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The patents listed below are open to authorization. Please contact CAIC Chang Gung for more information.

資訊領域 Information Technology

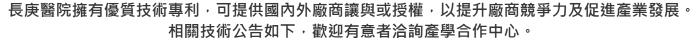| No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
1	P10513	盧章智 ZHANG-ZHI LU	智慧型特徵質譜圖譜與鑑別模型建立之方法以及分析鑑別微生物表徵之方法 **Method of Creating Characteristic Peak Profiles of Mass Spectra And Identification Model For Analyzing And Identifying Microorganizm:** A machine learning method and the integrated vectors generated from all known isolates are used to create a classification model for microorganism identification.	USA	Invention	US 10930371
2	P10522	褚柏顯 PAO-HSIEN CHU	資料整合方法 **Method For Data Consolidation:** Consolidating multiple databases to assist medical teams in assessing if a patient could have more chronic diseases while already having one.	China	Invention	CN 108630287B
				Taiwan	Invention	TW I640018

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
3	P10527	王兆弘 CHAO-HUNG WANG	數位化營養狀態、肌肉生成代謝運轉狀態及風險評估的方法 **Method of Digitizing Nutritional Status, Muscle Turnover, And Risk Assessment:** A new calculation method for assessing the nutrient and muscle growth condition of a person using the measurement of 4 amino acids to understand the outcome of rehabilitation or diet control.	China	Invention	CN 107919170B
				Taiwan	Invention	TW I626444
4	P10530	林啟文 CHI-WEN LIN	電子系統及伺服器 **Medical Information Processing System And Server Thereof:** To automate the process of completing the payment of inpatient treatments from a patient's insurance coverage.	Taiwan	Invention	TW I656536
				Taiwan	Utility Model	TW M538207
5	P10536	陳品元 PIN-YUAN CHEN	外科手術輔助系統 **Surgery Assistant System:** A system consolidating the signals from different brain areas of a patient and display the information using augmented reality during awake craniotomy.	Taiwan	Invention	TW I636768

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
6	P10605	盧章智 ZHANG-ZHI LU	以機械學習演算法分析檢驗數值以偵測體液中微生物的方法 **Method of Using Machine Learning Algorithms in Analyzing Laboratory Test Results of Body Fluid to Detect Microbes:** A new artificial intelligence model to determine whether the microbes is present in body fluid collected from a patients.	China	Invention	CN 109830260A
				USA	Invention	US 20190147136A1
7	P10614	陳智光 ZHI-GUANG CHEN	預測失能者日常生活功能之方法 **Method of Predicting Daily Activities Performance of A Person With Disabilities:** A new artificial intelligence model based on a plurality of rehabilitation evaluation scales and laboratory data to predict future activities of daily living performance for the participant.	China	Invention	CN 109841279A
				Taiwan	Invention	TW I649699
				USA	Invention	US 20190216368A1
8	P10615	盧章智 ZHANG-ZHI LU	以心血管標誌及機械學習運算法進行冠心症篩檢的方法 **Coronary Artery Disease Screening Method by Using Cardiovascular Markers and Machine Learning Algorithms:** A new artificial intelligence model for early stage coronary artery disease diagnosis.	China	Invention	CN 109841278A
				Taiwan	Invention	TW I641963
				USA	Invention	US 20190221309A1

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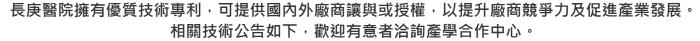| No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
9	P10704	陳智光 ZHI-GUANG CHEN	以免疫標記及視覺化方式建立免疫疾病輔助判讀模型的方法 **Method For Establishing Computer-Aided Data Interpretation Model For Immune Diseases By Immunomarkers And Visualization:** An artificial intelligence model combining a plurality of immunomarkers into an immunomarker panel to provide real-time analysis of multiple immune disease data to medical professionals for their reference.	China	Invention	CN 110346564A
				USA	Invention	US 11011276
10	P10705	張尚宏 SHANG-HUNG CHANG	偵測藥物相互影響產生副作用之方法及其系統 **Method And System For Detecting Side Effect of Drug Interaction:** An automated drug interaction and side effect assessment system.	Taiwan	Invention	TW 201915799
11	P10711	徐琦澂 CHI-WEI HSU	偵測肢體位移之復健遊戲系統 **Rehabilitation Game System:** New computer games dedicated to stroke patients for rehabilitation.	Taiwan	Utility Model	TW M571760

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
12	P10714	郭昶甫 CHANG-FU KUO	自體免疫抗體免疫螢光影像型態識別方法 **Pattern Recognition Methodof Autoantibody Immunofluorescence Image:** An artificial intelligence model that processes autoantibody immunofluorescence images and identifies the patterns in them to assist medical examiners in diagnosing autoimmune diseases.	China	Invention	CN 110443105A
				European Union	Invention	EP 3564857A1
				USA	Invention	US 10943157
13	P10717 &28	蘇建豪 CHIEN HAO SU	智能化急性腎損傷藥物警示系統 **Drug-Targeted AKI E-Alert System:** A system which automatically monitors the creatinine levels of a patient and alarms the medical team if AKI symptoms are detected.	Taiwan	Utility Model	TW M586446
				Taiwan	Invention	TW I692777
14	P10718	郭昶甫 CHANG-FU KUO	自體免疫抗體免疫螢光影像分類系統及其分類方法 **Classification System And Method of Autoantibody Immunofluorescence Image:** An artificial intelligence model that processes autoantibody immunofluorescence images and provides classification results to assist medical examiners in diagnosing autoimmune diseases.	China	Invention	CN 110543806A
				European Union	Invention	EP 3576011A1
				Taiwan	Invention	TW I705414
				USA	Invention	US 10937521

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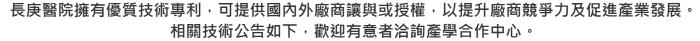| No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
15	P10805 &34	陳錦宏 VINCENT CHIN-HUNG CHEN	以多特徵磁振造影與機器學習預測有自殺意念之憂鬱症患者 Evaluation Method And System For Suicidal Ideation Based On Multi-Feature Magnetic Resonance imaging And Artificial Intelligence: An artificial intelligence model to predict the risk of suicide based on MRI images.	Taiwan	Invention	TW 202128080
				Taiwan	Utility Model	TW M595486
16	P10810	廖健宏 CHIEN-HUNG LIAO	分析醫學圖像之方法及系統 Method And System of Analyzing Medical Images: An artificial intelligence model that processes autoantibody immunofluorescence images and identifies the patterns in them with 96% accuracy to assist medical examiners in diagnosing autoimmune diseases.	Japan	Invention	JP 2020062378A
				Singapore	Invention	SG 10201907613PA
				Taiwan	Invention	TW I701680
				USA	Invention	US 11080852
17	P10818	林育駿 YU-CHUN LIN	磁共振影像的分割方法 Fully-Automated Tumor Segmentation of Cervical Cancer And Extraction of Diffusion-Weighted MR Radiomics Features: An artificial intelligence model which identifies and divides a cervical cancer tumor based on MRI images.	Taiwan	Invention	TW I727741

資訊領域 Information Technology

No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
18	P10821	陳孟琪 MENG-CHI CHEN	口腔放射影像辨識方法及口腔放射影像辨識系統 **Oral Radiography Image Identification Method And Oral Radiography Image Identification System:** An artificial intelligence model that identifies different oral radiography images.	Taiwan	Invention	TW I712393
19	P10904-05	陳濘宏 NING-HONG CHEN	一種通道資訊處理系統及其方法 **A Channel Information Processing System:** An artificial intelligence model that detects and alerts abnormal sleep behavior based on a set of physical data.	Taiwan	Invention	TW I756793
				Taiwan	Invention	TW I748485
20	P10910	林建志 CHIEN-CHIH LIN	辨識新生兒癲癇發作之通道資訊處理系統及其方法 **Method for identifying types of neonatal seizures**: An artificial intelligence model which identifies seizure symptoms in new born babies based on EEG data.	Taiwan	Invention	TW 202228148

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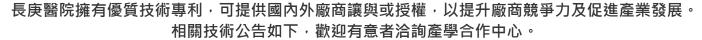| No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
21	P10911	蕭庭毅 TIING-YEE SIOW	三維醫學影像的建立方法 **Method For Establishing Three-Dimensional Medical image:** An artificial intelligence model which generates supplement images from a set of angiography results. The model may reduce the radiation amount a patient has to be exposed to.	Taiwan	Invention	TW 202141517
				USA	Invention	US 20210334958A1
22	P10914	許茜甯 QIAN-NING XU	智慧化用藥暨健康管理系統 **Intelligent Medication And Health Management System:** An information system which analyzes the interactions between a patient's prescriptions and diet to provide health suggestions.	Taiwan	Utility Model	TW M595871
23	P10915	裴育晟 YU-CHENG PEI	產生用於估測骨質密度的模型的方法、估測骨質密度的方法及電子系統 **Method For Generating Models to Estimate Bone Density, Method For Estimating Bone Density, And Electronic System:** An artificial intelligence model which predicts the risk of osteoporosis based on X ray images.	China	Invention	CN 113303817A

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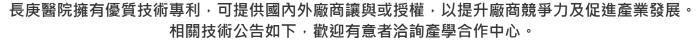| No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
24	P10917	林郁智 YU-CHIH LIN	產生用於自動定位出定位點的模型的方法、骨骼狀態分析方法及電子系統 **Automatic Landmark Detection And Alignment Analysis System of Musculoskeletal Radiographs:** An artificial intelligence model which generates alignment points to assist in hip replacement surgeries.	Taiwan	Invention	TW I753412
25	P10925	高軒楷 HSUAN-KAI KAO	利用深度學習分析髖關結狀態的方法及電子系統 **A Deep Learning System Analyzing Hip Joint Growth Condition Based on Ultrasound Images:** An artificial intelligence model which identifies hip joint growth condition of a new-born baby.	Taiwan	Invention	TW I746109
26	P10908 &35	林偉哲 WEI-CHE LIN	喉部異物辨識裝置 **System And Method of Throat Abnormal Object Recognition:** An artificial intelligence which identifies abnormal objects in a patient's throat based on X-ray images.	Taiwan	Utility Model	TW M609723
				Taiwan	Invention	TW 202211251
				USA	Invention	US 11197645
27	P11050	陳錦宏 VINCENT CHIN-HUNG CHEN	基於大腦聯結體特徵預測憂鬱症及不同自殺傾向之深度學習評估系統 **Deep Learning Evaluation System For Predicting Depression And Different Suicidal Tendencies Based on The Characteristics of Brain Connections**	Taiwan	Utility Model	TW M620643

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
28	P11001	賴旗俊 CHI-CHUN LAI	人工智慧輔助視網膜疾病診療輔助系統 **Artificial Intelligence For Diagnosis And Treatment of Common Retinal Vascular Diseases**	Taiwan	Invention	TW 11026758
29	P11004	陳宏彰 HUNG-CHANG CHEN	眼部數值量測系統及其方法 **Smartphone-Based, Deep Learning Prediction Method And System For Eye Measurements:** An artificial intelligence model which measures eye data to assist in eyelid surgery evaluation based on photos taken by common smart phones.	Taiwan	Invention	TW 110131856
30	P11011	連育誠 YU-CHENG LIEN	通過機械學習演算法進行菌血症評估的方法及系統 **Method And System For Bacteremia Evaluation Using Artificial Intelligence**	Taiwan	Invention	TW 110105052
31	P11017	陳一伶 YI-LING CHEN	視覺化及智能化醫療照護整合系統 **Visualization Dashboard And Consolidation System For Critical Care:** Combining multiple databases to monitor critical patients on a more real-time basis.	Taiwan	Utility Model	TW M623474

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No.	Project No.	Primary Inventor	Patent Summary	Patent Country	Patent Type	Patent No.
32	P11020	吳靖農 CHING-NUNG WU	分析眼振感測資料的方法及眼振感測分析系統 **Deep Learning Method And System For Analyzing Videonystagmography:** An artificial intelligence model providing vertigo diagnosis suggestions based on a patient's videonystagmography.	Taiwan	Invention	TW I746381
33	P11039	陳孟琪 MENG-CHI CHEN	口內攝影智慧輔助裝置 **Intraoral Photography Intelligent Assisting Apparatus:** A half-automatic dental x-ray machine.	Taiwan	Invention	TW I768980
34	P11054	郭昶甫 CHANG-FU KUO	提供骨折檢測工具的方法 **Method For Providing Fracture-Detection Tool:** An artificial intelligence model which identifies overt fracture or occult fracture based on X-ray images.	China	Invention	CN 113450306A
				USA	Invention	US 20210275123A1
35	P11106	黃耀廣 YAO-KUANG HUANG	利用非顯影劑增強觸發周邊血管造影獲取下肢動靜脈影像之方法 **Non Contrast Media Enhancement Imaging For Arteries And Veins of The Lower Limbs:** A new imaging method to diagnose vascular diseases in the lower limbs.	Taiwan	Invention	TW I740594