

The Eighth Science & Technology Poster Presentation

第八届理工科技学部海报展

APPLIED PSYCHOLOGY

- APSY 1 **The Effect of Cognitive Style on Transfer of Learning in Virtual Environment**
X. R. Chen Supervisor: Dr. G. W. Ho
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- APSY 2 **The Effect of Arousal on the Scope of Attention**
X. Y. Huang Supervisor: Dr. R. R. Chen
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- APSY 3 **Emotion-Induced Failures: Attentional Blindness under Social Evaluative Threat in Socially Anxious Individuals**
J. Y. Jiang Supervisor: Dr. R. R. Chen
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- APSY 4 **Effects of Facilitating and Inhibiting Smile on Emotion and Judgement**
Y. T. Li Supervisor: Dr. A. Lai
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- APSY 5 **Positive and Negative Peer Relations among Preschool Children: Social Network Analysis**
H. H. Liang Supervisor: Dr. Y. L. Kuo
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- APSY 6 **A Grounded Theory Study of How Chinese Female Victims of Intimate Partner Violence Escape from The Dangerous Relationship**
H. Y. Liu Supervisor: Dr. A. Lai
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- APSY 7 **Factors Analysis with Structural Equation Modeling (SEM) for Parsimonious Price-Mueller Model in China Production Small and Median-size Enterprise Brain Drain**
Z. R. Mao Supervisor: Dr. G. W. Ho
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- APSY 8 **The Effect of Buddhism on Death Attitudes among Chinese elderly: Comparison of the Death Attitude between Buddhist and Non-Religious Chinese Elderly**
W. F. Shi Supervisor: Dr. P. Z. Lee
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- APSY 9 **The Influencing Factors in the Effect of Color Visual Stimulation on Time Perception**
J. Y. Sun Supervisor: Dr. G. W. Ho
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- APSY 10 **The Role of Academic Burnout on the Relationship of Perfectionism and Academic Performance**
Y. F. Xie Supervisor: Dr. Y. L. Kuo
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- APSY 11 **Playing Action Video Games Enhances Spatial Cognition? Evidence from a Training Study with both Mental Rotation and Paper Folding Tasks Tested**
C. S. Yi Supervisor: Dr. R. R. Chen
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- APSY 12 **A Study on the Relationship between Religious Faith and Meaning in Life among the Elderly**
X. Zhou Supervisor: Dr. P. Z. Lee

COMPUTER SCIENCE AND TECHNOLOGY

- CST 1 **Data Cleaning Software Development**
X. G. Gu, A. Q. Zha Supervisor: Dr. R. Meng
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- CST 2 **Customer Service Chat Bot**
W.F. Huang, B. L. He Supervisor: Dr. Raymond S. T. Lee
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CST 3	Essay Generation using Deep Learning Method Y. Z. Lin, R. C. Zhong, Z. Y. Wang Supervisor: Dr. Jefferson Fong
CST 4	Split Ergonomic Keyboard T. X. Liu, J. Ji Supervisor: Dr. Z. Y. Li
CST 5	Research and Development of Map Visualization and Management Information System Based on UIC Alumni Data C. H. Lyu, D. W. Min Supervisor: Dr. S. P. Jeong
CST 6	A Quantum Finance based Chaotic Neural Network Framework for Forex Time-series Forecasting and Hedging Trading System Y. F. Qiu, Y. C. Yuan, Z. Chen Supervisor: Dr. Raymond S. T. Lee
CST 7	Metaphor Identification and Interpretation with Bi-LSTM in NLP Z. M. Tian, Q. Z. Wang, Z. H. Huang Supervisor: Prof. W. F. Su
CST 8	Length Control for Quality Summarization with Length Attention Z. Y. Yu, Z. H. Wu, H. Zheng Supervisor: Prof. W. F. Su
CST 9	An End-to-End Portrait Segmentation Method by Using Fully Convolutional Network Y. Zhang Supervisor: Dr. Jefferson Fong
CST 10	Interactive 3D Virtual Campus Tour System H. Y. Zhou, W. M. Liu, Y. X. Dan Supervisor: Prof. H. Zhang

DATA SCIENCE

DS 1	Data Cleaning Software Development X. G. Gu, A. Q. Zha Supervisor: Dr. R. Meng
DS 2	Chatroom with Sentiment Analysis Z. Y. Guo Z. H. Lin Supervisor: Dr. R. Meng

ENVIRONMENTAL SCIENCE

ENVS 1	Effect of Transient Exposure to Environmentally Realistic Concentration of Cadmium on Zebrafish Development X. T. Cai Supervisor: Dr. B. H. Yuen
ENVS 2	The Properties and Adsorption Ability of Montmorillonite Modified by Hexadecyltrimethyl Ammonium (Postgraduate) J. J. Chen, L. C. Su Supervisor: Prof. H. D. Ruan
ENVS 3	Photo-degradation of Formaldehyde in Air Using Mixture of Nanoscale Titanium Dioxide and Silicon Dioxide J. N. Chen, J. M. Xiao Supervisor: Dr. C. H. Lee
ENVS 4	A Study on the Conditions and Regeneration of Iron Modified Montmorillonite for Lead (II) Adsorption in Industrial Wastewater Y. T. Chuang Supervisor: Prof. H. D. Ruan
ENVS 5	Synthesis of Iron-pillared Montmorillonite and the Study on Its Adsorption Performance Y. Fang Supervisor: Prof. H. D. Ruan
ENVS 6	The Study of Woodland Habitat Fragmentation in Zhuhai using Geographic Information System W. K. Huang Supervisor: Dr. S.T. Tsim

- ENVS 7 **Puffer Fish Gut Microbiota Studies Revealed Unique Bacterial Co-occurrence Patterns and New Evidence of Arginine-derived Mechanism in Tetrodotoxin Biosynthesis (Postgraduate)**
Z. C. Li Supervisor: Dr. C. F. Yu
- ENVS 8 **A Study of the Changes in Toxicity and Gut Microbiota with Age in *Takifugu ocellatus* Collected in Zhuhai**
Z. W. Li Supervisor: Dr. C. F. Yu
- ENVS 9 **A Study of Dairy Waste Treatment by *Chlorella* and Simultaneous Production of Algal Biofuel and Bioethanol**
Q. Y. Lu, Y. F. Mei Supervisor: Dr. C. F. Yu
- ENVS 10 **Microplastics and Heavy Metals in Oysters from the Coast of Guangdong, China**
D. J. Wang Supervisor: Prof. H. D. Ruan
- ENVS 11 **Examination of Interactions between Benthic Invertebrates and Seagrass *Halophila beccarii* and the Changes of Seagrass Growth in Zhuhai**
W. Q. Xiao, L. Z. Liang Supervisor: Dr. S.T. Tsim
- ENVS 12 **Joint Effects of Audible Sounds and Cadmium Stress on Growth of *Escherichia coli***
Q. F. Yin Supervisor: Dr. B. H. Yuen
- ENVS 13 **Formulation and Modification of Hand Cleaners Derived from *Camellia oleifera* Seed Dregs**
J. Y. Zhang Supervisor: Prof. H. D. Ruan
- ENVS 14 **Study of the Adsorption Capacity of Two Antibiotics on Virgin and Aged Microplastics in Freshwater and Seawater**
S. N. Zhang Supervisor: Dr. C. H. Lee

FINANCIAL MATHEMATICS

- FM 1 **Bivariate Option Pricing and Best-of Bond Construction with Empirical Application**
Y. Chen Supervisor: Prof. K. H. Ng
- FM 2 **An empirical study on the co-movement between stock markets--based on the VAR-BEKK-GARCH(1,1) model**
J. Z. Ci Supervisor: Dr. C.F. Wong
- FM 3 **Preliminary study on the process of seed user information dissemination**
Z. Y. Deng, J. Y. Chen Supervisor: Dr. T. H. Zhi
- FM 4 **A Study of SSE 50 ETF Based on Black-Scholes Model**
J. Duan, Z. L. Guo Supervisor: Dr. W. Zhang
- FM 5 **Optimized Tree Pricing model for American lookback option**
S. Gou, W. Ning Supervisor: Dr. C.F. Wong
- FM 6 **Volatility and correlation research between the real estate market and stock market in China**
M. K. Li, Z. K. Lin Supervisor: Dr. Z. F. Zhou
- FM 7 **Curiosity Based Recommendation System**
Z. H. Wang Supervisor: Dr. P. F. Zhao
- FM 8 **Volatility Relationship Between Oil and China's Stock Market**
L. Yue, Y. Y. Zhang Supervisor: Dr. Z. F. Zhou
- FM 9 **Return and Volatility Interrelationships in China's First-tier Cities Housing Markets**
X. R. Zhang, R. Z. Cheng Supervisor: Dr. Z. F. Zhou
- FM 10 **The Warning of Bitcoin Volatility Based on Garch Models**
Z. Y. Tang Supervisor: Dr. T. H. Zhi

FOOD SCIENCE AND TECHNOLOGY

- FST 1 **Screening and Identification of Nitrite-degrading Lactic Acid Bacteria in Chinese Northeast Sauerkraut (Suan-cai)**
X. Han Supervisor: Prof. B. Lei
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- FST 2 **Development of Chinese Almond Curd with Creaminess Texture, Nutty and Carmel Flavour**
D. Y. Li Supervisor: Dr. W. M. He
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- FST 3 **Anti-diabetic Effect of Konjac Glucomannan via Insulin Signaling Pathway Regulation in High-fat Diet/Streptozotocin-induced Diabetic Rats**
X. H. Li Supervisor: Prof. B. J. Xu
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- FST 4 **Nutrition and Microbiota: Rising Stars in the Battle Against Depression**
J. Luo Supervisor: Dr. D. Wu
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- FST 5 **The Application of Tea Polyphenol and Curcumin in Duck Blood Tofu**
X. J. Ruan Supervisor: Dr. D. Wu
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- FST 6 **Physicochemical and Sensory Characteristics of Macaron**
M. Z. Wu Supervisor: Dr. D. Wu
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- FST 7 **Poor Energy and Nutrients Intake in Collegiate Basketball Players in the Pre-competition and Rest periods**
Y. H. Wu Supervisor: Dr. D. Wu
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- FST 8 **Physicochemical Properties of Starch Isolated from Under-utilized Resource**
J. Y. Yang Supervisor: Prof. B. J. Xu
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- FST 9 **Investigation on the Enhancement of Stability of Natural Pigment Beet Root Red by Color Fixatives and Their Application for Food Industry**
C. R. Yuan Supervisor: Prof. B. Lei
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- FST 10 **Anti-oxidation and Anti-inflammatory Effects of Extracts and Protein Hydrolysates from Hechong (*Tylorrhynchus heterochaeta*) grown in China and Vietnam**
W. X. Zhang Supervisor: Prof. B. J. Xu
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- FST 11 **Konjac Glucomannan (KGM) Exerts Anti-diabetic Effects through Regulating Oxidative Stress and Inflammation**
Y. S. Zhao Supervisor: Prof. B. J. Xu
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- FST 12 **Toxic Effect of *Rhizophora mucronata* Bark rather than Antidiabetic on nSTZ-induced Type 2 Diabetic Model Rats (Postgraduate)**
M. Asrafuzzaman Supervisor: Prof. B. J. Xu
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- FST 13 **Effects of Jew's Ear (*Auricularia auricula-judae*) Polysaccharide on Colitis-associated Colon Cancer and Gut Microbiota (Postgraduate)**
T. Islam Supervisor: Prof. B. J. Xu
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- FST 14 **Study on Metabolic Profile Variations in Bone Cell with Cadmium Exposure (Postgraduate)**
J. L. Tian, L. Y. Wang, Z. C. Li Supervisor: Prof. B. Lei and Prof. Z. W. Cai

STATISTICS

- STAT 1 **Quadrics in Finite Projective Space**
Y. W. Cao Supervisor: Dr. Alice Hui and Dr. A. M. Elsayah
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- STAT 2 **Using News to Predict Stock Movements**
L. Y. Chen Supervisor: Dr. Y. H. Deng

STAT 3	Representative points for mixture of normal distributions X. Chen Supervisor: Prof. K. T. Fang and Dr. P. He
STAT 4	Influence Maximization in Online Social Network with Deep Learning Y. X. Chen Supervisor: Dr. Y. H. Deng
STAT 5	Analysis of Electroencephalogram Energy Features in Rats with Epilepsy Symptoms Z. F. Gao Supervisor: Dr. X. L. Peng
STAT 6	Coordinate Descent Algorithm in L_0 Based Variable Selection and its Application in Genomic Studies M. Y. Hu Supervisor: Dr. X. L. Peng
STAT 7	Convolutional Neural Network-based Fault Classification of Power Distribution Network A. D. Huang Supervisor: Dr. P. He
STAT 8	Artificial Neural Network Classification in Heart Rate Variability Q. H. Lin Supervisor: Prof. K. T. Tsang
STAT 9	Public-key cryptosystem Implementation in GPGPU J. J. Liu Supervisor: Prof. K. T. Tsang
STAT 10	Optimum Feature Subspace Selection for Credit Score Model by Elitist Genetic Algorithm Y. X. Xie Supervisor: Dr. H. J. Ye
STAT 11	Properties and Generation of Representative Points of the Exponential Distribution L. H. Xu Supervisor: Prof. K. T. Fang and Dr. P. He
STAT 12	Rumor Detection On Online Social Network Y. W. Yuan Supervisor: Dr. Y. H. Deng