Meeyoung Cha

CONTACT	**Pioneer Research Center for Mathematical and Computational Sciences**

Pioneer Research Center for Mathematical and Computational Sciences
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INTERESTS

Data science and information science with an emphasis on modeling socially-relevant information propagation processes (*e.g.,* misinformation, influence, poverty mapping, fraud detection, hate speech, and long-tail content)

POSITIONS

Institute for Basic Science (IBS), Daejeon, Korea
   Chief Investigator, as joint affiliation with KAIST   2019.01 - present
Facebook, Menlo Park, USA
   Visiting Professor, on sabbatical from KAIST   2015.08 – 2016.08
Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea
   Associate Professor, School of Computing   2017.08 – present
   Adjunct Professor, Web Science Division   2010.05 – 2017.07
   Associate Professor, Graduate School of Culture Technology   2014.03 – 2017.07
   Assistant Professor, Graduate School of Culture Technology   2010.05 – 2014.02
Max Planck Institute for Software Systems (MPI-SWS), Saarbruecken, Germany
   Visiting Professor   2013.07 – 2013.08
   Postdoctoral Researcher   2008.01 – 2010.05

HONORS

Program Chair
   Int'l World Wide Web Conference (WWW) Web and Society Track 2021
   Int'l World Wide Web Conference (WWW) BIG Event 2020
   Int'l Conference on Web and Social Media (ICWSM) 2015
   Int'l World Wide Web Conference (WWW) Tutorials 2015
   Int'l Conference on Web and Social Media (ICWSM) Tutorials 2014
Keynotes
   Conference for Truth and Trust Online (TTO) 2020
   Network Science Society's winter conference series (NetSci-X) 2020
   World Customs Organization PICARD Conference 2019
   Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019
   Int'l Conf Series on Advances in Social Network Analysis and Mining (ASONAM) 2017
   Int'l Conference on Social Informatics (SocInfo) 2016
Awards
   AAAI ICWSM Test of Time Award, 2020
   Young Information Scientist Award, Korea 2019
   Chief Investigator Grant, IBS, Korea 2019
   Best Paper at Int'l Conference on Web and Social Media (ICWSM) 2012
   Best Paper at ACM Internet Measurement Conference (IMC) 2007

CITATIONS

Google Scholar 14,496 citations (as of August 23, 2020)
https://scholar.google.com/citations?user=iFlnVCoAAAAJhl=enoi=ao
Papers with 1000 or more citations: 4
Papers with 100 or more citations: 23
H-index: 40, i10-index: 59

Ph.D. in Computer Science, KAIST   2008
  ⋄ Thesis Topic: Network Support for Emerging Multimedia Streaming Services
  ⋄ Advisor: Sue Moon
M.S. in Computer Science, KAIST   2004
B.S. in Computer Science, KAIST (*with Honors*) 2002

Artificial Intelligence
  ⋄ Poverty Mapping: *KDD 2020, AAAI 2020*
  ⋄ Customs Fraud: *KDD 2020*
  ⋄ Review Mining: *WWW 2018, CIKM 2015*
  ⋄ Market Data: *TKDE 2020, PeerJ 2017*
  ⋄ Pretraining: *ECCV 2020*
  ⋄ Bias & Law: *CSCW 2020*
Information Propagation
  ⋄ Misinformation: *CACM 2020, AAAI 2019, PLoS One 2017, IJCAI 2016, ICDM 2013*
  ⋄ Conventions: *ICWSM 2012, CIKM 2012*
  ⋄ Innovation: *PLoS One 2012*
  ⋄ Bad News: *PLoS One 2015, ICWSM 2012*
  ⋄ Cascades: *Comp. Net 2012, IMC 2011, WWW 2009*
Public Health
  ⋄ Sleep Disorder: *KDD 2019, JMU 2019*
  ⋄ Depression: *Comput Hum Behav 2016, CSCW 2015, JMIR 2013, ICWSM 2013*
  ⋄ Exercise: *CSCW 2016*
Cultural Science
  ⋄ News: *Comput Hum Behav 2019, EPJ Data Sci 2014, WebSci 2013, ICWSM 2011*
  ⋄ Fashion, Selfies: *ICWSM 2018, ICWSM 2017, COSN 2015*
  ⋄ Emoticons: *J Commun 2014, COSN 2013, ICWSM 2013*
  ⋄ Games: *WWW 2017, WWW 2013*
  ⋄ Long-Tail Content: *IEEE ACM T Network 2009, IMC 2007*
Network Science
  ⋄ User Modeling: *WWW 2014, Info. Sci 2012, IMC 2012, IMC 2009*
  ⋄ Influence: *ICWSM 2020, IEEE T Syst Man Cy A 2012, ICWSM 2010*
  ⋄ Resilient Routing: *Comput Oper Res 2010, IMC 2008, Infocom 2006*

Technical Consulting

Presidential Council on Intellectual Property in Korea	2020 – present
Wikimedia Foundation	2020 – present
World Customs Organization (WCO)	2019 – present
Korea National Tax Service	2018 – present
Korea Internet Self-Governance Organization	2014 – 2015

Editorial Board

Future Internet	2019–present
PeerJ Journal	2018–present
ACM Transactions on Social Computing	2018–present

Senior Program & Advisory Committee

ACM Conference on Online Social Network (COSN)	2013–2017
Int'l AAAI Conference on Web and Social Media (ICWSM)	2013–2020
Int'l School and Conference on Network Science (NetSci)	2017–2018
Int'l Conference on Social Informatics (SocInfo)	2014

Program Committee

ACM Int'l Conference on Web Search and Data Mining (WSDM) Best Paper	2018
Int'l World Wide Web Conference (WWW)	2011–2019
ACM Int'l Conference on Web Search and Data Mining (WSDM)	2014
ACM Internet Measurement Conference (IMC)	2012–2013
IEEE Conference on Computer Communications (INFOCOM)	2009–2011

SELECTED
GRANTS

CI, Data Science Research at the Pioneer Research Center for Mathematical and Computational Sciences, *Institute for Basic Science (IBS)*, *Korea*
- ⬦ KRW 1,000,000,000 per year (850,000 USD/y)   2019.01–present
- ⬦ Objective: Develop deep learning and machine learning-based computational methods to provide sensible answers to challenging real-world social problems e.g., develop computer vision algorithms to analyze high-resolution satellite images for poverty mapping.

PI, Develop an AI-driven algorithm to test information veracity for heterogenous Web big data, *National Research Foundation (NRF)*, *Korea*
- ⬦ KRW 600,000,000   2017.11–present
- ⬦ Objective: Build computational models of information propagation, particularly tackling misinformation based on million-scale data, which has huge social impact.

Co-PI with Kyomin Jung (PI, Seoul National University), Developing machine intelligence based conversation system that detects situations and responds to human emotions, *Ministry of Trade*, *Industry and Energy (MOTIE) of Korea*
- ⬦ KRW 1,500,000,000   2016.12–2021.12
- ⬦ Objective: Predict sentiments and contexts from unstructured text data

Co-PI with Dongman Lee (PI, KAIST), Juyong Park and Wonjae Lee (co-PIs, KAIST), Developing of Data Mining Core Technologies for Real-time Intelligent Information Recommendation in Smart Spaces, *Ministry of Science*, *ICT and Future Planning (MSIP) of Korea*
- ⬦ KRW 830,000,000   2015.07–2017.08
- ⬦ Objective: Utilize data gathered from IoT devices and Internet for context understanding

Co-PI with Miyin Yang (PI, Korea Youth Counseling & Welfare Institute), Dongil Kim (Seoul National University), and Taemin Song (Korea Institute for Health and Social Affairs), Big data-based prediction and prevention technologies for At-risk Youth, *Ministry of the Gender Equality and Family (MOGEF) of Korea*
- ⬦ KRW 9,500,000,000 for the group   2014.07–2015.03
- ⬦ Objective: Identify markers of depressive moods from online social network activities

TEACHING

KAIST GCT564, Introduction to data analytics using R	2012–2020
KAIST CS612, Social network-aware ubiquitous computing	2011–2015
KAIST GCT606, Digital Performance	2013
KAIST GCT673, Social Computing	2011
KAIST GCT561, Scientific concept and thinking	2011
KAIST GCT661, Networked Media	2010
KAIST CTP472, Social Media and Culture	2014
KAIST HSS091, Exciting College Life	2011
KAIST HSS090, Happy College Life	2011

Publications List for Meeyoung Cha

Journals & Conferences

G. Lima, C. Kim, S. Ryu, C. Jeon, and **M. Cha**, Collecting the Public Perception of AI and Robot Rights, In *proc. of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, To appear in 2020.

S. Han, S. Park, S. Park, S. Kim, and **M. Cha**. Mitigating Embedding and Class Assignment Mismatch, In *proc. of the European Conference on Computer Vision (ECCV)*, August 2020.

K. Park, G. Lima, **M. Cha**, and C. Jeon. Explaining the Punishment/Liability Gap of AI and Robots, In *proc. of the We Robot (International Conference on Law and Policy Relating to Robotics)*, August 2020.

M. Guan, **M. Cha**, Y. Wang, J. Sun, and Y. Li. From Anticipation to Action: Data Reveal Mobile Shopping Patterns During a Yearly Mega Sale Event in China, *Transactions on Knowledge and Data Engineering (TKDE)*, June 2020. (SCI, IF=5.876)

S. Kim, Y.-C. Tsai, K. Singh, Y. Choi, E. Ibok, C.-T. Li, and **M. Cha**. DATE: Dual Attentive Tree-aware Embedding for Customs Fraud Detection, In *proc. of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2020. (Acceptance Rate=16%)

S. Han, D. Ahn, S. Park, J. Yang, S. Lee, J. Kim, H. Yang, S. Park, and **M. Cha**. Learning to score economic development from satellite imagery, In *proc. of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2020. (Acceptance Rate=16%)

M. Cha, W. Gao, and C.-T. Li. Detecting Fake News in Social Media: An Asia-Pacific Perspective, In *Communications of the ACM (CACM)*, Vol 63, No 4, 68–71, 2020.

K. Park, H. Kwak, H. Song, and **M. Cha**. "Trust me, I have a Ph.D.": A propensity score analysis on the halo effect of disclosing one's offline social status in online communities, In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2020. (Acceptance Rate=20%)

S. Han, D. Ahn, H. Cha, J. Yang, S. Park, and **M. Cha**. Lightweight and Robust Representation of Economic Scales from Satellite Imagery, In *proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, 2020.

J. Kim, K. Park, H. Song, J.Y. Park, and **M. Cha**. Learning How Spectator Reactions Affect Popularity on Twitch, In *proc. of the IEEE Conference on Big Data and Smart Computing (BigComp)*, 2020.

F. Hashemi, A. Behrouz, J. Yang, D.Y. Wohn, and **M. Cha**. Green Space and Happiness of Developed Countries, In *proc. of the IEEE Conference on Big Data and Smart Computing (BigComp)*, 2020. (Short Paper)

S. Park, S.-W. Lee, S. Han, and **M. Cha***. Clustering Insomnia Patterns by Data from Wearable Devices: Algorithm Development and Validation, In *JMIR mHealth and uHealth (JMU)*, Vol 7, No 12, 2019. (SCI-E, IF=4.3)

Y.-C. Tsai, M. Guan, C.-T. Li, **M. Cha**, Y. Li, and Y. Wang. Predicting New Adopters via Socially-Aware Neural Graph Collaborative Filtering, In *International Conference on Computational Data and Social Networks (CSoNet)*, 2019.

S. Park, C-T. Li, S. Han, C. Hsu, S.W. Lee, and **M. Cha**. Learning Sleep Quality from Daily Logs, In *proc. of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2019. (Acceptance Rate=14%)

S. Yoon, K. Park, J. Shin, H. Lim, S. Won, **M. Cha** and K. Jung. Detecting Incongruity Between News Headline and Body Text via a Deep Hierarchical Encoder, In *proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019. (Acceptance Rate=16%)

M.Y. Almoqbel, D.Y. Wohn, R.A. Hayes, and **M. Cha**. Understanding Facebook News Posts Comment Reading and Reacting Behavior through Political Extremism and Cultural Orientation, In *Elsevier Computers in Human Behavior*, 100, 118–126, 2019. (SCI-E, IF=4.306)

M. Babaei, A. Chakraborty, J. Kulshrestha, E.M. Redmiles, **M. Cha**, and K. Gummadi. Analyzing Biases in Perception of Truth in News Stories and their Implications for Fact Checking, In *proc. of the ACM Conference on Fairness, Accountability, and Transparency (FAT*)*, 2019. (Acceptance Rate=24%)

M. Guan, **M. Cha**, Y. Li, Y. Wang, J. Yu, Predicting Time-Bounded Purchases During a Mega Shopping Festival, In *proc. of the IEEE International Conference on Big Data and Smart Computing (BigComp)*, 2019.

G. Kalra, M. Yu, D. Lee, **M. Cha** and D. Kim. Ballparking the Urban Placeness: A Case Study of Analyzing Starbucks Posts on Instagram, In *proc. of the International Conference on Social Informatics (SocInfo)*, 2018.

Y-I Ha, J. Kim, D. Lim, J. Joo, and **M. Cha**. Characterizing Clickbaits on Instagram, In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2018. (Acceptance Rate=16%)

S. Park, S. W. Lee, and **M. Cha**. Exploring Intricate relationship among behavioral, biological, and sleeping dimensions, In *proc. of the International School and Conference on Network Science (NetSci) Oral Presentation*, 2018.

K. Park, **M. Cha**, and E. Rhim. Positivity Bias in Customer Satisfaction Ratings, In *proc. of the International World Wide Web Conference (WWW) Companion Track*, 2018.

J. Kim, Y-I Ha, S. Kang, H. Lim, and **M. Cha**. Detecting Multiclass Emotions from Labeled Movie Scripts, In *proc. of the IEEE International Conference on Big Data and Smart Computing (BigComp)*, 2018.

J. Kim, **M. Cha***, and J. Lee*. Nowcasting commodity prices using social media, In *PeerJ*, Jul 2017. (SCI-E, IF=2.183)

S. Kwon, **M. Cha***, and K. Jung. Rumor detection over varying time windows, In *PLOS ONE*, Jan 2017 (SCI-E, IF=3.24)
Cited over 100 times

Y-I Ha, S. Kwon, **M. Cha**, J. Joo. Fashion Conversation Data on Instagram, In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2017.

K. Park, **M. Cha**, H. Kwak, and K.-T. Chen. Achievement and Friends: Key Factors of Player Retention Vary Across Player Levels in Online Multiplayer Games, In *proc. of the International World Wide Web Conference (WWW) Companion Track*, 2017

K. Kwon and **M. Cha***. Initial small data reveal rumor traits via recurrent neural networks, In *Journal of Korean Institute of Information Scientists and Engineers*, 2017.
Best Paper Award

K. Park and **M. Cha***. Churn Analysis of Max Level Users in Online Games, In *Journal of Korean Institute of Information Scientists and Engineers*, 2017.

S.W. Lee, I. Kim, J. Yoo, S. Park, B. Jeong*, and **M. Cha***. Insights from an expressive writing intervention on Facebook to help alleviate depressive symptoms, In *Elsevier Computers in Human Behavior*, 62: 613-619, 2016. (SSCI, IF=2.694)

J. Ma, W. Gao, P. Mitra, S. Kwon, B.J. Jansen, K.-F. Wong, and **M. Cha**. Detecting Rumors from Microblogs with Recurrent Neural Networks. In *proc. of the International Joint Conference on Artificial Intelligence (IJCAI)*, 2016. (Acceptance Rate=25%)
Cited over 200 times

K. Park, I. Weber, **M. Cha**, and C. Lee. Persistent sharing of fitness app status on Twitter. In *proc. of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2016. (Acceptance Rate=23%)

H. Kim, **M. Cha**, and W. Kim. Targeted Ads Experiment on Instagram. In *proc. of the International Conference on Social Informatics (SocInfo)* Short Paper, 2016.

H. Kim, J. Park, **M. Cha***, and J. Jeong*. The Effect of Bad News and CEO Apology of Corporate on User Responses in Social Media, In *PLOS ONE*, 10 (5), 2015. (SCI-E, IF=3.234)

S. Park, I. Kim, S. Lee, J. Yoo, B. Jeong, and **M. Cha**. Manifestation of Depression and Loneliness on Social Networks: A Case Study of Young Adults on Facebook. In *proc. of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, 2015. (Acceptance Rate=28%)

F. Souza, D. de Las Casas, V. Flores, S.B. Youn, **M. Cha**, D. Quercia. Dawn of the selfie era: The whos, wheres, and hows of selfies on Instagram. In *proc. of the ACM Conference on Online Social Networks (COSN)*, 2015. (Acceptance Rate=27%)

K. Park, J. Kim, J. Park, **M. Cha**, J. Nam, S. Yoon, E. Rhim Mining the Minds of Customers from Online Chat Logs. In *proc. of the ACM Conference on Information and Knowledge Management (CIKM)*, 2015. (Acceptance Rate=21%)

J. An, D. Quercia, **M. Cha***, K. Gummadi, and J. Crowcroft. Sharing political news: the balancing act of intimacy and socialization in selective exposure, In *EPJ Data Science*, 3 (12), 2014. (SSCI, IF=2.78)

J. Park, Y. M. Baek*, and **M. Cha**. Cross-cultural Comparison of Nonverbal Cues in Emoticons on Twitter: Evidence from Big Data Analysis. In *Wiley Journal of Communication*, 64 (2): 333—354, 2014. (IF=3.16)
Cited over 100 times

C. Zhong, M. Salehi, S. Shah, M. Cobzarenco, N. Sastry, and **M. Cha**. Social Bootstrapping: Developing Social Communities by Borrowing from Established Social Networks. In *proc. of the International World Wide Web Conference (WWW)*, 2014. (Acceptance Rate=13%)

K. Park*, Y.-C. Kim, Y. Kim, **M. Cha**, W.H. Han, and D.-K. Oh. Suggestions for establishing a sustainable risk communication platform for carcinogenic factors, In *Epidemiology and Health*, 36: e2014034, 2014.

J. Kim, **M. Cha**, T. Sandholm, and W. Lee*. Identifying Crime-Prone Areas Based on Tweet Sentiments, In *SK Telecommunications Review*, 24 (3), Jun 2014.

S. Park, S.W. Lee, J. Kwak, **M. Cha**, and B. Jeong*. Activities on Facebook reveal depressive state of users, In *Journal of Medical Internet Research (JMIR)*, 15 (10): e217, 2013. (SCI-E, IF=4.7)

M. Park, **M. Cha**, Y. Kweon, and C. Cha. Depressive Moods of Users Portrayed in Twitter, In *SK Telecommunications Review*, 23 (3), 2013.

J.-K. Lou, K. Park, **M. Cha**, J. Park, C.-L. Lei, and K.-T. Chen. Gender Swapping and User Behaviors in Online Social Games. In *proc. of the International World Wide Web Conference (WWW)*, 2013. (Acceptance Rate=15%)

S. Kwon, **M. Cha**, K. Jung, W. Chen, and Y. Wang. Prominent Features of Rumor Propagation in Online Social Media. In *proc. of the IEEE International Conference on Data Mining (ICDM)*, 2013. (Acceptance Rate=19%)
Featured in Washington Post, Cited over 300 times

J. Park, V. Barash, C. Fink, and **M. Cha**. Emoticon Style: Interpreting Differences in Emoticons Across Cultures. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2013. (Acceptance Rate=20%)
Honorable Mention, Cited over 100 times

M. Park, D. W. McDonald, and **M. Cha**. Perception Differences between the Depressed and Non-depressed Users in Twitter. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2013. (Acceptance Rate=20%)

S. Kwon, **M. Cha**, K. Jung, W. Chen, and Y. Wang. Aspects of Rumor Spreading on a Microblog Network. In *proc. of the International Conference on Social Informatics (SocInfo)*, 2013.

P. Goncalves, M. Araujo, F. Benevenuto, and **M. Cha**. Comparing and Combining Sentiment Analysis Methods. In *proc. of the ACM Conference on Online Social Networks (COSN)*, 2013. (Acceptance Rate=16%)
Cited over 300 times

J. An, D. Quercia, **M. Cha**, K. Gummadi, and J. Crowcroft. Traditional media seen from social media. In *proc. of the ACM Web Science (WebSci)* Note Paper, 2013. (Acceptance Rate=15%)

J. L. Toole*, **M. Cha**, and M. C. Gonzalez. Modeling the Adoption of Innovations in the Presence of Geographic and Media Influences, In *PLOS ONE*, 7 (1): e29528, Jan 2012. (SCI-E, IF=4.351)

F. Benevenuto*, T. Rodrigues, **M. Cha**, and V. Almeida. Characterizing User Navigation and Interactions in Online Social Networks, In *Elsevier Information Sciences*, 195 (15): 1–24, 2012. (SCI, IF=2.833)
Cited over 100 times

M. Cha*, F. Benevenuto, H. Haddadi, and K. Gummadi. The world of connections and information flow in Twitter, In *IEEE Transactions on Systems, Man and Cybernetics - Part A Systems and Humans*, 42 (4): 991–998, 2012. (SCI, IF=2.03)
Cited over 100 times

M. Cha*, F. Benevenuto, Y.-Y. Ahn, and K. Gummadi. Delayed Information Cascades in Flickr: Measurement, Analysis, and Modeling, In *Elsevier Computer Networks*, 56 (3): 1066–1076, 2012. (SCI-E, IF=1.176)

F. Kooti, H. Yang, **M. Cha**, K.P. Gummadi, and W.A. Mason. The Emergence of Conventions in Online Social Networks. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2012. (Acceptance Rate=20%)
Best Paper Award, Cited over 100 times

J. Park, **M. Cha**, H. Kim, and J. Jeong. Managing Bad News in Social Media: A Case Study on Domino's Pizza Crisis. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2012. (Acceptance Rate=20%)

G. Magno, G. Comarela, D. Saez, and **M. Cha**, and V. Almeida. New Kid on the Block: Exploring the Google+ Social Graph. In *proc. of the ACM Internet Measurement Conference (IMC)*, 2012. (Acceptance Rate=24%)

F. Kooti, W.A. Mason, K.P. Gummadi, and **M. Cha**. Predicting Emerging Social Conventions in Online Social Networks. In *proc. of the ACM Conference on Information and Knowledge Management (CIKM)*, 2012. (Acceptance Rate=13%)

M. Cha*, J. A. Navarro Perez, and H. Haddadi. The Spread of Media Content Through Blogs, In *Springer Social Network Analysis and Mining (SNAM)*, 2 (3): 249—264, 2011.

T. Rodrigues, F. Benevenuto, **M. Cha**, K.P. Gummadi, and V. Almeida. On Word-of-Mouth Based Discovery of the Web. In *proc. of the ACM Internet Measurement Conference (IMC)*, 2011. (Acceptance Rate=19%)
Cited over 100 times

J. An, **M. Cha**, K.P. Gummadi, and J. Crowcroft. Media Landscape in Twitter: A World of New Conventions and Political Diversity. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2011. (Acceptance Rate=19%)
Featured in Bloomberg BusinessWeek, Cited over 100 times

J. Park, H. Kim, **M. Cha**, and J. Jeong. CEO's apology in Twitter: A case study of the fake beef labeling incident by E-Mart. In *proc. of the International Conference on Social Informatics (SocInfo)* Poster Paper, 2011.

Z. Liang, W. Chaovalitwongse*, **M. Cha**, and S. Moon. Redundant Multicast Routing in Multilayer Networks with Shared Risk Resource Groups: Complexity, Models and Algorithms, In *Elsevier Computers & Operations Research*, 37 (10): 0305-0548, 2010. (SCI-E, IF=1.366)

M. Cha, H. Haddadi, F. Benevenuto, and K.P. Gummadi. Measuring User Influence in Twitter: The Million Follower Fallacy. In *proc. of the International AAAI Conference on Weblogs and Social Media (ICWSM)*, 2010. (Acceptance Rate=19%)
Featured in NYTimes and Harvard Business Review websites, Cited over 3500 times

M. Cha*, H. Kwak, P. Rodriguez, Y.-Y. Ahn, and S. Moon. Analyzing the Video Popularity Characteristics of Large-Scale User Generated Content Systems, In *IEEE/ACM Transactions on Networking*, 17 (5): 1357–1370, 2009. (SCI, IF=2.576)
Cited over 400 times

M. Cha*, W. Chaovalitwongse, J. Yates, A. Shaikh, and S. Moon. Efficient and Scalable Provisioning of Always-On Multicast Streaming Services, In *Elsevier Computer Networks*, 53 (16): 2825–2839, 2009. (SCI-E, IF=1.304)

M. Cha, A. Mislove, and K.P. Gummadi. A Measurement-driven Analysis of Information Propagation in the Flickr Social Network. In *proc. of the International World Wide Web Conference (WWW)*, 2009. (Acceptance Rate=11%)
Cited over 900 times

F. Benevenuto, T. Rodrigues, **M. Cha**, and V. Almeida. Characterizing User Behavior in Online Social Networks. In *proc. of the ACM Internet Measurement Conference (IMC)*, 2009. (Acceptance Rate=22%)
Cited over 1000 times

M. Cha, P. Rodriguez, S. Moon, J. Crowcroft, and X. Amatriain. Watching Television over an IP Network. In *proc. of the ACM Internet Measurement Conference (IMC)*, 2008. (Acceptance Rate=17%)
Cited over 300 times

M. Cha, H. Kwak, P. Rodriguez, Y.-Y. Ahn, and S. Moon. I Tube, You Tube, Everybody Tubes: Analyzing the World's Largest User Generated Content Video System, In *proc. of the ACM Internet Measurement Conference (IMC)*, 2007. (Acceptance Rate=25%)
Best Paper Award, Cited over 1800 times

M. Cha, S. Moon, C.-D. Park, and A. Shaikh. Placing Relay Nodes for Intra-Domain Path Diversity, In *proc. of the IEEE Conference on Computer Communications (INFOCOM)*, 2006. (Acceptance Rate=18%)

M. Cha, W. Chaovalitwongse, Z. Ge, J. Yates, and S. Moon. Path Protection Routing with SRLG Constraints to Support IPTV in WDM Mesh Networks, In *proc. of the IEEE Global Internet Symposium (GI)*, 2006.

M. Cha, C.-G. Lyuh, and T. Kim. Resource-Constrained Low-Power Bus Encoding with Crosstalk Delay Elimination, In *proc. of the ACM/IEEE Asia Pacific Design Automation Conference (ASP-DAC)*, 2004.

WORKSHOPS &
POSTERS

G. Lima, **M. Cha**, C. Jeon, and K. Park. Will Punishing Robots Become Imperative in the Future?, In *proc. of the Extended Abstracts of the ACM CHI Conference on Human Factors in Computing Systems*, 2020.

G. Lima, and **M. Cha**. Responsible AI and Its Stakeholders, In *Fair Responsible AI Workshop, co-located with ACM CHI Conference on Human Factors in Computing Systems*, 2020.

S.Y. Bae, T. Kim, Y. Ha, and **M. Cha**. The power to mobilize or to disrupt? Examining the dynamics of online public discourse through the #MeToo movement. In *the Annual Meeting of the International Communication Association (ICA)*, 2020.

S.Y. Bae, T. Kim, Y. Ha, and **M. Cha**. Antecedents to theAnti-Sentiment: Understanding the Backlash to the #MeToo Movement. In *the Annual Meeting of the International Communication Association (ICA)*, 2020.

J. Han, Y. Lee, J. Lee, and **M. Cha**. The Fallacy of Echo Chambers: Analyzing the Political Slants of User-Generated News Comments in Korean Media, In *the 5th Workshop on Noisy User-generated Text (W-NUT), co-located with EMNLP*, 2019.

C. Phentmunee, H.D. Thi, H.D. Vu, D. Ahn, H.Cha, S. Han, and **M. Cha**. Image Super Resolution Techniques Applied on Satellite Imagery, In *International Workshop and Challenge on Real-World Recognition from Low-Quality Images and Videos, co-located with ICCV*, 2019.

D. Ahn, S. Han, H.Cha and **M. Cha**. Predicting Urbanization from Daytime Satellite Imagery based on Descriptive Statistics, In *Workshop on AI and the United Nation SDGs, co-located with IJCAI*, 2019

M. Babaei, A. Chakraborty, J. Kulshrestha, E. M. Redmiles, **M. Cha** and K. Gummadi. Analysing Biases in Perception of Truth in News Stories and their Implications for Fact Checking, In *proc. of the Fairness in User Modeling, Adaptation and Personalization (FairUMAP)*, 2018.

H. Lim, C. Chung, J. Kim, J. Kim, S. Moon, and **M. Cha**. Changing News Media Landscape in South Korea. In *proc. of the Fourth Workshop on Social News On the Web (SNOW) co-located with the World Wide Web (WWW) Conference* 2017.

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