

# Invited Seminar

Information and Communication Engineering

Date & Time: 14:00~16:00, December 27, 2018 (THU) / Venue: 424room, E3, DGIST

## Visual Analytics for Comments Analysis and its Potential Applications in Medicine and Biology.

**Prof. Deok Gun Park**  
**, University of Texas at Arlington**

### Abstract

A comment section, such as for an online news article, video, or social media post, is commonly a place to share personal opinions. However, when there are too many comments, it is challenging to gain new insights and estimate the distribution of public opinions simply by reading them. Selecting and promoting high-quality comments can mitigate those problems, but the required resources for choosing them manually are too high for common practice. In this talk, I will introduce my research on visual analytics for comment analysis. The ability to see an overview of the comments and to create custom rankings supports moderators, editors, and commenters themselves. I also propose a method to aid semantic analysis where users can build custom dictionaries for unique concepts and use them to analyze comments. Also, I will discuss its potential applications in medicine and biology. In the future, assessing public opinions will play an important role in protecting the digital democracy against organized attempts to manipulate public opinions.

### Biography

**University of Texas at Arlington** *Arlington, TX*, ASSISTANT PROFESSOR *Sep 2018 - Present*

- Department of Computer Science and Engineering

**University of Maryland** *College Park, MD*, RESEARCH AND TEACHING ASSISTANT *Jul 2014 - Present*

- Member of the Human-Computer Interaction Lab

**Microsoft Research** *Redmond, WA*, RESEARCH INTERN *Summer 2015*

- Visualization and Interaction for Business and Entertainment (VIBE) Group advised by Steven Drucker
- Developed a declarative grammar for Unit Visualizations

**IBM T.J. Watson Research Center** *Cambridge, MA*, RESEARCH INTERN *Summer 2014*

- Watson Cognitive Visualization Group advised by Cody Dunne
- Developed collaborative data exploration system and filed two patents

**Purdue University** *West Lafayette, IN*, RESEARCH ASSISTANT *Jan 2013 - May 2014*

- Member of the PivotLab advised by Niklas Elmqvist

**TechnoSK** *Seoul, South Korea*, ENGINEER *Apr 2010 - Jun 2012*

- Automated the design process for top-down modeling approach
- Resulted in the reduced lead time and man hours for the thermal design for power plant

**NanoBrick** *Suwon, South Korea*, CO-FOUNDER, RESEARCHER *Nov 2007 - Mar 2010*

- Lead new product development using the new color changing nano-material
- Awarded two national research grant of \$1.1M