

# Curriculum Vitae (revised in April 2018)

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## A. Personal Identification

Name Hyunki Lim  
Position Research Professor (The Research Institute for Humanities Contents, CAU)  
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Address 84 Heukseok-ro, Dongjak-gu, Seoul, 06974, Rep. of Korea  
Interest Dimension reduction, Text categorization, Data mining

## B. Education

2012 – 2018 Ph.D. in Dept. of Computer Science and Engineering, Chung-Ang Univ.  
2010 – 2012 M.S. in Dept. of Computer Science and Engineering, Chung-Ang Univ.  
2005 – 2010 B.S. in Dept. of Computer Science and Engineering, Chung-Ang Univ.

## C. Work Experiences

2018-date Research Professor (The Research Institute for Humanities Contents, CAU)

## D. Academic Activities

2016 Part-time Lecturer: Programming  
2016 Part-time Lecturer: Big Data Mining  
2016 Part-time Lecturer: Computational Thinking and Problem Solving

## E. International Journal Publications

Reverse Engineering for Causal Discovery based on the Monotonic Characteristic in the Causal Structure  
Pattern Recognition Letters, 95(1):91-97, August 2017.  
Song Ko, **Hyunki Lim**, and Dae-Won Kim

Optimization Approach for Feature Selection in Multi-label Classification  
Pattern Recognition Letters, 89(1):25-30, April 2017.  
**Hyunki Lim**, Jaesung Lee, and Dae-Won Kim.

Experimental comparisons with respect to the usage of the promising relations in EDA-based causal discovery  
Annals of Operations Research: 1-15, December 2016.  
Song Ko, **Hyunki Lim**, Hoon Ko, Dae-Won Kim

Accelerating Multi-label Feature Selection based on Low-rank Approximation  
IEICE Transactions on Information and Systems, E99-D(5):1396-1399, May 2016.  
**Hyunki Lim**, Jaesung Lee, and Dae-Won Kim.

Music Genre Classification using Feature Subset Search  
International Journal of Machine Learning and Computing (ICMLC 2016), 6(2):134-138, April, 2016.  
Jihae Yoon, **Hyunki Lim** and Dae-Won Kim.

Low-rank Approximation for Multi-label Feature Selection  
International Journal of Machine Learning and Computing (ICMLC 2016), 6(1):42-46, February, 2016.  
**Hyunki Lim**, Jaesung Lee and Dae-Won Kim.

Investigating Relation of Music Data: Emotion and Audio Signals  
Lecture Notes in Electrical Engineering (CSA-2014) 330:251-256, January 2015.  
Jaesung Lee, Jin-Hyuk Jo, **Hyunki Lim**, Jong-Hoon Chae, Sang-Uk Lee, and Dae-Won Kim.

Approximating Dependency for Efficient Multi-label Feature Selection  
Lecture Notes in Electrical Engineering (CSA-2014) 330:245-250, January 2015.  
**Hyunki Lim**, Jaesung Lee, and Dae-Won Kim.

Multi-label Learning Using Mathematical Programming  
IEICE Transactions on Information and Systems, E98-D(1):197-200, January 2015.

**Hyunki Lim**, Jaesung Lee, and Dae-Won Kim.

Efficient Dynamic Time Warping for 3D Handwriting Recognition using Gyroscope Equipped Smartphones  
Expert Systems with Applications, 41(11):5180-5189, September 2014.

Dae-Won Kim, Jaesung Lee, **Hyunki Lim**, Jeongbong Seo, and Bo-Yeong Kang.

Approximating Mutual Information for Multi-label Feature Selection

Electronics Letters 48(15):929-930, July 2012.

Jaesung Lee, **Hyunki Lim**, and Dae-Won Kim.

## **F. International Conference**

System for Matching the Paintings with Music based on Emotions

9th ACM SIGGRAPH Conference and Exhibition on Computer Graphics and Interactive Techniques in ASIA, December 5-8, 2016

Taemin Lee, **Hyunki Lim**, Dae-Won Kim, Kyunghyun Yoon.

Convex Optimization Approach for Multi-label Feature Selection based on Mutual Information

23rd International Conference on Pattern Recognition, December 4-8, 2016

**Hyunki Lim** and Dae-Won Kim.

Music Emotion Recognition using Chord Progressions

IEEE International Conference on Systems, Man, and Cybernetics, October 9-12, 2016.

Yong-Hun Cho, **Hyunki Lim**, Dae-Won Kim, and In-Kwon Lee.

A New Feature Selection Method for Multi-label Data

The 12th International Symposium on Advanced Intelligent Systems (ISIS), 2011.

**Hyunki Lim** and Dae-Won Kim.

## **G. Projects**

2017 – 2023 Constructing the integrated Humanities with Artificial Intelligence to Enhance the value of Humanities in the Post-human Era, HK+NRF

2017 – 2020 Development of Intelligent Healthcare Platform for Atopic Treatment using Bio-Clinic Convergence Information, NRF

2014 - 2017 Techniques for Multi-perceptual Contents based on Aesthetic Synchronization, KOCCA.

2013 - 2016 Aesthetic Cognition-Emotion Inference for Personalized Music Service, NRF.

2013 - 2016 Next Generation Big Data Research Team, BK21 Plus Project, NRF

2010 - 2013 Korean Situation-Context-Emotion based Music Recommendation System, NRF.

2009 - 2011 Stroke Prognosis Prediction Techniques using Temporal Clinical Data, NRF.

## **H. Honors and Awards**

2012 CAU Research Assistant (A)

## **I. Ongoing Papers**

Evolutionary algorithm-based feature selection, submitted in April 2018.

Multi-label Learning for Text Categorization, submitted in October 2017.

Affective Synchronization, submitted in September 2017.