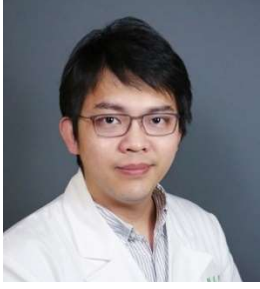


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Research Interests: (Key words)	Sinoatrial node function, Arrhythmia, Electrophysiology, Ablation, Artificial intelligence			
Selected Publications (in recent 5 yr):	<ol style="list-style-type: none"> Liu CM, Lin CY, Chang SL, Lin YJ, Lo LW, Hu YF, Chao TF, Chung FP, Tuan TC, Liao JN, Chen YY, Te ALD, Yamada S, Kuo L, Li HY, Chang TY, Minh HQ, Salim S, Ba VV, Vicera JJB, Wu CI, Chuang CM, Huang TC, Hsieh YC and Chen SA. Intermediate Pause at Daytime Is Associated With Increased Cardiovascular Risk and Mortality: An 8-Year Cohort Study. <i>Journal of the American Heart Association</i>. 2018 Jun 12;7(12): e009034. Liu CM, Lo LW, Lin YJ, Lin CY, Chang SL, Chung FP, Chao TF, Hu YF, Tuan TC, Liao JN, Chen YY, Kuo L, Chang TY, Hoang QM, Salim S, Vicera JJB, Wu CI, Chuang CM, Huang TC and Chen SA. Long-term efficacy and safety of adjunctive ethanol infusion into the vein of Marshall during catheter ablation for nonparoxysmal atrial fibrillation. <i>Journal of cardiovascular electrophysiology</i>. 2019; 30:1215-1228. Chen HH, Liu CM, Chang SL, Chang PY, Chen WS, Pan YM, Fang ST, Zhan SQ, Chuang CM, Lin YJ, Kuo L, Wu MH, Chen CK, Chang YY, Shiu YC, Chen SA and Lu HH. Automated extraction of left atrial volumes from two-dimensional computer tomography images using a deep learning technique. <i>International journal of cardiology</i>. 2020; 316:272-278. First author-equal contribution. 			

<p>Selected Publications (in recent 5 yr):</p>	<ol style="list-style-type: none"> 4. Liu CM, Chang SL, Chen HH, Chen WS, Lin YJ, Lo LW, Hu YF, Chung FP, Chao TF, Tuan TC, Liao JN, Lin CY, Chang TY, Wu CI, Kuo L, Wu MH, Chen CK, Chang YY, Shiu YC, Lu HH and Chen SA. The Clinical Application of the Deep Learning Technique for Predicting Trigger Origins in Patients With Paroxysmal Atrial Fibrillation With Catheter Ablation. <i>Circulation Arrhythmia and electrophysiology</i>. 2020; 13:e008518. 5. Liu CM, Lin FZ, Chen YC, Lin YK, Lu YY, Wu CI, Higa S, Chen SA and Chen YJ. Concurrent increases in post-pacing action potential duration and contractility predict occurrence of ventricular arrhythmia. <i>Pflugers Arch</i>. 2020;472:1783-1791. 6. Liu CM, Chang SL, Yeh YH, Chung FP, Hu YF, Chou CC, Hung KC, Chang PC, Liao JN, Chan YH, Lo LW, Wu LS, Lin YJ, Wen MS and Chen SA. Enhanced detection of cardiac arrhythmias utilizing 14-day continuous ECG patch monitoring. <i>International journal of cardiology</i>. 2021 Jun 1; 332:78-84. 7. Liu CM, Liu CL, Hu KW, Tseng VS, Chang SL, Lin YJ, Lo LW, Chung FP, Chao TF, Tuan TC, Liao JN, Lin CY, Chang TY, Fann CS, Higa S, Yagi N, Hu YF and Chen SA. A Deep Learning-enabled Electrocardiogram Model for the Identification of a Rare Inherited Arrhythmia: Brugada Syndrome. <i>Can J Cardiol</i>. 2022 Feb;38(2):152-159. 8. Liu CM, Shih ESC, Chen JY, Huang CH, Wu IC, Chen PF, Higa S, Yagi N, Hu YF, Hwang MJ and Chen SA. Artificial Intelligence-Enabled Electrocardiogram Improves the Diagnosis and Prediction of Mortality in Patients With Pulmonary Hypertension. <i>JACC: Asia</i>. 2022 Jun, 2 (3_Part_1) 258–270. 9. Chou PC, Liu CM, Weng CH, Yang KC, Cheng ML, Lin YC, Yang RB, Shyu BC, Shyue SK, Liu JD, Chen SP, Hsiao M and Hu YF. Fibroblasts Drive Metabolic Reprogramming in Pacemaker Cardiomyocytes. <i>Circ Res</i>. 2022;131:6-20. doi: 10.1161/circresaha.121.320301. First author-equal contribution. 10. Liu CM, Hsieh ME, Hu YF, Wei TY, Wu IC, Chen PF, Lin YJ, Higa S, Yagi N, Chen SA and Tseng VS. Artificial Intelligence-Enabled Model for Early Detection of Left Ventricular Hypertrophy and Mortality Prediction in Young to Middle-Aged Adults. <i>Circ Cardiovasc Qual Outcomes</i>. 2022; 15:e008360. doi: 10.1161/circoutcomes.121.008360. 11. Liu CM, Lin FJ, Chen YC, Lin YK, Lu YY, Chan CS, Higa S, Chen SA, Chen YJ. Modulation of post-pacing action potential duration and contractile responses on ventricular arrhythmogenesis in chloroquine-induced long QT syndrome. <i>Eur J Pharmacol</i>. 2023; 941:175493. doi: 10.1016/j.ejphar.2023.175493. 12. Liu CM, YC Chen, YF Hu. Harnessing cell reprogramming for cardiac biological pacing. <i>J Biomed Sci</i>. 2023 Aug 26; 30(1):74.
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