptive Study
Author: David Lenard Medina Palima

#41:Spatial Visualisation Ability In Prosthetics And Orthotics Students: A Pilot Study
Author: Aileen Wong

#42:Visual Arts Implementation In Improving Sleep Quality Among Varsity Students: A Case Study
Author: Beatrice Qin Thon See

<p>#59:Transibial Residual Limb Volume Fluctuation: Effect Of Level Of Health Author: Mohd Tajularif Ibrahim</p>	<p>#50:A Narrative Review On The Application Of Computer-Aided Design And Manufacturing In The Customization Of Spinal Orthoses For The Management Of Adolescent Idiopathic Scoliosis Author: Babak Hassan Beygi</p>	<p>#71:The Effect Of Music Intervention On The Sleep Quality: A Preliminary Study Author: Putri Alya Zubaidah Wan Azmi</p>
<p>#61:Demographic And Characteristics Of Prosthesis Recipients Via Social Security Coverage In Malaysia: A 5-Year Retrospective Study Author: Kenneth Tan</p>	<p>#52:Temperature Alteration Measurement Of Mock Transradial Prosthetic Socket With Wireless Sensors Author: Kengo Ohnishi</p>	<p>#86:Navigating Employment With Lower Limb Amputation - Insights From Perkeso Contributors In Malaysia Author: Musfirah Abd Aziz</p>
<p>#62:A Novel Of Feature Extraction And Classification Of 7 Phases Of Gait Cycle Through Machine Learning Models Using Peizoelectric Sensors: Active Prosthetic Leg Author: Nur Hidayah Mohd Yusof</p>	<p>#77:Relationship Between The Hook Rubber Bands And Traction Force Of Body Powered Upper Limb Prosthesis Author: Hironori Suda</p>	<p>#90:Research On The Construction Path And Implementation Strategies Of Data Governance In Medical Colleges Based On Artificial Intelligence Author: Zhiqiang Hao</p>

DAY 3: 23rd August 2024 (Friday)

Oral presentation 5: 03:00 p.m. – 04:30 p.m

MAIL HALL

Room 1

Room 2

<p>B. Lower Limb Prosthetics & Orthotics</p>	<p>A. Rehabilitation & Assistive Devices</p>	<p>M. Computational Modelling and Artificial Organ, I. Human Movement and Robotic, J. Sports Biomechanics</p>
<p>#63:Exploring Reference Gait Parameters For Lower Limb Amputees Through Clinical Data Author: Keigo Yamauchi</p> <p>#66:Prosthetic Gait Analysis Using A Wearable Motion Capture System Author: Takashi Nakamura</p>	<p>#35:Could The Concept Of Plane Of Maximum Curvature Lead To More Effective Orthotic Management Of Adolescent Idiopathic Scoliosis: A Pilot Study Author: Ho Man Kee</p> <p>#39:Prosthetic And Orthotic Workforce In Thailand: A National Survey In 2023 Author: Sirirat Seng-lad</p>	<p>#16:Biomechanical Responses Of Different Corrective Forces Acting On The Scoliotic Spine Reconstructed From Patient-Specific Finite Element Modelling Author: Shang Linjing</p> <p>#82:Towards Automated Classification For Scoliosis: Preprocessing Stage Author: Mouaz Al Kouzbary</p>

<p>#72:Functional Socket With Fused Deposition Modelling: Material And Bacteria-Surface Interaction Author: Hsin Hui Wong</p>	<p>#47:Improving Muscle Evaluation Techniques In Rehabilitation: A Novel Fsr Cuff System Design For Assessing Muscles During Descent And Ascent Stair For Lower Limb Author: Khaled Nedal Sobh</p>	<p>#17:Investigation Into The Kinetic Loading Characteristics Of The New Elite Foot In Stance Author: Raed Alkhatab</p>
<p>#73:Customized Stiffness For Prosthetic Foot With Anisotropic Structure Author: Chia Hui Ying</p>	<p>#76:Smart Prosthetics Foot: Customized Design And Remote Care Author: Kwong Jia Er</p>	<p>#79:The Influence Of Target Parameters In Tenpin Bowling Performance; A Preliminary Study Author: Azrena Zaireen Ahmad Zahudi</p>
<p>#75:Type-Two Fuzzy Logic Impedance Control For Powered Ankle-Foot Prosthesis: Cross-Terrain Study Author: Joslyn Kx Yeoh</p>	<p>#84:A Century Of Robotic Exoskeleton Study – A Bibliometric Analysis Author: Sorfina Ilham Rozman</p>	<p>#83:Upper Limb Biomechanical Analysis On Recreational Archery Games Author: Nur Rasyidah Hasan Basri</p>
<p>#80:Postural Stability Of Elderly Bilateral Transtibial Amputees : Effect On Substitution The Prosthetic Feet Author: Nik Khairul Anwar Nik Adek</p>	<p>#87:Deformed Head Shapes- Neglected Entity Author: Dr. Swagatika Mishra</p>	<p>#81:Comparative Investigation Of Prosthetic Foot Design And Materials For Lower Limb Amputees: A Study Of Finite Element Analysis Author: Agus Setyo Setyo Nugroho</p>

**Subjected to change*