

# XiaoJun Chang

COMPUTER VISION · MACHINE LEARNING · MULTIMEDIA

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“Make the change that you want to see in the world.”

## Education

### Centre for Quantum Computation and Intelligent Systems, University of Technology Sydney

Sydney, Australia

PH.D IN COMPUTER SCIENCE

Jul. 2015 - Aug. 2016

- Supervisor: Dr. Yi Yang [yi.yang@uts.edu.au]

### School of Information Technology and Electrical Engineering, The University of Queensland

Brisbane, Australia

PH.D IN COMPUTER SCIENCE

Oct. 2012 - June. 2015

- Supervisor: Dr. Yi Yang [yi.yang@uts.edu.au]

### College of Information Science and Technology, Northwest University

Xian, China

M.S. IN COMPUTER SCIENCE

Sep. 2008 - Jun. 2011

- Supervisor: Dr. Jun Guo [guojun@nwu.edu.cn]

### Department of Physics, Northwest University

Xian, China

B.S. IN THEORETICAL PHYSICS

Sep. 2004 - Jun. 2008

- Supervisor: Dr. Zhengjun Zhang [zhangzj@nwu.edu.cn]

## Employment History

### Monash University

Melbourne, AU

SENIOR LECTURER (A.K.A. ASSISTANT PROFESSOR) AND DECRA FELLOW

Jul. 2020 - Now

### Monash University

Melbourne, AU

LECTURER (A.K.A. ASSISTANT PROFESSOR) AND DECRA FELLOW

Dec. 2018 - Jun. 2020

### Carnegie Mellon University

Pittsburgh, US

POSTDOCTORAL RESEARCH ASSOCIATE

Aug. 2016 - Nov. 2018

### Carnegie Mellon University

Pittsburgh, US

VISITING STUDENT

Mar. 2014 - Aug. 2016

### Oracle Asia Research & Development Center

Beijing, China

SOFTWARE ENGINEER

Jul. 2011 - Sep. 2012

### IBM China Development Lab

Beijing, China

SOFTWARE ENGINEER INTERN

Sep. 2009 - Jun. 2011

## Grants

### Australian Research Council

AUD 393,000

TOWARDS DATA-EFFICIENT FUTURE ACTION PREDICTION IN THE WILD

2019.01 - 2021.12

- XiaoJun Chang

### Defense Advanced Research Projects Agency (DARPA)

AUD 4,606,216.00

LEARNING TO LEARN AND ADAPT WITH LESS LABELS

2019.01 - 2021.12

- Reza Haffari, Wray Buntine, Dinh Phung, Geoff Webb, XiaoJun Chang

### The MITRE Corporation (Grant No. 113809)

USD 600,000

INTEGRATION AND TRANSITION OF ALADDIN VIDEO SOFTWARE

2016.09 - 2018.01

- Alexander G. Hauptmann, XiaoJun Chang, and Eric Riebling

## National Natural Science Foundation of China (Grant No. 61702415)

CNY 220,000

COGNITIVE MODELLING OF HUMAN ACTIVITY WITH A VIEW-INVARIANT WORLD REPRESENTATION

2018.01 - 2020.12

- Xiaojun Chang

## National Natural Science Foundation of China (Grant No. 61772310)

CNY 630,000

REPRESENTATION LEARNING FOR MICRO VIDEOS

2018.01-2020.12

- Liqiang Nie, Xiaojun Chang, *et al.*

## National Natural Science Foundation of China (Grant No. 61772373)

CNY 610,000

STUDY OF THE KEY PROBLEMS IN SEMI-SUPERVISED LEARNING FOR LARGE SCALE HIGH DIMENSIONAL DATA

2018.01-2020.12

- Minyu Fan, Xiaojun Chang, *et al.*

## Selected Publications

JOURNAL [\* indicates corresponding author]

### Pair-based Uncertainty and Diversity Promoting Early Active Learning for Person Re-identification

2018 IF: 2.861

WENHE LIU, XIAOJUN CHANG, LING CHEN, DINH PHUNG, XIAOQIN ZHANG, YI YANG, ALEXANDER G. HAUPTMANN

- ACM TIST 11(2): 21:1-21:15 (2020)

### Deep Top-k Ranking for Image-Sentence Matching

2018 IF: 5.452

LINGLING ZHANG, MINNAN LUO, JUN LIU, XIAOJUN CHANG, YI YANG, ALEXANDER G. HAUPTMANN

- IEEE Trans. Multimedia 22(3): 775-785 (2020)

### Zero-shot event detection via event-adaptive concept relevance mining

2018 IF: 5.898

ZHIHUI LI, LINA YAO, XIAOJUN CHANG, KUN ZHAN, JIANDE SUN, HUAXIANG ZHANG

- Pattern Recognit. 88: 595-603 (2019)

### Scheduled sampling for one-shot learning via matching network

2018 IF: 5.898

LINGLING ZHANG, JUN LIU, MINNAN LUO, XIAOJUN CHANG, QINGHUA ZHENG, ALEXANDER G. HAUPTMANN

- Pattern Recognit. 96 (2019)

### Ensemble Teaching for Hybrid Label Propagation

2018 IF: 11.47

CHEN GONG, DACHENG TAO, XIAOJUN CHANG, JIAN YANG

- IEEE Trans. Cybernetics 49(2): 388-402 (2019)

### Adaptive Structure Discovery for Multimedia Analysis Using Multiple Features

2018 IF: 11.47

KUN ZHAN, XIAOJUN CHANG, JUNPENG GUAN, LING CHEN, ZHIGANG MA, YI YANG

- IEEE Trans. Cybernetics 49(5): 1826-1834 (2019)

### Discrete Multi-Graph Clustering

2018 IF: 6.79

MINNAN LUO, CAIXIA YAN, QINGHUA ZHENG, XIAOJUN CHANG, LING CHEN, FEIPING NIE

- IEEE Trans. Image Processing 28(9): 4701-4712 (2019)

### Adaptive Semi-Supervised Feature Selection for Cross-Modal Retrieval

2018 IF: 5.452

EN YU, JIANDE SUN, JING LI, XIAOJUN CHANG, XIAN-HUA HAN, ALEXANDER G. HAUPTMANN

- IEEE Trans. Multimedia 21(5): 1276-1288 (2019)

### MMALFM: Explainable Recommendation by Leveraging Reviews and Images

2018 IF: 2.312

ZHIYONG CHENG, XIAOJUN CHANG, LEI ZHU, ROSE CATHERINE KANJIRATHINKAL, MOHAN S. KANKANHALLI

- ACM Trans. Inf. Syst. 37(2): 16:1-16:28 (2019)

### Semantic Pooling for Complex Event Analysis in Untrimmed Videos

2016 IF: 8.329

XIAOJUN CHANG, YAO-LIANG YU, YI YANG AND ERIC P. XING

ESI Highly Cited, Hot

- IEEE Transactions on Pattern Analysis and Machine Intelligence, 39(8): 1617-1632, 2017.
- FoR code: 080101: 50%; 080104: 50%

### Bi-Level Semantic Representation Analysis for Multimedia Event Detection

2016 IF: 7.384

XIAOJUN CHANG, ZHIGANG MA, YI YANG, ZHIQIANG ZENG AND ALEXANDER G. HAUPTMANN

ESI Highly Cited, Hot

- IEEE Transactions on Cybernetics, 47(5): 1180-1197, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Joint Attributes and Event Analysis for Multimedia Event Detection

2016 IF: 6.108

ZHIGANG MA, **XIAOJUN CHANG\***, ZHONGWEN XU, NICU SEBE AND ALEXANDER G. HAUPTMANN

- IEEE Transactions on Neural Networks and Learning Systems, DOI: 10.1109/TNNLS.2017.2709308, 2017.
- FoR code: 080101: 50%; 080104: 50%

## The Many Shades of Negativity

2016 IF: 3.509

ZHIGANG MA, **XIAOJUN CHANG\***, YI YANG, NICU SEBE AND ALEX HAUPTMANN

ESI Highly Cited, Hot

- IEEE Transactions on Multimedia, 19(7): 1558-1568, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Feature Interaction Augmented Sparse Learning for Fast Kinect Motion Detection

2016 IF: 4.828

**XIAOJUN CHANG**, ZHIGANG MA, MING LIN, YI YANG AND ALEXANDER G. HAUPTMANN

ESI Highly Cited, Hot

- IEEE Transactions on Image Processing, 26(8): 3911-3920, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Simple to Complex Cross-modal Learning to Rank

2016 IF: 2.498

MINNAN LUO, **XIAOJUN CHANG\***, ZHIHUI LI, LIQIANG NIE, ALEXANDER G. HAUPTMANN, AND QINGHUA ZHENG

- Computer Vision and Image Understanding, DOI: 10.1016/j.cviu.2017.07.001, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Fast and Orthogonal Locality Preserving Projections for Dimensionality Reduction

2016 IF: 4.828

RONG WANG, FEIPING NIE, RICHANG HONG, **XIAOJUN CHANG**, XIAOJUN YANG AND XUELONG LI

- IEEE Transactions on Image Processing, 26(10): 5019-5030, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis

2016 IF: 3.438

ZHIHUI LI, FEIPING NIE, **XIAOJUN CHANG** AND YI YANG

- IEEE Transactions on Knowledge and Data Engineering, DOI: 10.1109/TKDE.2017.2728531, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Adaptive Unsupervised Feature Selection with Structure Regularization

2016 IF: 6.108

MINNAN LUO, FEIPING NIE, **XIAOJUN CHANG\***, YI YANG, ALEXANDER G. HAUPTMANN AND QINGHUA ZHENG

- IEEE Transactions on Neural Networks and Learning Systems, DOI: 10.1109/TNNLS.2017.2650978, 2017.
- FoR code: 080101: 50%; 080104: 50%

## An Adaptive Semisupervised Feature Analysis for Video Semantic Recognition

2016 IF: 7.384

MINNAN LUO, **XIAOJUN CHANG\***, LIQIANG NIE, YI YANG, ALEXANDER G. HAUPTMANN AND QINGHUA ZHENG

ESI Highly Cited

- IEEE Transactions on Cybernetics, DOI: 10.1109/TCYB.2017.2647904, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Learning Multiple Diagnosis Codes for ICU Patients with Local Disease Correlation Mining

2016 IF: 1.895

SEN WANG, XUE LI, **XIAOJUN CHANG\***, LINA YAO, QUAN Z. SHENG AND GUODONG LONG

- ACM Transactions on Knowledge Discovery from Data 29(4): 1124-1150, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Revealing Event Saliency in Unconstrained Video Collection

2016 IF: 4.828

DINGWEN ZHANG, JUNWEI HAN, LU JIANG, SENMAO YE AND **XIAOJUN CHANG**

ESI Highly Cited, Hot

- IEEE Transactions on Image Processing 26(4): 1746-1758, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Avoiding Optimal Mean L21-norm Maximization based Robust PCA for Reconstruction

2016 IF: 1.938

MINNAN LUO, FEIPING NIE, **XIAOJUN CHANG**, YI YANG, ALEXANDER G. HAUPTMANN, QINGHUA ZHENG

- Neural Computation 29(4): 1124-1150, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Semisupervised Feature Analysis by Mining Correlations among Multiple Tasks

2016 IF: 6.108

**XIAOJUN CHANG** AND YI YANG

- IEEE Transactions on Neural Networks and Learning Systems, DOI: 10.1109/TNNLS.2016.2582746, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Convex Sparse PCA for Unsupervised Feature Analysis

2016 IF: 1.895

**XIAOJUN CHANG**, FEIPING NIE, YI YANG, CHENGQI ZHANG AND HENG HUANG

- ACM Transactions on Knowledge Discovery from Data 11(1): 3:1-3:16, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Diagnosis Code Assignment Using Sparsity-Based Disease Correlation Embedding

2016 IF: 3.438

SEN WANG, **XIAOJUN CHANG**, XUE LI, GUODONG LONG, LINA YAO AND QUAN Z. SHENG

- IEEE Transactions on Knowledge and Data Engineering 28(12): 3191-3202, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Modeling Disease Progression via Multisource Multitask Learners: A Case Study With Alzheimer's Disease

2016 IF: 6.108

LIQIANG NIE, LUMING ZHANG, LEI MENG, XUEMENG SONG, **XIAOJUN CHANG** AND XUELONG LI

- IEEE Transactions on Neural Networks and Learning Systems, DOI: 10.1109/TNNLS.2016.2520964, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Multiview Physician-Specific Attributes Fusion for Health Seeking

2016 IF: 7.384

LIQIANG NIE, LUMING ZHANG, YAN YAN, **XIAOJUN CHANG**, MAOFU LIU, AND LING SHAO

- IEEE Transactions on Cybernetics, DOI: 10.1109/TCYB.2016.2577590, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Compound Rank-k Projections for Bilinear Analysis

2016 IF: 6.108

**XIAOJUN CHANG**, FEIPING NIE, SEN WANG, YI YANG, XIAOFANG ZHOU, CHENGQI ZHANG

ESI Highly Cited, Hot

- IEEE Transactions on Neural Networks and Learning Systems 27(7): 1502-1513, 2016.
- FoR code: 080101: 50%; 080104: 50%

## Multi-Class Active Learning by Uncertainty Sampling with Diversity Maximization

2016 IF: 8.222

YI YANG, ZHIGANG MA, FEIPING NIE, **XIAOJUN CHANG**, AND ALEXANDER G. HAUPTMANN

ESI Highly Cited

- International Journal of Computer Vision 113(2): 113-127, 2015.
- FoR code: 080101: 50%; 080104: 50%

## CONFERENCE

### Unsupervised Multimodal Neural Machine Translation with Pseudo Visual Pivoting

CORE Rank A\*, CCF A

PO-YAO HUANG, JUNJIE HU, **XIAOJUN CHANG** AND ALEXANDER HAUPTMANN

- ACL 2020

### Vision-language Navigation with Self-Supervised Auxiliary Reasoning Tasks

CORE Rank A\*, CCF A

FENGDA ZHU, YI ZHU, **XIAOJUN CHANG**, XIAODAN LIANG

- CVPR 2020

### ZSTAD: Zero-Shot Temporal Activity Detection

CORE Rank A\*, CCF A

LINGLING ZHANG, **XIAOJUN CHANG**, JUN LIU, SEN WANG, ZONGYUAN GE, MINNAN LUO, ALEXANDER HAUPTMANN

- CVPR 2020

### Unity Style Transfer for Person Re-Identification

CORE Rank A\*, CCF A

CHONG LIU, **XIAOJUN CHANG**, YI-DONG SHEN

- CVPR 2020

### Neural Architecture Search by Block-wisely Distilling Architecture Knowledge

CORE Rank A\*, CCF A

CHANGLIN LI, JIEFENG PENG, LIUCHUN YUAN, GUANGRUN WANG, XIAODAN LIANG, LIANG LIN, **XIAOJUN CHANG**

- CVPR 2020

### Vision Dialogue Navigation by Exploring Cross-modal Memory

CORE Rank A\*, CCF A

YI ZHU, FENGDA ZHU, ZHAO HUAN ZHAN, BINGQIAN LIN, JIANBIN JIAO, **XIAOJUN CHANG**, XIAODAN LIANG

- CVPR 2020

### Overcoming Multi-Model Forgetting in One-Shot NAS with Diversity Maximization

CORE Rank A\*, CCF A

MIAO ZHANG, HUIQI LI, SHIRUI PAN, **XIAOJUN CHANG**, STEVEN SU

- CVPR 2020

### Multi-Head Attention with Diversity for Learning Grounded Multilingual Multimodal Representations

CORE Rank A, CCF A

PO-YAO HUANG, **XIAOJUN CHANG**, ALEXANDER G. HAUPTMANN

- EMNLP 2019

### Annotation Efficient Cross-Modal Retrieval with Adversarial Attentive Alignment

CORE Rank A\*, CCF A

PO-YAO HUANG, GUOLIANG KANG, WENHE LIU, **XIAOJUN CHANG**, ALEXANDER G. HAUPTMANN

- ACM MM 2019

## RCAA: Relational Context-Aware Agents for Person Search

CORE Rank A, CCF B

XIAOJUN CHANG, PO-YAO HUANG, YI-DONG SHEN, XIAODAN LIANG, YI YANG AND ALEX HAUPTMANN

- European Conference on Computer Vision, ECCV 2018.
- FoR code: 080101: 50%; 080104: 50%

## Reinforcement Cutting-Agent Learning for Video Object Segmentation

CORE Rank A\*, CCF A

JUNWEI HAN, LE YANG, DINGWEN ZHANG, XIAOJUN CHANG, AND XIAODAN LIANG, CVPR 2018.

- IEEE International Conference on Computer Vision and Pattern Recognition, CVPR 2018.
- FoR code: 080101: 50%; 080104: 50%

## Robust Top-k Multi-class SVM for Visual Category Recognition

CORE Rank A\*, CCF A

XIAOJUN CHANG, YAO-LIANG YU AND YI YANG

- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD 2017.
- FoR code: 080101: 50%; 080104: 50%

## Complex Event Detection by Identifying Reliable Shots from Untrimmed Videos

ERA Rank A\*, CCF A

HEHE FAN, XIAOJUN CHANG, DE CHENG, YI YANG, DONG XU, AND ALEXANDER G. HAUPTMANN

- IEEE International Conference on Computer Vision, ICCV 2017.
- FoR code: 080101: 50%; 080104: 50%

## Exploring Consistent Preferences: Discrete Hashing with Pair-Exemplar for Scalable Landmark Search

ERA Rank A\*, CCF A

LEI ZHU, ZI HUANG, XIAOJUN CHANG, JINGKUAN SONG, AND HENG TAO SHEN

- ACM International Conference on Multimedia, ACM MM, 2017.
- FoR code: 080101: 50%; 080104: 50%

## Top-k Supervise Feature Selection via ADMM for Integer Programming

ERA Rank A\*, CCF A

MINYU FAN, XIAOJUN CHANG, XIAOQIN ZHANG, DI WANG AND LIANG DU

- International Joint Conference on Artificial Intelligence, IJCAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Discriminative Dictionary Learning With Ranking Metric Embedded for Person Re-Identification

ERA Rank A\*, CCF A

DE CHENG, XIAOJUN CHANG, LI LIU, ALEXANDER G. HAUPTMANN, YIHONG GONG AND NANNING ZHENG

- International Joint Conference on Artificial Intelligence, IJCAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## How Unlabeled Web Videos Help Complex Event Detection?

ERA Rank A\*, CCF A

HUAN LIU, QINGHUA ZHENG, MINNAN LUO, DINGWEN ZHANG, XIAOJUN CHANG AND CHENG DENG

- International Joint Conference on Artificial Intelligence, IJCAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Self-paced Mixture of Regression

ERA Rank A\*, CCF A

LONGFEI HAN, DINGWEN ZHANG, DONG HUANG, XIAOJUN CHANG, SENLIN LUO, JUN REN AND JUNWEI HAN

- International Joint Conference on Artificial Intelligence, IJCAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Adaptive Semi-Supervised Learning with Discriminative Least Squares Regression

ERA Rank A\*, CCF A

MINNAN LUO, LINGLING ZHANG, FEIPING NIE, XIAOJUN CHANG, BUYUE QIAN AND QINGHUA ZHENG

- International Joint Conference on Artificial Intelligence, IJCAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Structure Regularized Unsupervised Discriminant Feature Analysis

ERA Rank A\*, CCF A

MINGYU FAN, XIAOJUN CHANG AND DACHENG TAO

- Thirty-first Conference on Artificial Intelligence, AAAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Probabilistic Non-negative Matrix Factorization and its Robust Extensions for Topic Modeling

ERA Rank A\*, CCF A

MINNAN LUO, FEIPING NIE, XIAOJUN CHANG, YI YANG, ALEXANDER G. HAUPTMANN, AND QINGHUA ZHENG

- Thirty-first Conference on Artificial Intelligence, AAAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## Multi-view Correlated Feature Learning by Uncovering Shared Component

ERA Rank A\*, CCF A

XIAOWEI XUE, FEIPING NIE, SEN WANG, XIAOJUN CHANG, BELA STANTIC AND MIN YAO

- Thirty-first Conference on Artificial Intelligence, AAAI 2017.
- FoR code: 080101: 50%; 080104: 50%

## **They Are Not Equally Reliable: Semantic Event Search using Differentiated Concept Classifiers** *ERA Rank A, CCF A*

XIAOJUN CHANG, YAO-LIANG YU, YI YANG AND ERIC P. XING

- IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2016.
- FoR code: 080101: 50%; 080104: 50%

## **Dynamic Concept Composition for Zero-Example Event Detection** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, YI YANG, GUODONG LONG, CHENGQI ZHANG AND ALEXANDER G. HAUPTMANN

- Thirtieth Conference on Artificial Intelligence, AAAI 2016.
- FoR code: 080101: 50%; 080104: 50%

## **Avoiding Optimal Mean Robust PCA/2DPCA with Non-greedy L1-norm Maximization** *ERA Rank A\*, CCF A*

MINNAN LUO, FEIPING NIE, **XIAOJUN CHANG**, YI YANG AND ALEXANDER G. HAUPTMANN

- International Joint Conference on Artificial Intelligence, IJCAI 2016.
- FoR code: 080101: 50%; 080104: 50%

## **Searching Persuasively: Joint Event Detection and Evidence Recounting with Limited Supervision** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, YAO-LIANG YU, YI YANG AND ALEXANDER G. HAUPTMANN

- ACM International Conference on Multimedia, ACM MM 2015.
- FoR code: 080101: 50%; 080104: 50%

## **Complex Event Detection using Semantic Saliency and Nearly-Isotonic SVM** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, YI YANG, ERIC P. XING AND YAO-LIANG YU

- International Conference on Machine Learning, ICML 2015.
- FoR code: 080101: 50%; 080104: 50%

## **Semantic Concept Discovery for Large-Scale Zero-Shot Event Detection** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, YI YANG, ALEXANDER G. HAUPTMANN, ERIC P. XING AND YAO-LIANG YU

- International Joint Conference on Artificial Intelligence, IJCAI 2015.
- FoR code: 080101: 50%; 080104: 50%

## **A Convex Formulation for Spectral Shrunk Clustering** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, FEIPING NIE, ZHIGANG MA, YI YANG AND XIAOFANG ZHOU

- Twenty-Ninth Conference on Artificial Intelligence, AAAI 2015.
- FoR code: 080101: 50%; 080104: 50%

## **A Convex Formulation for Semi-Supervised Multi-Label Feature Selection** *ERA Rank A\*, CCF A*

XIAOJUN CHANG, FEIPING NIE, YI YANG AND HENG HUANG

- Twenty-Eighth Conference on Artificial Intelligence, AAAI 2014.
- FoR code: 080101: 50%; 080104: 50%

## **Uncovering Locally Discriminative Structure for Feature Analysis** *ERA Rank A, CCF B*

SEN WANG, FEIPING NIE, **XIAOJUN CHANG**, XUE LI, QUAN Z. SHENG AND LINA YAO

- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, ECML/PKDD 2016.
- FoR code: 080101: 50%; 080104: 50%

## **Unsupervised Feature Analysis with Class Margin Optimization** *ERA Rank A, CCF B*

SEN WANG, FEIPING NIE, **XIAOJUN CHANG**, LINA YAO, XUE LI AND QUAN Z. SHENG

- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, ECML/PKDD 2015.
- FoR code: 080101: 50%; 080104: 50%