

# 데이터마이닝 연구실

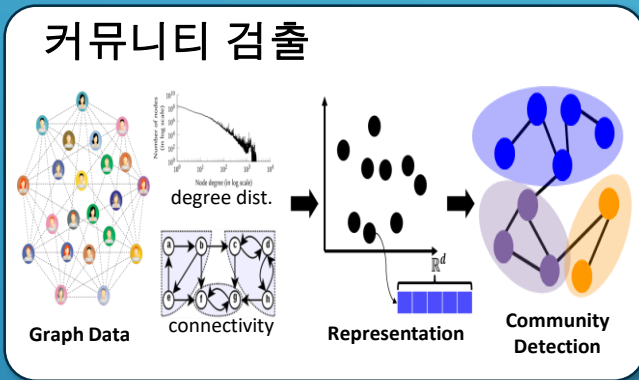
Data Mining Lab. @ Chungbuk National University

Homepage: <https://sites.google.com/view/dmcbnu>

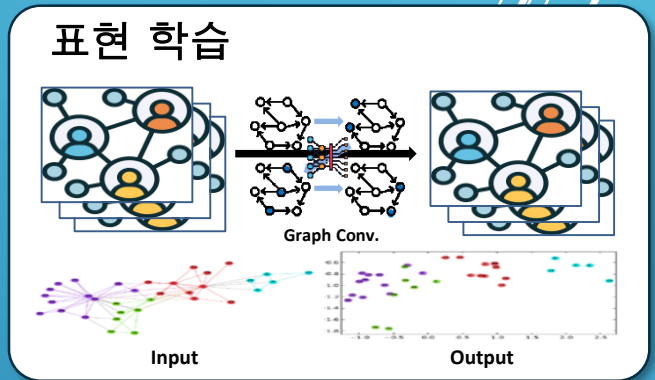
Data Mining Lab aims to discover knowledge from various types of graph by leveraging data mining, machine learning and deep learning techniques for solving real-world problems.

## ◆ 연구 분야

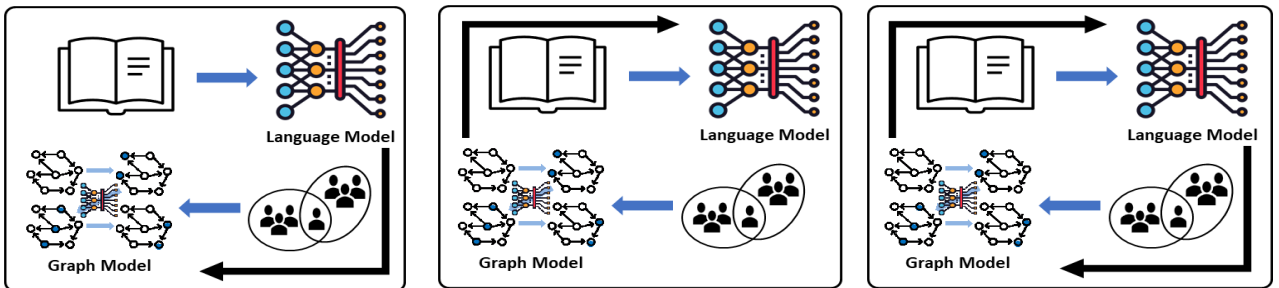
### 커뮤니티 검출



### 표현 학습



### 언어모델 융합 지식 추출



## 강윤석 교수 (Prof. Yoon Suk Kang)

### Research Experiences

- 2024 - Present Assistant Professor, Chungbuk National University
- 2022 - 2024 Postdoctoral Researcher, University of Michigan
- 2019 - 2020 Visiting Scholar, Pennsylvania State University

### Education

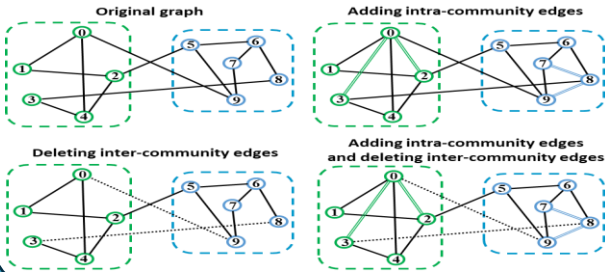
- 2013 - 2022 Ph.D., Department of CS, Hanyang University
- 2007 - 2013 B.S., Department of CSE, Hanyang University



# 주요 연구 내용

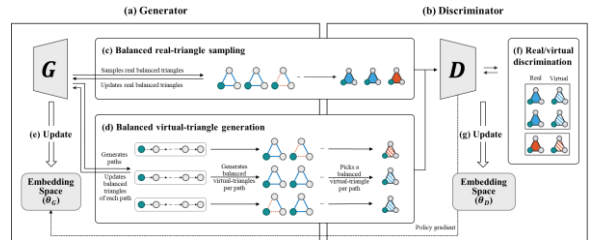
## 커뮤니티 검출 1: CR-Graph

[단순 그래프] 커뮤니티 탐지 정확도 향상을 위한 커뮤니티 강화 (community reinforcement) 기술



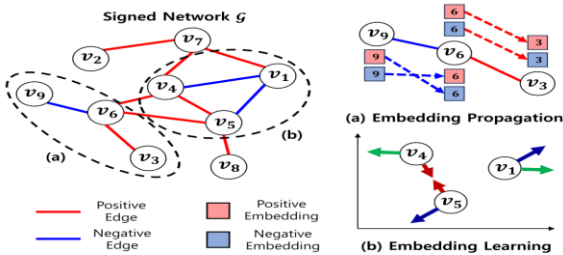
## 커뮤니티 검출 2: ABC

[부호 그래프] 노이즈 학습 문제 해결을 위한 적대적 학습 (GAN) 기반 커뮤니티 탐지 기술



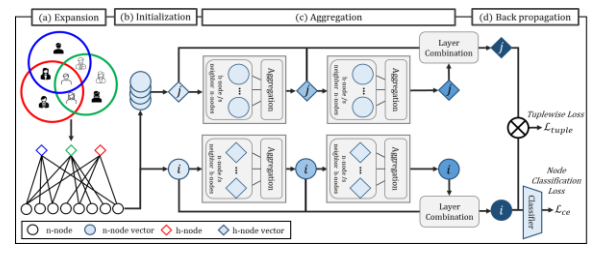
## 표현 학습 1: TrustSGCN

[부호 그래프] 균형이론을 통한 부호 검증 및 그래프 신경망 (GNN) 기반 표현 학습 기술



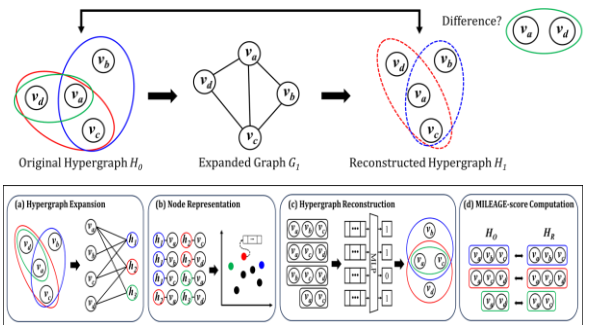
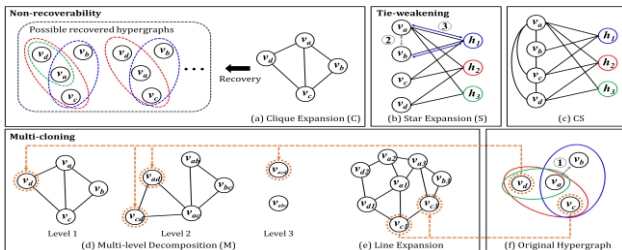
## 표현 학습 2: STARGCN

[하이퍼그래프] 과잉 응집 및 집적 부족 문제 해결을 위한 그래프 신경망 기반 표현 학습 기술



## 하이퍼그래프 정보 손실량 측정: Mileage

[하이퍼그래프] 하이퍼그래프 확장 방법의 정보 손실량 측정을 위한 인코더-디코더 기반 프레임워크



# 데이터마이닝 연구실

Data Mining Lab. @ Chungbuk National University

Homepage: <https://sites.google.com/view/dmcbnu>

교수연구실 : S4-1 314호