Name: BING-RU, PENG
Telephone: 04-22391647 ext 7121
Mail: 108653@ctust.edu.tw
Education：   Doctor of Philosophy, Central Taiwan University of Science and Technology, Taichung, Taiwan
Career Experience：   Radiographer, Taichung Armed Forces General Hospital
Courses Taught：   1. Principles of Medical Imaging   2. Medical Imaging Processing and Archiving System   **3.** Dental Radiography
Professional Fields：   1. Radiological Education   2. Medical imaging analysis   3. Taguchi Method
Research Interests：   1. Radiation safety   2. Medical imaging analysis

Publications：

Journals

[1] Lung-Fa Pan, Yi-Hua Che, Chun-chieh Wang, **Bing-Ru Peng,** Samrit kittipayak, Ling-Kwang Pan*, 2022, Optimizing cardiac CT angiography minimum detectable difference via Taguchi's dynamic algorithm, a V-shaped line gauge, and three PMMA phantoms, Technology and Health Care, pp1-13.**(SCI, IF:1.35)**

[2] Chao-Yu Chiang, Yi-Hua Chen, Lung-Fa Pan, Chien-Chou Cho,**Bing-Ru Peng*,** Lung-Kwang Pan*, 2021, minimum detectable difference if CT angiography scan at various cardiac beats: evaluation via a customized oblique V-shaped line gauge and PMMA phantom, Journal of Mechanics in Medicine and Biology, 21(10):2140066.**(SCI, IF:1.00)**

[3] Tsung-Min Lee, Chien-Chung Lin **Bing-Ru Peng,** Lung-Fa Pan Lung-Kwang Pan*, 2020, Integration of taguchi analysis with phantom and innovative gauges: optimization of the CT scan protocol for peripheral arterial occlusive disease (PAOD) syndrome, Journal of Mechanics in Medicine and Biology, 20(1):2040005.**(SCI, IF:1.00)**

[4] **Bing-Ru Peng,** Samrit Kittipayak, Lung-Fa Pan, Lung-Kwang Pan, 2019, Optimizing the minimum detectable difference of computed tomography scanned images via the taguchi analysis: a feasibility study with an indigenous hepatic phantom and a line group gauge, Journal of Mechanics in Medicine and Biology, 19(8):1940048.**(SCI, IF:1.00)**

[5] Bor-Ren Huang, **Bing-Ru Peng,** Lung-Kwang Pan*, Ching-Yuan Chen*, 2019, Potential Usefulness of Single Photon Emission Computed Tomography/Computed Tomography in Management of Patients with Failed Back Surgery Syndrome, Journal of Medical Imaging and Health Informatics, 9(7), pp1386-1397. **(SCI, IF:0.82)**

[6] Chih-Heng Chen, **Bing-Ru Peng,** Lung-Fa Pan , Lung-Kwang Pan*,2020, Optimizing the Cardiac X-ray Imaging of Coronary Stent using Taguchi L18 Analysis and a Customized PMMA Phantom, Taiwanese Journal of Applied Radiation and Isotopes,16(2), pp1867-1873.

Conferences

[1] <u>彭炳儒</u>, 吳沅融, 趙真*,2021, 運用田口分析法評估常規成人腹部攝影的最佳灰階梯度型態, 中華民國放射學會第54次年會暨國際醫學影像學術研討會,**Poster. (壁報組第二名)**

[2] <u>彭炳儒</u>，潘龍發, 潘榕光*, 2020, 運用田口分析方法及壓克力線群塊規評估電腦斷層影像之最小可偵測差異, 中華民國放射學會第53次年會暨國際醫學影像學術研討會,**Poster. (壁報組第三名)**

[3] <u>彭炳儒</u>, 潘龍發, 潘榕光*, 2019, 運用田口分析方法評估電腦斷層肝臟動脈相的空間解析度最佳化, 中華民國放射學會2019年秋季學術大會, **Podium.**

[4] **<u>Bing-Ru Peng</u>**, Lung-Fa Pan, Lung-Kwang Pan*,2019, Optimizing the image quality of CT angiography using Taguchi and indigenous line-pair gauge, The 54th KRTA Annual Meeting and 26th East Asia Conference of Radiological Technologists, **Podium.**

[5] **<u>Bing-Ru Peng</u>,** Samrit Kittipayak, Lung-Fa Pan, Lung-Kwang Pan, 2019, Optimizing the minimum detectable difference of computed tomography scanned images via the taguchi analysis: a feasibility study with an indigenous hepatic phantom and a line group gauge, The 8th International Conference on Biomedical Engineering and Biotechnology, **<u>Podium. (Best Paper Award)</u>**

[6] 徐偉程, <u>彭炳儒</u>, 廖俊維、陸教義, 鄭凱元*, 2016, 運用擬人假體量測電腦斷層對醫療輻射協助人員造成之輻射劑量, 中華民國放射學會第49次年會暨國際醫學影像學術研討會, **Poster**.