

Meeyoung Cha

CONTACT

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INTERESTS

Applying data science and AI methods to understand patterns of socially meaningful information (such as poverty, food security, disasters, misinformation, frauds, and hate speech). Collectively, these questions have consequences for information, human, national, and environmental security. These are complex challenges that could be handled best through interdisciplinary research in collaboration with social science and humanities scholars.

Information Security: Social dynamics, trustworthy systems, misinformation, hate speech

Human Security & Privacy: Human-centric AI, fairness, accountability, transparency

National & Environmental Security: Tax fraud, sustainable development, climate modeling

POSITIONS

Institute for Basic Science (IBS), Daejeon, Korea

Chief Investigator 2019.01 - present

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

Associate Professor, School of Computing 2017.08 – present

Adjunct Professor, Department of Brain and Cognitive Science 2022.09 – 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

Facebook, Menlo Park, USA

Visiting Professor 2015.08 – 2016.08

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 and Editor

Int'l Conference on Web and Social Media (ICWSM), co-Editor-in-Chief 2021

The Web Conference (WWW) Web and Society Track Chair & Proceedings Chair 2021

Int'l Conference on Web and Social Media (ICWSM) 2015

Keynotes

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2022

Int'l Conference on Computational Social Science (IC2S2) 2021

Network Science Society's winter conference series (NetSci-X) 2020

World Customs Organization (WCO) Policy Commission and Conference 2019

Conference on Empirical Methods in Natural Language Processing (EMNLP) 2019

Int'l Conference on Social Informatics (SocInfo) 2016

Awards

Test-of-Time Awards at AAAI ICWSM 2020 & ACM IMC 2022

Minister of Science and ICT Award in Korea 2022

Young Information Scientist Award in Korea 2019

Best Paper Awards at ICWSM 2012, ACM IMC 2007

CITATIONS

Google Scholar 19,320 citations (as of March 14, 2023)

<https://scholar.google.com/citations?user=iFlnVCoAAA&hl=enoi=ao>

Papers with 1000 or more citations: 5

Papers with 100 or more citations: 26

H-index: 43, i10-index: 82

EDUCATION

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

PUBLICATION SUMMARY**Information Security**

Social Dynamics: *WWW22, EPJ21, ICWSM20, WWW18, ICWSM17, PlosOne15*
 Trustworthy Systems: *CVPR21, ECCV20*
 Misinformation: *JMIR HF21, CACM20, AAAI20, ICWSM18, PlosOne17, IJCAI16*
 Fact-checking: *PLosOne22, TCSS21, WWW21, JOA21, FAT**
 Health: *WWW22, JMIR21, JMU19, KDD19, CHB16, CSCW16, CSCW15*

Human Security & Privacy

Human-centric AI: *JMIR23, Fron.AI21, CSCW20*
 Fairness & Accountability: *ECCV22, CSCW22, Fron.AI21, CHI21*
 Transparency: *NeurIPS22, FAccT22*

National & Environmental Security

Fraud Detection: *TKDE22, AAAI22, BMVC21, KDD20*
 Poverty Mapping: *AAAI22, KDD20, AAAI20, PeerJ17*
 Climate Action & Modeling: *EPJ DS21, Fron.Env22, KDD22*

SELECTED SERVICES**Technical Consulting**

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

Editorial Board

Board Member, ACM Transactions on Social Computing	2018–2020
Co-Editor-in-Chief, ICWSM	2020–present

Senior Program & Advisory Committee

Advisory, <i>ACM Conference on Online Social Network (COSN)</i>	2013–2017
Best Paper Committee, <i>ACM Web Search and Data Mining (WSDM)</i>	2018
Senior PC, <i>Int'l AAAI Conference on Web and Social Media (ICWSM)</i>	2013–2020
Senior PC, <i>Int'l School and Conference on Network Science (NetSci)</i>	2017–2018
Senior PC, <i>Int'l Conference on Social Informatics (SocInfo)</i>	2014
Senior PC, <i>The Web Conference (WWW)</i>	2011–2019

ALUMNI & MENTORING**Alumni Records**

Seven student startups as CEOs (including DailyHotel that sold at 40 million USD)
 Six alumni have become faculty members (including KAIST and NYU Abu Dhabi)

Mentoring and Leadership

Selected as the KAIST Globalization Excellence Lab 2023
 Woman Scientists club to donate 100,000 USD to KAIST for diversity cause 2022
 Woman Leaders club featured on the "She Did It" campaign by KOFWST 2021
 Lecturer at the KAIST Global Leadership Program Series 2020–present
 Speaker at the World Knowledge Forum 2021 & Women Tech Stars at KAIST 2022

SELECTED
GRANTS

- PI**, Data Science Research at the Pioneer Research Center for Mathematical and Computational Sciences, *Institute for Basic Science (IBS), Korea*
 ◇ KRW 5,000,000,000 (4 Million USD) 2019.01–2023.12
 ◇ 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**, Research on trustworthy AI technology to counteract misinformation in heterogeneous big data, *National Research Foundation (NRF), Korea*
 ◇ KRW 625,130,000 (500,000 USD) 2022.09–2027.02
 ◇ Objective: Build computational models for a trustworthy AI information system.
- PI**, Exploring Fairness and Explainability for Responsible AI, *Institute for Information & Communication Technology Planning (IITP), Korea*
 ◇ KRW 200,000,000 (160,000 USD) 2021.05–2023.04
 ◇ Objective: Create explainable and fair AI models and talent development.
- PI**, Develop an AI-driven algorithm to test information veracity for heterogeneous Web big data, *National Research Foundation (NRF), Korea*
 ◇ KRW 600,000,000 (475,000 USD) 2017.11–2022.10
 ◇ 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 CS564/GCT564, Data Science Methodology 2012–2022
 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

Publications List

JOURNALS & CONFERENCES

D. Ahn, J. Yang, **M. Cha***, **H. Yang***, **J. Kim***, **S. Park***, S. Han, E. Lee, S. Lee, S. Park, A Human-machine Collaborative Approach Measures Economic Development using Satellite Imagery, In *Nature Communications*, 2023 (Accepted). (IF=17.69)

S. Han, M. Shin, S. Park*, C. Jung and **M. Cha***. Unified Neural Topic Model via Contrastive Learning and Term Weighting, In *proc. of the Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, May 2023 (Accepted).

S. Song, H. Song, K. Park*, J. Han* and **M. Cha**. Detecting Contextomized Quotes in News Headlines by Contrastive Learning, In *proc. of the Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, May 2023 (Accepted).

A. Baigutanova, J. Myung, A.-J. Chou, D. Saez-Trumper, M. Redi, C. Jung and **M. Cha**. Longitudinal Assessment of Reference Quality on Wikipedia, In *proc. of the Web Conference (WWW)*, April 2023 (Accepted).

<https://arxiv.org/abs/2303.05227>

S. Han, S. Lee, F. Wu, S. Kim, C. Wu, X. Wang, X. Xie and **M. Cha**. DualFair: Fair Representation Learning at Both Group and Individual Levels via Contrastive Self-supervision, In *proc. of the Web Conference (WWW)*, April 2023 (Accepted).

G. Lima, N. Grgić-Hlača, and **M. Cha**. Blaming Humans and Machines: What Shapes People's Reaction to Algorithmic Harm, In *proc. of the ACM CHI Conference on Human Factors in Computing Systems*, April 2023 (Accepted).

Video: https://www.youtube.com/watch?v=c7WvHoy_91A

H. Chin, G. Lima, M. Shin, A. Zhunis, C. Cha, J. Choi, and **M. Cha***. User-Chatbot Conversations During the COVID-19 Pandemic: A Study Based on Topic Modeling and Sentiment Analysis, In *Journal of Medical Internet Research (JMIR)*, 2023. Special Issue on "Chatbots and COVID-19" by the World Health Organization (WHO) (IF=7.08).

<https://doi.org/10.2196/40922>

K. Singh, S. Lee, G. Labianca, J. M. Fagan, and **M. Cha**. Multi-Stage Learning for Hierarchical Tie Valence Prediction, In *ACM Transactions on Knowledge Discovery from Data (TKDD)*, forthcoming in press, 2023 (IF=4.68)

<https://doi.org/10.1145/3579096>

S. Lee, X. Wang, S. Han, X. Yi, X. Xie, and **M. Cha**. Self-explaining deep models with logic rule reasoning, In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.

<https://openreview.net/forum?id=8SY8ete3zu>

D. Kim, J. Won, E. Lee, K. Park, J. Kim, S. Park, H. Yang, and **M. Cha**. Disaster assessment using computer vision and satellite imagery: Applications in water-related building damage detection, In *Frontiers in Environmental Science*, 2022. (IF=4.75)

<https://doi.org/10.3389/fenvs.2022.969758>

S. Han, S. Park, F. Wu, S. Kim, C. Wu, X. Xie, and **M. Cha**. FedX: Unsupervised Federated Learning with Cross Knowledge Distillation, In *proc. of the European Conference on Computer Vision (ECCV)*, 2022.

https://doi.org/10.1007/978-3-031-20056-4_40

S. Park, K. Singh, T.-D. Mai, A. Nellikkattil, E. Zeller, and **M. Cha**. Downscaling Earth System Models with Deep Learning, In *proc. of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2022. (Acceptance Rate = 25.8%)
<https://doi.org/10.1145/3534678.3539031>

S. Kim, T.-D. Mai, S. Han, T. Nguyen, J. So, K. Singh, and **M. Cha**. Active Learning for Human-in-the-Loop Customs Inspection, In *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2022. (IF=4.561)
<https://ieeexplore.ieee.org/document/9695316>

J. Han, Y. Lee, J. Kim, and **M. Cha**. News Comment Sections and Online Echo Chambers: The Ideological Alignment Between Partisan News Stories and Their User Comments, In *Journalism*, March, 2022. (IF=4.436)
<https://doi.org/10.1177/14648849211069241>

G. Lima, J. Han, and **M. Cha**. Others Are to Blame: A Multi-Faceted View on How People Attribute Responsibility For Online Misinformation, In *proc. of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, October 2022.
<https://dl.acm.org/doi/10.1145/3512953>

G. Lima, N. Grgić-Hlača, J.K. Jeong, and **M. Cha**. The Conflict Between Explainable and Accountable Decision-Making In *proc. of the ACM Conference on Fairness, Accountability, and Transparency (FAccT)*, June 2022.
<https://doi.org/10.1145/3531146.3534628>

S. Park, H. Song, S. Han, B. Weldegebriel, L. Manovich, E. Arielli, and **M. Cha**. Using Web Data to Reveal 22-Year History of Sneaker Designs, In *proc. of the Web Conference (WWW)*, April 2022. (Acceptance Rate = 17.7%) **Best Paper Candidate**
<https://doi.org/10.1145/3485447.3512017>

A. Zhunis, G. Lima, J. Han, and **M. Cha**. Emotion Bubbles: Emotional Compositions of Online Discourse Before and After the COVID-19 Outbreak, In *proc. of the Web Conference (WWW)*, April 2022. (Acceptance Rate = 17.7%)
<https://doi.org/10.1145/3485447.3512132>

K. Singh, G. Lima, **M. Cha***, C. Cha, J. Kulshrestha, Y.-Y. Ahn, and O. Varol. Misinformation, believability, and vaccine acceptance over 40 countries: Takeaways from the initial phase of the COVID-19 infodemic, In *PLOS ONE*, February, 2022. (IF=3.752)
<https://doi.org/10.1371/journal.pone.0263381>

S. Park, S. Han, D. Ahn, J. Kim, J. Yang, S. Lee, S. Hong, J. Kim, S. Park, H. Yang, and **M. Cha**. Learning economic indicators by aggregating multi-level geospatial information, In *proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, February 2022. (Acceptance Rate=15%)
<https://doi.org/10.1609/aaai.v36i11.21464>

S. Park, S. Kim, and **M. Cha**. Knowledge Sharing via Domain Adaptation in Customs Fraud Detection, In *proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, February 2022.
<https://doi.org/10.1609/aaai.v36i11.21465>

G. Lima, **M. Cha**, C. Jeon, and K. S. Park. The Conflict Between People's Urge to Punish AI and Legal Systems, In *Frontiers in Robots and AI*, 2021.
<https://doi.org/10.3389/frobt.2021.756242>

S. Han, H. Song, S. Lee, S. Park, and **M. Cha**. Elsa: Energy-based Learning for Semi-supervised Anomaly Detection, In *proc. of the British Machine Vision Conference (BMVC)*, 2021.
<https://www.bmvc2021-virtualconference.com/assets/papers/0451.pdf>

- G. Lima, A. Zhunis, L. Manovich*, and **M. Cha***. On the Social-Relational Moral Standing of AI: An Empirical Study Using AI-Generated Art, In *Frontiers in Robots and AI*, August, 2021.
<https://doi.org/10.3389/frobt.2021.719944>
- M. Babaei, A. Chakraborty, J. Kulshrestha, E.M. Redmiles, **M. Cha**, and K. Gummadi*. Analyzing Biases in Perception of Truth in NewsStories and Their Implications for Fact Checking, In *IEEE Transactions on Computational Social Systems (TCSS)*, July, 2021. (IF=5.36)
<https://ieeexplore.ieee.org/document/9499338/>
- H. Song, K. Park* and **M. Cha***. Finding Epic Moments in Live Content through Learning from Collective Decisions, In *EPJ Data Science*, 10:43, 2021. (IF=5.08)
<https://doi.org/10.1140/epjds/s13688-021-00278-7>
- O.-H. Kwon, I. Hong, J. Yang, D.Y. Wohn, W.-S. Jung* and **M. Cha***. Urban green space and happiness in developed countries, In *EPJ Data Science*, 2021. (IF=5.08)
<https://doi.org/10.1140/epjds/s13688-021-00278-7>
- S. Park, J.Y. Park, J.H. Kang, H. Chin, and **M. Cha**. Experimental Study to Understand User Experience and Perception Bias Occurred by Fact-checking Messages, In proc. of the *Web Conference (WWW)*, April 2021. (Acceptance rate = 20.6%)
<https://doi.org/10.1145/3442381.3450121>
- S. Park, S. Han, S. Kim, D. Kim, S. Park, S. Hong, and **M. Cha**. Improving Unsupervised Image Clustering With Robust Learning, In proc. of the *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2021. (Acceptance rate = 23.7%)
<https://arxiv.org/abs/2012.11150>
- S. Park, S. Han, J. Kim, M.M. Molaie, H.D. Vu, K. Singh, J. Han, W. Lee, and **M. Cha***. COVID-19 Discourse on Twitter in Four Asian Countries: Case Study of Risk Communication, In *Journal of Medical Internet Research (JMIR)*, 23 (3), e23272, 2021.
<https://doi.org/10.2196/23272>
- S. Yoon, K. Park, M. Lee, T. Kim, M. Cha, and K. Jung*, Learning to Detect Incongruence in News Headline and Body Text via a Graph Neural Network, *IEEE Access*, 2021. (IF=3.764)
<https://doi.org/10.1109/ACCESS.2021.3062029>
- M. Cha***, C. Cha, K. Singh, G. Lima, Y.-Y. Ahn, J. Kulshrestha, and O. Varol. Prevalence of Misinformation and Factchecks on the COVID-19 Pandemic in 35 Countries: Observational Infodemiology Study, In *JMIR Human Factors*, 8(1), January 2021.
<https://doi.org/10.2196/23279>
- Y. Ha, K. Park, S.J. Kim*, J. Joo*, and **M. Cha***. Automatically Detecting Image-Text Mismatch on Instagram with Deep Learning, In *Journal of Advertising*, January 2021. (SSCI, IF=6.302)
<https://doi.org/10.1080/00913367.2020.1843091>
- G. Lima, N. G.-H., and **M. Cha**. Human Perceptions on Moral Responsibility of AI: A Case Study in AI-Assisted Bail Decision-Making, In proc. of the *ACM CHI Conference on Human Factors in Computing Systems*, 2021. (Acceptance Rate=26.3%)
<https://doi.org/10.1145/3411764.3445260>
- J. Han, **M. Cha**, and W. Lee, Anger contributes to the spread of COVID-19 misinformation, In *Harvard Kennedy School (HKS) Misinformation Review*, September 2020.
<https://doi.org/10.37016/mr-2020-39>
- 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)*, October 2020.
<https://dl.acm.org/doi/10.1145/3415206>

- 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.
<https://paperswithcode.com/paper/mitigating-embedding-and-class-assignment>
- 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)
<https://ieeexplore.ieee.org/document/9115271/>
- 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%)
<https://doi.org/10.1145/3394486.3403339>
- 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%)
<https://doi.org/10.1145/3394486.3403347>
- 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.
<https://doi.org/10.1145/3378422>
- 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 Int’l AAAI Conference on Weblogs and Social Media (ICWSM)*, 2020. (Acceptance Rate=20%)
<https://www.aaai.org/ojs/index.php/ICWSM/article/view/7321/7175>
- 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.
<https://aaai.org/ojs/index.php/AAAI/article/view/5379>
- 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)
<https://doi.org/10.2196/14473>
- 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%)
<https://doi.org/10.1145/3292500.3330792>
- 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%)
<https://www.aaai.org/ojs/index.php/AAAI/article/view/3756/3634>
- 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)
<https://doi.org/10.1016/j.chb.2019.06.006>
- 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.
<https://doi.org/10.1145/3287560.3287581>

PUBLICATIONS
(UP TO 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%)

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, **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 700 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

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 900 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, 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)

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%)

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