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**現職** 生物與醫學資訊學系 助理教授

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**專長1** 影像處理

**專長3** 機器學習、資料探勘與聚類分析

**專長5** 訊號處理

**專長2** 圖形識別

**專長4** 生態學

## 教師研究成果資料明細



### 研討會論文

**1. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2012.06.16~2012.06.17

A Study of EEG signals of Human Visual Responses for Alcoholics using Karhunen-Loeve Transformation

National Symposium on System Science and Engineering

**2. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2011.04.22~2011.04.23

An image Correction Method based on Line Correspondence for Perspective Distortion in Barcode Decoding: An Implementation of Industrial

PDF417(ISO/IEC15438) 2D Barcode Decoder

International Conference on Advanced Information Technologies

**3. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2012.04.27~2012.04.28

A Measurement System for Human Face Orientation Estimation Based on Coefficients of Karhunen-Loeve Transformation

2012 International Conference on Advanced Information Technologies and The Second National Conference on Web Intelligence and Applications

**4. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2011.04.22~2011.04.23

Fetal ECG Extraction and Analysis from the Composite Maternal ECG using an Adaptive Noise Canceller

International Conference on Advanced Information Technologies

**5. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2011.04.22~2011.04.23

A Fast Calibrationless Method for Non-Linear Distortion (Radial Distortion) Correction in Barcode Decoding: An Implementation of Industrial

Aztec(ISO/IEC24778) 2D Barcode Decoder

International Conference on Advanced Information Technologies, ICAIT 2012

**6. 李正宇(Cheng-Yu Lee)、李正宇(Cheng-Yu Lee)**

2011.04.22~2011.04.23

A Simple Method for Automatic Compensation of Non-uniform Illumination in Barcode Decoding: An Implementation of Industrial UPC-A (ISO/IEC 15420)

Barcode Decoder

International Conference on Advanced Information Technologies, ICAIT 2011

7. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2010.07.4 ~2010.07.4  
Dynamic Image Measurements of Curves using Stereo 3D Vision Positioning: an  
Application to Real-Time Human Body Length Measurement  
Conference on Information Technology and Industrial Application (ITIA 2010)

8. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2010.04.23~2010.04.24  
A New Approach for 3D Trajectory Reconstruction of High-Speed Moving Objects  
using Single Camera  
International Conference on Advanced Information Technologies, ICAIT 2010

9. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2010.04.23~2010.04.24  
Design and Implementation of A Real-Time 3D Trajectory Reconstruction System  
for High-Speed Moving Objects  
International Conference on Advanced Information Technologies, ICAIT 2010

10. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2009.04.24~2009.04.24  
A New Approach for Image Registration based on Ring Sampling using Edge  
Vectors as features  
International Conference on Advanced Information Technologies, ICAIT 2009

11. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2009.06.26~2009.06.26  
A New Approach for Human Face Recognition based on Hausdorff Distances and  
Entropy  
2009 National Symposium on System Science and Engineering

12. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2009.06.26~2009.06.26  
An Approach for Dynamic Image Measurement of the Circumference of Globe-like  
Objects: An Application to Head Circumference Estimation  
2009 National Symposium on System Science and Engineering

13. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2009.06.26~2009.06.26  
An Approach for Dynamic Image Measurements of Curves: An Application to  
Human Body Length Measurements  
2009 National Symposium on System Science and Engineering

14. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2008.05.30~2008.05.30  
A comparison for the appropriateness of spatial analyses and spatio-temporal  
analyses: An example of the West-Nile virus epidemic in Detroit, 2002  
Conference of Applied Statistics

15. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee)  
2008.04.26~2008.04.26  
An Improved Randomized Circular-like Object Detection Algorithm for Biomedical  
Applications  
Conference of Advanced Information Technology (AIT 2008)

16. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2007.12. ~2007.12.  
Spatio-Temporal Analyses for the Control and Prevention of Emerging Infectious

Diseases: An Example for the West-Nile Virus Outbreak in Detroit, Michigan, USA, 2002

TEPHINET 2007

17. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2007.12. ~2007.12.  
IEAST: An Integrated Computer Environment for Modelling and Analysis of Spatio-Temporal Biological Processes  
National Computer Symposium 2007

18. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2007.12. ~2007.12.  
Some Improvements on the Procedure of Modelling and Analysis for Space-Time ARMA Models  
National Computer Symposium 2007

19. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2004.05. ~2004.05.  
Space-time statistical modeling and analysis using STARMA models: An application to West Nile virus  
IUFRO §4.11 Statistical Methods, Mathematics and Computers. Conference on Applications of Statistics, Information Systems and Computers in Natural Resources Monitoring and Management

20. 李正宇(Cheng-Yu Lee) 、李正宇(Cheng-Yu Lee) 2010.07.4  
~2010.07.4  
Face Recognition Based on Gini Features and Karhunen–Loeve Transform  
Conference on Information Technology and Industrial Application (ITIA 2010)