

<b>姓名</b>			
吳國銓			
<b>專長及研究領域</b>			
智慧計算、機器學習、資料科學、生物醫學資訊學、生物資訊			
<b>學歷(大學以上學歷)</b>			
學歷	學校	國別	主修學門
博士	國立高雄科技大學	中華民國	電子工程系(資工組)
碩士	國立高雄應用科技大學	中華民國	資訊工程系
學士	國立高雄應用科技大學	中華民國	電子工程系
<b>經歷</b>			
名稱		起迄日期	擔任工作
南臺科技大學	資訊管理系	2021/02 ~ 迄今	助理教授
日月光半導體	資訊處	2020/02 ~ 2021/01	主任工程師
敦捷光電	指紋算法部	2018/11 ~ 2020/01	課長
酷奇思數位園	研發部	2012/03 ~ 2016/04	軟體工程師
<b>榮譽與證照</b>			
<b>著作 (IF 與排名以發表前一年度計算)</b>			
<ol style="list-style-type: none"> <li>1. Cheng-Hong Yang, <u>Kuo-Chuan Wu</u>, Li-Yeh Chuang, and Hsueh-Wei Chang, "DeepBarcoding: Deep Learning for Species Classification using DNA Barcoding", <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i>, 2021.01.26 <i>Accepted</i>. (SCI, IF: 3.015, 11/124, 91.532 Q1)</li> <li>2. Jin-Bor Chen, <u>Kuo-Chuan Wu</u>, Sin-Hua Moi, Li-Yeh Chuang, and Cheng-Hong Yang, "Deep learning for intradialytic hypotension prediction in hemodialysis patients," <i>IEEE Access</i>, vol. 8, pp. 82382-82390, 2020. (SCI, IF: 3.745, 35/156, 77.885 Q1)</li> <li>3. Ping-Ho Chen, Li-Yeh Chuang, <u>Kuo-Chuan Wu</u>, Yan-Hsiung Wang, Tien-Yu Shieh, Jim Jinn-Chyuan Sheu, Hsueh-Wei Chang, and Cheng-Hong Yang, "Application of simulation-based CYP26 SNP-environment barcodes for evaluating the occurrence of oral malignant disorders by odds ratio-based binary particle swarm optimization: A case-control study in the Taiwanese population," <i>PLoS One</i>, vol. 14, p. e0220719, 2019. (SCI, IF: 2.776, 24/69, 65.942 Q2)</li> <li>4. Cheng-Hong Yang, <u>Kuo-Chuan Wu</u>, Li-Yeh Chuang, and Hsueh-Wei Chang, "Decision theory-based COI SNP tagging approach for 126 Scombriformes species tagging," <i>Frontiers in Genetics</i>, vol. 10, p. 259, 2019. (SCI, IF: 3.417, 56/174, 68.103 Q2)</li> <li>5. Cheng-Hong Yang, <u>Kuo-Chuan Wu</u>, Yu-Shiun Lin, Li-Yeh Chuang, and Hsueh-Wei Chang, "Protein folding prediction in the HP model using ions motion optimization with a greedy algorithm", <i>BioData Mining</i>, vol. 11, p. 17, 2018. (SCI, IF:1.857, 24/59, 60.169 Q2)</li> <li>6. Cheng-Hong Yang, Yu-Shiun Lin, Sin-Hua Moi, <u>Kuo-Chuan Wu</u>, Li-Yeh Chuang, and Hsueh-</li> </ol>			

Wei Chang, "Hybrid high exploration particle swarm optimization algorithm improves the prediction of the 2-dimensional hydrophobic-polar model for protein folding," *Current Bioinformatics*, vol. 13, pp. 182-192, 2018. (SCI, IF: 0.540, 76/79, 4.430 Q4)

7. Cheng-Hong Yang, **Kuo-Chuan Wu**, Li-Yeh Chuang, and Hsueh-Wei Chang, "Decision tree algorithm-generated single-nucleotide polymorphism barcodes of *rbcl* genes for 38 Brassicaceae species tagging," *Evolutionary Bioinformatics*, vol. 14, Art. no. 1176934318760856, 2018. (SCI, IF: 1.877, 23/59, 61.864 Q2)

8. Cheng-Hong Yang, **Kuo-Chuan Wu**, Hans-Uwe Dahms, Li-Yeh Chuang, and Hsueh-Wei Chang, "Single nucleotide polymorphism barcoding of cytochrome c oxidase I sequences for discriminating 17 species of Columbidae by decision tree algorithm," *Ecology and Evolution*, vol. 7, pp. 4717-4725, 2017. (SCI, IF: 2.440, 57/153, 63.072 Q2)

### 計畫執行

### 指導學生情形(碩士生及大學專題生)

### 主辦及參與會議

會議名程	日期	角色	地點
The 18th IEEE International Conference on Bioinformatics and BioEngineering	2018.10.29~2018.10.31	主講人	台中
第十七屆離島資訊技術與應用研討會	2018.05.25~2018.05.27	主講人	澎湖
5 <sup>th</sup> International Conference on Bioinformatics and Biomedical Science	2016.06.25~2016.06.27	主講人	峇里島
The 6th International Conference on Engineering and Applied Sciences	2016.12.14~2016.12.16	主講人	香港
第 3 期區域教學資源整合分享計畫	2015.04.09、2015.06.25	講師	嘉義