



**The Hong Kong University of Science and Technology**

**Department of Mathematics**

**Seminar on Financial Mathematics**

**Applying AI and NLP to Analyst  
Reports in Asian Languages**

*by*

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Abstract:

We find that text in analyst reports written in local languages carry additional information on top of estimates and recommendations included in the reports. Our analysis applying Natural Language Processing methods shows that using 'basic' set of words to measure nuances in analyst reports works well, however only more 'sophisticated' set of words and phrases deliver robust performance. Also we find that Extreme Gradient Boosting works best among machine learning methods if we would like to use one.

Chang Hwan Sung

Chang Hwan joined Samsung Asset Management (HK) as Head of Quantitative Investment in June 2014, and currently is responsible for portfolio management, research oversight, and business development for quantitative investments, running Asia ex-Japan quant equity long/short strategies since October 2014. Prior to joining Samsung he spent 8 years at BlackRock/BGI as a portfolio manager in Scientific Active Equities group with a focus on Asian markets, based in Hong Kong (2010-2014) and San Francisco (2006-2010). He received a PhD in Management Science and Engineering and MS in Financial Mathematics from Stanford University and BS Summa cum laude from Seoul National University. He is also a CFA charterholder.

Keunho Kim

Keunho focuses on quantitative research combined with fundamental and macro analysis. Formerly he was a fundamental equity analyst and macro-driven asset allocation analyst based in Samsung Asset Management's Seoul office. Keunho received his MBA from University of Texas at Austin and BS in Mechanical Engineering from Korea University.

***Date: Saturday, 17 March 2018***

***Time: 6:00 pm – 7:15 pm***

***Venue: LT E, Academic Building, HKUST***

***All are welcome!***