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Publications

• Journals/Magazines

1. **S. Chatterjee** and A. Mukhopadhyay and M. Bhattacharyya, "Dependent Judgment Analysis: A Markov Chain based Approach for Aggregating Crowdsourced Opinions", *Information Sciences*, 396:83-96, 2017, DOI: 10.1016/j.ins.2017.01.036. (**Latest IF: 6.79**) [**SCI Indexed**]
2. **S. Chatterjee** and M. Bhattacharyya, "Judgment Analysis of Crowdsourced Opinions using Biclustering", *Information Sciences*, 375:138-154, 2017, DOI: 10.1016/j.ins.2016.09.036. (**Latest IF: 6.79**) [**SCI Indexed**]
3. **S. Chatterjee**, A. Mukhopadhyay and M. Bhattacharyya, "Constrained Crowd Judgment Analysis", *ACM SIGWEB NEWSLETTER*, Autumn, 2017.
4. **S. Chatterjee** and A. Mukhopadhyay and M. Bhattacharyya," A Weighted Rank Aggregation Approach towards Crowd Opinion Analysis", *Knowledge-based Systems*, 149:47-60, DOI: 10.1016/j.knosys.2018.02.005, 2018 (**Latest IF: 8.03**) [**SCI Indexed**].
5. **S. Chatterjee** and M. Bhattacharyya, "Scalable Human Decision Making with Crowdsourcing", *The Brunswik Society Newsletter*, 34, pp. 7-9, November, 2019 (ISSN: 2296-9926).
6. **S. Chatterjee** and A. Mukhopadhyay and M. Bhattacharyya, "A Review of Judgment Analysis Algorithms for Crowdsourced Opinions", *IEEE Transactions on Knowledge and Data Engineering*, 32(7), pp. 1234-1248, 2020 (**Latest IF: 6.79**) [**SCI Indexed**].
7. S. Mridha and B. Sarkar and **S. Chatterjee** and M. Bhattacharyya, "ViSSa: Recognizing the Appropriateness of Videos on Social Media with On-demand Crowdsourcing", *Information Processing & Management* , 2020 (**Latest IF: 6.22**) [**SCI Indexed**].
8. **S. Chatterjee** and S. Lim, "A Multi-objective Differential Evolutionary Method for Constrained Crowd Judgment Analysis." *IEEE Access* 8 (2020): 87647-87664 (**Latest IF: 3.37**) [**SCIE Indexed**].
9. N. Pasquier and **S. Chatterjee**,"Customer Choice Modelling: A Multi-Level Consensus Clustering Approach". In Annals of Emerging Technologies in Computing, 5(2):103-120, International Association for Educators and Researchers (IAER), April 2021, DOI 10.33166/AETiC.2021.02.009 [Scopus-Indexed]
10. **S. Chatterjee** and D. Chakroborty and A. Mukhopadhyay, Fuzzy association analysis for identifying climatic and socio-demographic factors impacting the spread of COVID-19, *Methods*, 2021. (**Latest IF: 3.6**) [**SCIE Indexed**].
11. **S. Chatterjee** and S. Lim, "A TOPSIS-inspired ranking method using constrained crowd opinions for urban planning." *Entropy* 24, no. 3 (2022). (**Latest IF: 2.5**) [**SCIE Indexed**].

- **Conferences/Workshops**

1. S. Choudhury and **S. Chatterjee**. "An Autoencoder-based approach for finding better Judgment from Crowd Opinions', In *THE 14th International Conference on Computing, Communication and Network Technologies* (**IEEE ICCCNT-2023)**, July 6–8, 2023. (In Press).
2. S. Das and **S. Chatterjee**. "Explainable Machine Learning for Crop Recommendation from Agriculture Sensor Data- a New Paradigm", In *THE 14th International Conference on Computing, Communication and Network Technologies* (**IEEE ICCCNT-2023)**, July 6–8, 2023. (In Press).
3. **S. Chatterjee**. "A Stack-based Ensemble Model with Explainability for Food Demand Forecasting", In *IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation* (**IATMSI-2022)**, Dec 21-23, 2022
4. M. Soe, **S. Chatterjee**, A. Mukhopadhyay. "Crowdsourcing-based Feedback Analysis on Educational Management", In *Tenth AAAI Human Computation and Crowdsourcing* (**HCOMP-2022)**, Nov 6-10, 2022. [Works-in-Progress]
5. S. Mandal, **S. Chatterjee**, A. Mukhopadhyay. "A Quantum Inspired Genetic Algorithm for Weighted Constrained Crowd Judgement Analysis", In *Tenth AAAI Human Computation and Crowdsourcing*(**HCOMP-2022)**, Nov 6-10, 2022. [Works-in-Progress]
6. **S. Chatterjee**, "An AHP-TOPSIS Integrated Model for Better Ranking in Constrained Crowd Opinions", In *Sixth International Conference on ICT for Sustainable Development* (**ICT4SD-2022)**, July 29-30, 2022.
7. **S. Chatterjee**, T. P. Singh, A. Chowdhury, A. Mukhopadhyay. "A Paradigm Shift towards Crowd-based Healthcare System", In *Ninth AAAI Human Computation and Crowdsourcing* (**HCOMP-2021)**, Nov 14-18, 2021. [Works-in-Progress]
8. **S. Chatterjee**. "A Multi-objective Clustering Ensemble Approach for Crowdsourced Clustering", In *2nd Crowd Science Workshop* co-located with 47^{th} International Conference on Very Large Data Bases (**VLDB - 2021)**, Copenhagen, Denmark, Aug 20, 2021.
9. **S. Chatterjee**, S. Lim. "A TOPSIS-based Multi-objective Model for Constrained Crowd Judgment Analysis", In *Eighth AAAI Human Computation and Crowdsourcing* (**HCOMP-2020)**, Hilversum, Netherland, October 26 - 29, 2020. [Works-in-Progress].
10. **S. Chatterjee**, N. Pasquier, "A Multi-Level Consensus Clustering Framework for Customer Choice Modelling in Travel Industry", In *Proceedings of the* 3^{rd} **(iCETiC'2020)** *International Conference on Emerging Technologies in Computing. iCETiC'2020*, London, United Kingdom, August 2020, LNICST Series, Springer International Publishing.(**Selected for Best Paper Award**)
11. **S. Chatterjee**, N. Pasquier, S. Nanty, M. A. Zuluaga. Multi-objective Consensus Clustering Framework for Flight Search Recommendation in Proceedings of the (**ICTIS'2020)** International Conference on Information and Communication Technology for Intelligent Systems, Ahmedabad, India, May 2020, Smart Innovation, Systems and Technologies series, Springer International Publishing.
12. **S. Chatterjee**, "Decision Making from Multiple Crowd Opinions" at 2^{nd} IEEE International Conference on Artificial Intelligence and Knowledge Engineering (**IEEE AIKE)**, on June 3-5, 2019 at Sardinia, Italy [Poster].
13. **S. Chatterjee**, N. Pasquier, A. Mukhopadhyay, "Multi-objective Clustering Ensemble for Varying Number of Clusters", in 10th International Workshop on Knowledge Acquisition Reuse & Evaluation (KARE 2018) at 14th International Conference on Signal and Image Processing (**IEEE SITIS 2018)**, Las Palmas, Gran Canaria, Spain, IEEE, November 27, 2018. (Accepted)
14. **S. Chatterjee**, "A Crowd-Powered Model for Identifying Negative Citations", In *SIR 2018 Workshop collocated with* 27^{th} *International Conference on Information and Knowledge Management* (**CIKM-2018)**, Turin, Italy, October 22, 2018.

15. **S. Chatterjee**, A. Mukhopadhyay and M. Bhattacharyya, "Quality Enhancement by Weighted Rank Aggregation of Crowd Opinion", In *Fifth AAAI Human Computation and Crowdsourcing* (**HCOMP-2017**), Quebec City, Canada, October 24 - 26, 2017. [Works-in-Progress].
16. S. Mridha, B. Sarkar, **S. Chatterjee** and M. Bhattacharyya, "Identifying Unsafe Videos on Online Public Media using Real-time Crowdsourcing", In *Fifth AAAI Human Computation and Crowdsourcing* (**HCOMP-2017**), Quebec City, Canada, October 24 - 26, 2017. [Works-in-Progress].
17. **S. Chatterjee** and M. Bhattacharyya, "A Probabilistic Approach to Group Decision Making", In *Proceedings of the* 36^{th} *ACM SIGCHI Conference on Human Factors in Computing System* (**CHI Extended Abstracts**), Denver, USA, May 6-11, ACM Press, 2017 [**Top-most conference, Acceptance rate: 20%**].
18. **S. Chatterjee**, A. Mukhopadhyay and M. Bhattacharyya, "Judgment Analysis based on Crowdsourced Opinions", In *Proceedings of* 33^{rd} *IEEE International Conference on Data Engineering* **(ICDE 2017)** at California, USA on April 19-22, 2017. [**Top-most conference, Average Acceptance rate: 18.6%**]
19. **S. Chatterjee**, A. Mukhopadhyay and M. Bhattacharyya, "Smart City Planning with Constrained Crowd Judgment Analysis", In *Proceedings of the AAAI 2017 Spring Symposium on AI for Social Good* (**AISOC**), Palo Alto, USA, March 27-29, SS-17, AAAI Press, 2017.
20. **S. Chatterjee** and A. Mukhopadhyay, "Genetic Algorithm-based Matrix Factorization for Missing Value Prediction", In *Proceedings of the* 1^{st} *International Conference on Computational Intelligence, Communications, and Business Analytics* (**CICBA 2017**), Kolkata, India, March 24-25, Springer CCIS, 2017. (**Selected for Best Paper Award from Springer**)
21. A. Dash, **S. Chatterjee**, T. Prasad and M. Bhattacharyya, "Image Clustering without Ground Truth", In *GroupSight Workshop collocated with the Fourth AAAI Human Computation and Crowdsourcing* (**HCOMP-2016**), Austin, USA, November 03, 2016. [Cited by: 1]
22. **S. Chatterjee**, E. Kundu and A. Mukhopadhyay, "A Markov Chain based Ensemble Method for Crowdsourced Clustering", In *Fourth AAAI Conference on Human Computation and Crowdsourcing* (**HCOMP-2016**), Austin, USA, October 31 - November 02, 2016. [Works-in-Progress] [Cited by: 1]
23. **S. Chatterjee**, A. Mukhopadhyay and M. Bhattacharyya, "Consensus of Dependent Opinions", In *Fourth AAAI Conference on Human Computation and Crowdsourcing* (**HCOMP-2016**), Austin, USA, October 31 - November 02, 2016. [Works-in-Progress] [Cited by: 1]
24. **S. Chatterjee** and M. Bhattacharyya, "A Biclustering Approach for Crowd Judgment Analysis", In *Proceedings of the* 2^{nd} *ACM IKDD Conference on Data Sciences* (**CoDS 2015**), Bangalore, India, March 18-21, pp. 118-119, ACM Press, 2015 [Poster] [**Acceptance rate: 39.5%**] [Cited by: 1].
25. **S. Chatterjee** and A. Mukhopadhyay, "Clustering Ensemble: A Multiobjective Genetic Algorithm based Approach", In *First International Conference on Computational Intelligence: Modeling, Techniques and Applications* **(CIMTA-2013)**, Procedia Technology, Vol. 10, pp. 443-449, Elsevier, Kalyani, India, September 2013 [Cited by: 10].

- **Edited Books**

1. **S. Chatterjee**, T. P. Singh, S. Lim, A. Mukhopadhyay, "Social Media and Crowdsourcing: Application and Analytics, In *Advances in collective Computational Intelligence", CRC Press, Taylor and Francis*, December, 2023 [In Press].

- ## Peer-Reviewed Book Chapters

1. **S. Chatterjee**, A. Mukhopadhyay, "An Evolutionary Matrix Factorization Approach for Missing Value Prediction", J. K. Mandal, S. Mukhopadhyay and P. Dutta (Eds.), In *Advances in Intelligent Computing of series entitled "Studies of Computational Intelligence", Springer Nature*, 2018 [Appeared in the *International Conference on Computational Intelligence, Communications, and Business Analytics* (**CICBA 2017**), Kolkata, India, March 24-25, Springer Nature, 2017].
2. **S. Chatterjee**, S. K. Mridha, S. Bhattacharyya, S. Shakhari and M. Bhattacharyya, "Dynamic Congestion Analysis for Better Traffic Management using Social Media", S. Das and S. C. Satapathy (Eds.), In *Springer Smart Innovation, Systems and Technologies* 51, Vol. 2, Chapter 09, pp. 85-95, 2016, DOI: 10.1007/978-3-319-30927-9_9 (ISBN: 978-3-319-30926-2), 2016 [Appeared in the *International Conference on ICT for Intelligent Systems* (**ICTIS**), Ahmedabad, India, November 28-29, 2015].

- ## Doctoral Consortium

1. **S. Chatterjee**, "Judgment Analysis based on Crowdsourced Opinions", In *PhD Symposium in* 33^{rd} *IEEE International Conference on Data Engineering* **(ICDE 2017)** at California, USA on April 19-22, 2017 [Oral and Poster] (**(Only 4 students were selected for presentations)**).
2. **S. Chatterjee**, "Dependent Judgment Analysis based on Crowdsourced Opinions", In *Graduate Research Workshop in* 4^{th} *ACM IKDD Conference on Data Sciences* **(CoDs-2017)** at IIT Madras, India on March 9-11, 2017 [Poster].

- ## Graduating Bits

1. **S. Chatterjee**, "Judgment Analysis based on Crowdsourced Opinions", In *Graduating bits of* 13^{th} *Web and Internet Economics* **(WINE 2017)** at Indian Institute of Science, Bangalore, India on December 17-20, 2017 [Lightning Talk and Poster].

* Manuscript under Revision/Preparation

1. A. Dash, **S. Chatterjee**, T. Prasad and M. Bhattacharyya, "Crowdsourced Clustering", (*Submitted in IEEE Transactions on Knowledge and Data Engineering*).
2. **S. Chatterjee** and A. Mukhopadhyay and M. Bhattacharyya, Multi-objective Formulation of Constrained Crowd Judgment Analysis (*Under final stage*).
3. **S. Chatterjee** and A. Mukhopadhyay and M. Bhattacharyya, A Markov Chain based Clustering Ensemble method (*Under final stage*).