

Meeyoung Cha

CONTACT

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RESEARCH INTERESTS

Data Science for Humanity Understanding the patterns of socially meaningful information (e.g., fake news, offensive language, conventions, media bias), designing human-centric AI (e.g., fairness, accountability, explainability), and developing computational approaches for the United Nations Sustainable Development Goals (e.g., poverty mapping, well-being).

POSITIONS

Institute for Basic Science (IBS), Daejeon, Korea
Joint Appointment as 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 Sciences 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
General Chair, Conference on Information and Knowledge Management (CIKM) 2025
PC Chair, ACM International WSDM Conference 2025
Editor-in-Chief, Int'l Conference on Web and Social Media (ICWSM) 2021–present
Track Chair & Proceedings Chair, The Web Conference (WWW) 2021
PC Chair, ICWSM 2015

Keynotes

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2022
Int'l Conference on Computational Social Science (IC2S2) 2021
Conference for Truth and Trust Online (TTO) 2020
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 Award, ACM IMC 2022
Test-of-Time Award, AAI ICWSM 2020
Minister of Science and ICT Award in Korea 2022
Young Information Scientist Award in Korea 2019

CITATIONS

Google Scholar 20,008+ citations (as of August 11, 2023)
<https://scholar.google.com/citations?user=iFlnVCoAAAAJ&hl=enoi=ao>
Papers with 1000 or more citations: 6
Papers with 100 or more citations: 26
H-index: 44, i10-index: 89

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

Socially Meaningful Information

Social Dynamics: *WWW22, EPJ21, ICWSM20, WWW18, ICWSM17, PlosOne15*
Trustworthy Systems: *CVPR21, ECCV20*
Misinformation: *PLoSOne22, CACM20, AAAI20, ICWSM18, PlosOne17, IJCAI16*
Fact-checking: *PLoSOne22, TCSS21, WWW21, JOA21*
Health: *WWW22, JMIR21, JMU19, KDD19, CHB16, CSCW16, CSCW15*
Media Bias: *Journalism22, ICWSM11*

Human-Centric AI

AI chatbots: *JMIR23, Fron.AI21, CSCW20*
Fairness/Accountability: *ECCV22, CSCW22, Fron.AI21, CHI21*
Transparency: *NeurIPS22, FAccT22*

Data Science for Sustainable Development

Fraud Detection: *TKDE22, AAAI22, BMVC21, KDD20*
Poverty Mapping: *NComm23, AAAI22, KDD20, AAAI20, PeerJ17*
Climate Action : *EPJ DS21, Fron.Env22, KDD22*

SELECTED SERVICES

Technical Consulting

Presidential Council on IP (Intellectual Property) in Korea	2022 – present
Korea Copyright Commission	2021 – present
Wikimedia Foundation	2020 – present
World Customs Organization (WCO)	2019 – 2022
Korea Customs Service	2020 – 2022
Korea Internet Self-Governance Organization	2014 – present
Korea National Tax Service	2018 – 2020

Editorial Board

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

Senior Program & Advisory Committee

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

ALUMNI & LEADERSHIP

Alumni Records

Graduated 20 M.S. and 7 Ph.D. students during 2010–2023
Hired over 105 undergraduate interns from over 16 countries during 2010–2023
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)

Leadership

Awarded KAIST Globalization Excellence Lab 2023 (nominated by international students)
Woman Scientists Club to jointly donate 100,000 USD to KAIST for diversity cause in 2022
Featured on "She Did It" campaign by KOFWST (Korean Women Scientists Federation) 2021
Speaker at the World Knowledge Forum 2021
Speaker at the Seoul Digital Forum (SDF) 2012
Speaker at the N2 (Networking) Womans Event at SIGCOMM 2009

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
- 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
- PI**, Exploring Fairness and Explainability for Responsible AI, *Institute for Information and Communication Technology Planning (IITP), Korea*
◇ KRW 200,000,000 (160,000 USD) 2021.05–2023.04
- 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
- 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
- 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
- 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

TEACHING

- KAIST CS492, Generative AI and Its Impact on Society 2023 Fall
- KAIST CS564/GCT564, Data Science Methodology 2012–2022
- KAIST CS612, Social Network-Aware Ubiquitous Computing 2011–2015
- KAIST GCT673, Social Computing 2011
- KAIST GCT561, Scientific Concept and Thinking 2011
- KAIST GCT661, Networked Media 2010

Publications List

KEY PUBLICATIONS (2019–2023)

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.

S. Park, A. Zhunis, M. Constantinides, L. M. Aiello, D. Quercia*, and **M. Cha***, Social dimensions impact individual sleep quantity and quality, In *Scientific Reports*, 2023.

S. Park, J.Y. Park, J.H. Kang, H. Chin, and **M. Cha**. An Experimental Study to Understand User Experience and Perception Bias Occurred by Fact-checking Messages, In *proc. of the Web Conference (WWW)*, 2021.

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.

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)*, 2020.

ALL PUBLICATIONS

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

D.-K. Kim, J. Kwon, **M. Cha***, and C. Justin Lee*, Transformer as a hippocampal memory consolidation model based on NMDAR-inspired nonlinearity, In *Advances in Neural Information Processing Systems (NeurIPS)*, December 2023. (Acceptance Rate=26.1%)

C.-Y. Low, J. C.-L. Chai, J. Park, K. Ann, and **M. Cha***, SlackedFace: Learning a Slacked Margin for Low-Resolution Face Recognition In *proc. of the British Machine Vision Conference (BMVC)*, November 2023. (Oral Presentation)

J. Han,* S. E. Lee, **M. Cha***. The Secret to Successful Evocative Messages: Anger Takes the Lead in Information Sharing Over Anxiety, In *Communication Monographs*, 2023. (SSCI, IF=2.695)

D. Ahn, M. Song, S. Lee, Y. Choi, J. Kim, S. Park, H. Yang and **M. Cha**. Fine-Grained Socioeconomic Prediction from Satellite Images with Distributional Adjustment, In *proc. of the ACM Conference on Information and Knowledge Management (CIKM)*, October 2023. (Acceptance Rate=27.4%)

A. Baigutanova, D. Saez-Trumper, M. Redi, **M. Cha**, and P. Aragon. A Comparative Study of Reference Reliability in Multiple Language Editions of Wikipedia, In *proc. of the ACM Conference on Information and Knowledge Management (CIKM)*, October 2023. (Acceptance Rate=27.4%)

K. Singh, Y.-C. Tsai, C.-T. Li, **M. Cha**, and S.-D. Lin, GraphFC: Customs Fraud Detection with Label Scarcity, In *proc. of the ACM Conference on Information and Knowledge Management (CIKM)*, October 2023. (Acceptance Rate=27.4%)

S. Han, S. Park, F. Wu, S. Kim, B. Zhu, X. Xie, and **M. Cha**. Towards Attack-tolerant Federated Learning via Critical Parameter Analysis, In *proc. of the International Conference on Computer Vision (ICCV)*, October 2023. (Acceptance Rate=26.8%)
<https://arxiv.org/abs/2308.09318>

J. Lee, H. Song, D. Lee, S. Kim, J. Sim, **M. Cha**, and K.-R. Park. Machine Learning Driven Aid Classification for Sustainable Development, In *proc. of the International Joint Conference on Artificial Intelligence (IJCAI)*, August 2023. (Acceptance Rate=15%)
<https://doi.org/10.24963/ijcai.2023/670>

S. Park, S. Han, F. Wu, S. Kim, B.B. Zhu, X. Xie, and **M. Cha**. FedDefender: Client-Side Attack-Tolerant Federated Learning, In *proc. of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, August 2023. (Acceptance Rate = 22.1%)
<https://github.com/deu30303/feddefender>

S. Park, A. Zhunis, M. Constantinides, L. M. Aiello, D. Quercia*, and **M. Cha***, Social dimensions impact individual sleep quantity and quality, In *Scientific Reports*, 13:9681, 2023. (SCI-E, IF=4.997).
<https://www.nature.com/articles/s41598-023-36762-5>

H. Lee, S. Hong, J. Park, T. Kim, **M. Cha**, Y. Choi, B. Kim, G. Kim, E.-J. Lee, Y. Lim, A. Oh, S. Park, and J.-W. Ha, SQuARE: A Large-Scale Dataset of Sensitive Questions and Acceptable Responses Created Through Human-Machine Collaboration, In *proc. of the Annual Meeting of the Association for Computational Linguistics (ACL)*, July 2023. (Acceptance Rate=23.5%)
<https://github.com/naver-ai/korean-safety-benchmarks>

G. Lima, N. Grgić-Hlača, J.K. Jeong, and **M. Cha**. Who Should Pay When Machines Cause Harm? Laypeople's Expectations of Legal Damages for Machine-Caused Harm, In *proc. of the ACM Conference on Fairness, Accountability, and Transparency (FAcT)*, June 2023. (Acceptance Rate=24.6%)
<https://doi.org/10.1145/3593013.3593992>

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.
<https://aclanthology.org/2023.eacl-main.132/>

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.
<https://aclanthology.org/2023.findings-eacl.52/>

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. (Acceptance Rate=19.2%)
<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. (Acceptance Rate=19.2%)
<https://doi.org/10.1145/3543507.3583480>

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 (CHI)*, April 2023.
<https://doi.org/10.1145/3544548.3580953>

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)*. (SCI-E, 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. (SCI-E, IF=4.15)
<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. (Acceptance Rate=25.6%)

<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. (SCI-E, IF=5.44)

<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. (Acceptance Rate=28%)

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

M.-S. Kim, S. Park, **M. Cha**, and S.-W. Effects of Child Maltreatment on Physical Activity and Sleep in Healthy Adults: A Wearable Device Use Experiment, In *Journal of the Korean Society of Biological Therapies in Psychiatry*, Vol 28, No 2, 2022.

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. (SCI-E, IF=9.235)

<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. (SSCI, 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. (SCI-E, 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. (Acceptance Rate=15%)
<https://doi.org/10.1609/aaai.v36i11.21465>
- S. Zihiria, G. Lima, J. Han, **M. Cha**, and W. Lee. QAnon Shifts Into the Mainstream, Remains a Far-Right Ally, In *Heliyon*, Vol 8, Issue 2, 2022. (SCI-E, IF=4.0)
<https://doi.org/10.1016/j.heliyon.2022.e08764>
- J. Kim, D.Y. Wohn, and **M. Cha**. Understanding and identifying the use of emotes in toxic chat on Twitch, In *Elsevier Online Social Networks and Media (OSNEM)*, Vol 27, 2022.
<https://doi.org/10.1016/j.osnem.2021.100180>
- 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. (ESCI, IF=0.84)
<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. (ESCI, IF=0.84) <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. (SCI-E, 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. (SCI-E, IF=5.08)
<https://doi.org/10.1140/epjds/s13688-021-00278-7>
- G. Lima, **M. Cha**, C. Cha, and H. Hwang. COVID-19 Vaccine Acceptance in the US and UK in the Early Phase of the Pandemic: AI-Generated Vaccines Hesitancy for Minors, and the Role of Governments, In *Journal of the Korean Data Analysis Society*, 23(3), 1045–1064, 2021. (KCI)
<https://doi.org/10.37727/jkdas.2021.23.3.1043>
- 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. (SCI-E, 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**. An 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, 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. (SCI-E, IF=7.4)
<https://doi.org/10.2196/23272>

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>

T. Yuan, M. Guan, Z. Zhou, S. Kim, **M. Cha**, D. Jin, Y. Li*. Disruption in Chinese E-Commerce during COVID-19, In *Frontiers in Computer Science*, Vol 3, 2021. (ESCI, IF=2.67)
<https://doi.org/10.3389/fcomp.2021.668711>

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. (SCI-E, 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. (ESCI, IF=2.7)
<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>

S.Y. Bae, T. Kim, Yu-i Ha, and **M. Cha**. The Medium and the Backlash: The Disparagement of the #MeToo Movement in Online Public Discourse in South Korea, In *International Journal of Communication*, 15, 768–791, January 2021. (SSCI, IF=1.28)
<https://ijoc.org/index.php/ijoc/article/view/14632/3350>

S. Park, S.W. Lee*, D. Ahn, and **M. Cha**. Designing a Mobile Intervention Platform to Help Alleviate Insomnia Symptoms in College Students, In *Journal of Korean Society of Biological Psychiatry*, 27(1), 50–58, January 2021. (KCI)
<https://www.koreamed.org/SearchBasic.php?RID=2513155>

S. Park, J.Y. Park, J.-H. Kang, and **M. Cha***. The presence of unexpected biases in online fact-checking, In *Harvard Kennedy School (HKS) Misinformation Review*, January 2020.
<https://doi.org/10.37016/mr-2020-53>

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>

Y.-Z. Hsu, S. Han, S. Park, **M. Cha**, and C.-T. Li, A Comprehensive and Adversarial Approach to Unsupervised Embedding Learning, In *proc. of the IEEE International Conference on Big Data*, December 2020. (Acceptance Rate=15.5%)
<https://doi.org/10.1109/BigData50022.2020.9377844>

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. (Acceptance Rate=25.5%)
<https://dl.acm.org/doi/10.1145/3415206>

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