

(Updated on 22nd July 2021, The papers are listed roughly in reverse chronological order)

List of Papers in Journals and International Conferences

1. Ashika Sharma, Jaikishan Jayakumar, Namrata Sankaran, Partha P. Mitra, Sutanu Chakraborti, P. Sreenivasa Kumar, ConnExt-BioBERT: Leveraging Transfer Learning for Brain-Connectivity Extraction from Neuroscience Articles, accepted for publication in Brain Informatics Conference, 2021
2. Ashika Sharma, Jaikishan Jayakumar, Partha Mitra, Sutanu Chakraborti, P Sreenivasa Kumar, Application of Supervised Machine Learning to Extract Brain Connectivity Information from Neuroscience Research Articles, Interdisciplinary Sciences: Computational Life Sciences, 2021 (accepted in the journal, yet to be published)
3. Srashti Kaurav, Devi Ganesan, Deepak P and Sutanu Chakraborti, Revisiting Fast and Slow Thinking in Case-Based Reasoning, accepted in the International Conference on Case-Based Reasoning (ICCBR), 2021
4. S. Renganathan, Devi Ganesan, Deepak P and Sutanu Chakraborti, Towards Richer Holographic CBR Realizations, accepted in the International Conference on Case-Based Reasoning (ICCBR), 2021
5. Srashti Kaurav, Devi Ganesan, Deepak P and Sutanu Chakraborti: Thinking Fast and Slow: A CBR Perspective. The Florida Artificial Intelligence Research Society (Flairs) Conference, 2021 (accepted for oral presentation)
6. Devi Ganesan and Sutanu Chakraborti. Holographic Case-Based Reasoning, In International Conference on Case-Based Reasoning (ICCBR), 2020: 144-159.
7. Ditty Mathew, Sutanu Chakraborti: An Optimal Case-Base Maintenance Method for Compositional Adaptation Applications. International Conference on Case-Based Reasoning (ICCBR) 2019: 297-313
8. Anbarasu Sekar, Sutanu Chakraborti: Show Me Your Friends, I'll Tell You Who You Are: Recommending Products Based on Hidden Evidence. International Conference on Case-Based Reasoning (ICCBR) 2019: 329-342
9. Devi Ganesan, Sutanu Chakraborti: A Reachability-Based Complexity Measure for Case-Based Reasoners. Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS) 2019: 341-346
10. Devi Ganesan and Sutanu Chakraborti: A Reachability-Based Complexity Measure for Case-Based Reasoners, Proceedings of the UKCBR Workshop 2018, with journal publication in British Computer Society journal Expert Update: Summer 2019 (Vol. 19, No. 1), pp. 1-10
11. Aakash Srinivasan, Harshavardhan Kamarthi, Devi Ganesan and Sutanu Chakraborti: Integrating Lexical Knowledge in Word Embeddings using Sprinkling and Retrofitting. Proceedings of the International Conference on Natural Language Processing (ICON) 2019, pp. 115-123
12. Ditty Mathew, Sutanu Chakraborti: Towards Compiling Textbooks from Wikipedia. Australasian Joint Conference on Artificial Intelligence 2018: 828-842
13. Devi Ganesan, Sutanu Chakraborti: An Empirical Study of Knowledge Tradeoffs in Case-Based Reasoning. International Joint Conference on Artificial Intelligence (IJCAI) 2018: 1817-1823
14. Ditty Mathew, Sutanu Chakraborti: An Optimal Footprint Method for Case-Base Maintenance. Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS) 2018: 383-388

15. Anbarasu Sekar, Devi Ganesan and Sutanu Chakraborti: Why did Naethan pick Android over Apple?: Exploiting Trade-offs in Learning User Preferences. International Conference on Case-Based Reasoning (ICCBR) 2018: 354-368
16. Anbarasu Sekar and Sutanu Chakraborti: Towards bridging the gap between manufacturer and users to facilitate better recommendation. Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS) 2018: 468-473
17. Ditty Mathew, Girish Raguvir Jeyakumar, Rahul Kejriwal, Sutanu Chakraborti: Towards Predicting Age of Acquisition of Words Using a Dictionary Network. International Conference on Natural Language Processing (ICON) 2018: 206-214
18. Neha Dubey, Sutanu Chakraborti and Deepak Khemani: Content Selection for Time Series Summarization using Case-Based Reasoning. Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS) 2018: 395-398
19. Ditty Mathew, Sutanu Chakraborti: Competence Guided Model for Casebase Maintenance. International Joint Conference on Artificial Intelligence (IJCAI) 2017: 4904-4908 (Sister Conference Best Paper Track)
20. Ditty Mathew, Sutanu Chakraborti: A Generalized Case Competence Model for Casebase Maintenance. AI Communications Volume 30 (3-4), 295-309, July 2017
21. Swapnil Hingmire, Sutanu Chakraborti, Girish K. Palshikar and Abhay Sodani: WikiLDA: Towards a More Effective Knowledge Acquisition in Topic Models using Wikipedia. K-CAP 2017: 37:1-37:4
22. Shashank Shrivastava, Mitesh M. Khapra, Sutanu Chakraborti: A Concept Driven Graph Based Approach for Estimating the Focus Time of a Document. International Conference on Mining Intelligence and Knowledge Extraction (MIKE) 2017: 250-260
23. Sahiti Labhishetty, Ayesha Siddiqua, Rajivteja Nagipogu, Sutanu Chakraborti: WikiSeeAlso: Suggesting Tangentially Related Concepts (See also links) for Wikipedia Articles. International Conference on Mining Intelligence and Knowledge Extraction (MIKE) 2017: 274-286
24. K. V. S. Dileep, Swapnil Hingmire, Sutanu Chakraborti: Complexity Guided Noise Filtering in QA Repositories. Proceedings of Florida Artificial Intelligence Research Society Conference (FLAIRS) 2017: 186-189
25. Siddiqua, A. V. Tendulkar, and S. Chakraborti: WikiAug: Augmenting Wikipedia Stubs by suggesting credible hyperlinks. Journal of Research in Computing Science derived from the CICLing-2017 conference.
26. G. Devi, Charu Chauhan, Sutanu Chakraborti: Conceptualizing Curse of Dimensionality with Parallel Coordinates. AAAI 2016: 4075-4081 (Proceedings of the EAAI Symposium)
27. Ditty Mathew, Sutanu Chakraborti, Competence Guided Casebase Maintenance for Compositional Adaptation Applications. International Conference on Case-Based Reasoning (ICCBR) 2016: 265-280 (**won Best Student Paper Award**)
28. K.V.S. Dileep, Sutanu Chakraborti Eager to be Lazy: Towards a Complexity-guided Textual Case-Based Reasoning System. International Conference on Case-Based Reasoning (ICCBR) 2016: 77-92
29. Ashika Sharma, Ankit Sharma, Dipti Deodhare, Sutanu Chakraborti, P. Sreenivasa Kumar, and P. Partha Mitra: Case Representation and Retrieval Techniques for Neuroanatomical Connectivity Extraction from PubMed. International Conference on Case-Based Reasoning (ICCBR) 2016: 370-386
30. S. Chandra Mouli, Sutanu Chakraborti: Making the Most of Preference Feedback by Modeling Feature Dependencies. RecSys 2015: 285-288
31. Eshwar Chandrasekharan, Sutanu Chakraborti: Footprints on Silicon: Explorations in Gathering Autobiographical Content. International Journal of Computational Linguistics Appl. 6(2): 29-42 (2015) derived from the CICLing-2015 conference

32. Nitin Gupta, Sukhendu Das, and Sutanu Chakraborti: Extracting Information from a Query Image, for Content Based Image Retrieval. ICAPR-2015: 1-6
33. Abhijit Sahoo, Swapnil Hingmire, and Sutanu Chakraborti: Adapting PageRank to Position Events in Time. International Conference on Mining Intelligence and Knowledge Extraction (MIKE) 2015: 536-542
34. Shubhranshu Shekhar, Sutanu Chakraborti and Deepak Khemani: Spreading Activation Way of Knowledge Integration. International Conference on Mining Intelligence and Knowledge Extraction (MIKE) 2015: 1-11
35. K.V.S. Dileep, Sutanu Chakraborti: Estimating Case Base Complexity Using Fractal Dimension. International Conference on Case-Based Reasoning (ICCBR) 2014: 230-244
36. Swapnil Hingmire and Sutanu Chakraborti: Topic Labeled Text Classification: A Weakly Supervised Approach. SIGIR 2014: 385-394.
37. Shubhranshu Shekhar, Sutanu Chakraborti and Deepak Khemani: Linking Cases Up: An extension to Case Retrieval Network. International Conference on Case-Based Reasoning (ICCBR) 2014: 450-464
38. Pranay Kumar Venkata Sowdaboina, Sutanu Chakraborti and Sripada Somayajulu G: Learning to summarize time series data. In Proceedings of CICLing 2014, Springer (with journal publication option)
39. Nitin Gupta, Sukhendu Das, and Sutanu Chakraborti: Hierarchy of Visual Features for Object Recognition. ICIP 2014: 5901-5905
40. Swapnil Hingmire and Sutanu Chakraborti: Sprinkling Topics for Weakly Supervised Text Classification. Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics, ACL 2014, June 22-27, 2014, Baltimore, MD, USA, Volume 2: Short Papers, Pages 55-60)
41. Skanda Raj Vasudevan, Sutanu Chakraborti: Enriching Case Descriptions Using Trails in Conversational Recommenders. ICCBR 2014: 480-494
42. Swapnil Hingmire, Sandeep Chougule, Girish K. Palshikar and Sutanu Chakraborti: Document Classification by Topic Labeling. The 36th International ACM SIGIR conference on research and development in Information Retrieval, SIGIR '13, Dublin, Ireland - July 28 - August 01, 2013, SIGIR 2013, Pages 877-880.
43. Deepak P, Sutanu Chakraborti, Deepak Khemani: Query Suggestions for Textual Problem Solution Repositories, Proc. of the 35th European Conference on Information Retrieval Research (ECIR 2013), Moscow, Russia, March 2013, pp. 569-581
44. Saurabh Gupta, Sutanu Chakraborti: Flexible and Dynamic Compromises for Effective Recommendations, CIKM 2013: 1909-1912.
45. Debarun Kar, Anand Kumar, Sutanu Chakraborti and Balaraman Ravindran: iCaseViz: Learning Case Similarities through Interaction with a Case Base Visualizer. ICCBR 2013: 203-217, Springer.
46. Saurabh Gupta, Sutanu Chakraborti: UtilSim: Iteratively Helping Users Discover their Preferences, Proceedings of the 14th International Conference on Electronic Commerce and Web Technologies - ECWeb 2013, LNBIP 152, pp. 113-124, Prague, Czech Republic, August 26 - 30, 2013.
47. Bibekananda Kundu, Sutanu Chakraborti and Sanjay Kumar Choudhury: Complexity Guided Active Learning for Bangla Grammar Correction, Accepted as full paper in International Conference on Natural Language Processing (ICON) 2013
48. Debarun Kar, Sutanu Chakraborti and Balaraman Ravindran: Feature Weighting and Confidence based Prediction for Case Based Reasoning Systems. In Proceedings of ICCBR 2012 : 211-225

49. Bibekananda Kundu, Sutanu Chakraborti, Sanjay Kumar Choudhury: Combining Confidence Score and Mal-rule Filters for Automatic Creation of Bangla Error Corpus: Grammar Checker Perspective. *CICLing* (2) 2012: 462-477, Springer (journal publication option)
50. Deepak P, Sutanu Chakraborti: Finding Relevant Tweets, in the Proc. of the 13th International Conference on Web-Age Information Management (WAIM 2012), Harbin, China, August 2012, pp. 228-240
51. Deepak P, Sutanu Chakraborti, Deepak Khemani: More or better: on trade-offs in compacting textual problem solution repositories, in the Proc. of the 20th ACM International Conference on Information and Knowledge Management (CIKM 2011), Glasgow, Scotland, UK, October 2011, pp. 2321-2324
52. Anil Patelia, Sutanu Chakraborti and Nirmalie Wiratunga: Selective Integration of Background knowledge in TCBR systems, In Proceedings of the 19th International Conference on Case-Based Reasoning (ICCBR) 2011: pp 196-210.
53. Bibekananda Kundu, Sutanu Chakraborti, Sanjay Kumar Choudhury: NLG Approach for Bangla Grammatical Error Correction. In Proceeding of 9th International Conference of Natural Language Processing (ICON) 2011, Macmillan Publisher, pp. 225-230
54. Vasanth K. Rajendran, Sutanu Chakraborti, Stewart Massie: Modelling Documents as Cases: A CBR Perspective to IR, Proceedings of the 14th UKCBR Workshop Cambridge (co-hosted with BCS AI conference). 2009, with journal publication in British Computer Society journal Expert Update: Summer 2011 (Vol. 11, No. 2), pp. 50-61
55. Karthik Jayanthi, Sutanu Chakraborti, Stewart Massie: Introspective Knowledge Revision in Textual Case-Based Reasoning. ICCBR 2010: 171-185 (Shortlisted for Best Paper Award – adjudged one of the top 6 papers in the conference)
56. Anil Patelia, Sutanu Chakraborti and Nirmalie Wiratunga: On the Integration of Background Knowledge in TCBR systems. In Proceedings of the 13th UK Workshop on Case-Based Reasoning; CMS Press, Greenwich; 2010: pp 45-54, with journal publication in British Computer Society journal Expert Update: Spring 2012 (Vol. 12, No. 1), pp. 50-61
57. M. A. Raghunandan, Sutanu Chakraborti, Deepak Khemani: Robust Measures of Complexity in TCBR. ICCBR 2009: 270-284
58. M. A. Raghunandan, Nirmalie Wiratunga, Sutanu Chakraborti, Stewart Massie, Deepak Khemani: Evaluation Measures for TCBR Systems. ECCBR 2008: 444-458
59. Chakraborti, S., Beresi, U. C., Wiratunga, N., Massie, S., Lothian, R., Khemani, D., Visualizing and evaluating complexity of textual case bases, Procs. Of ECCBR 2008, pp. 444-458
60. Chakraborti, S., Mukras, R., Lothian, R., Wiratunga, N., Watt, S., & Harper, D. (2007). Supervised Latent Semantic Indexing using Adaptive Sprinkling. Proc. of the Twentieth IJCAI Conference , pp. 1582-7, AAAI Press
61. Chakraborti, S., Wiratunga, N., Lothian, R., & Watt, S.: Fast Case Retrieval Nets for Textual CBR. Procs. of the 10th UK CBR Workshop. Cambridge, 2005, with journal publication in British Computer Society journal Expert Update: Spring 2007 (Vol. 9, No. 2), pp. 10-17
62. Chakraborti, S., Wiratunga, N., Lothian, R., & Watt, S. (2007): Acquiring Word Similarities with Higher Order Association Mining. Proc. of the 7th International CBR Conference (ICCBR'07). pp. 61-76, Springer.
63. Chakraborti, S., Lothian, R., Wiratunga, N., & Watt, S. (2006): Sprinkling: Supervised Latent Semantic Indexing. Proc. of 28th European Conf. on Information Retrieval (ECIR), pp. 510-515, Springer.
64. Chakraborti, S., Lothian, R., Wiratunga, N., Orecchioni, A., & Watt, S. (2006): Fast Case Retrieval Nets for Textual Data. Proc. of the 8th European Conference on Case-Based Reasoning (ECCBR-06), pp. 400-414, Springer.

65. Chakraborti, S., Watt, S., & Wiratunga, N.: Introspective Knowledge Acquisition in Case Retrieval Networks for Textual CBR. Proc. of the 9th UK CBR Workshop, Cambridge, 2004, with journal publication of expanded version in British Computer Society journal Expert Update: Spring 2006 (Vol. 8, No. 3), pp. 2-8
66. Wiratunga, N., Lothian, R., Chakraborti, S., & Koychev, I. (2005): A Propositional Approach to Textual Case Indexing. Proc. of The PKDD Conference, pp. 380-391, Springer.
67. Balaraman, V., Chakraborti, S. (2004): Satisfying varying Retrieval Requirements in Case-based Intelligent Directory Assistance, Proc. of FLAIRS, 2004, AAAI Press.
68. Chakraborti, S., Ambati, S., Balaraman, V. & Khemani, D. (2003): Integrating Knowledge Sources and Acquiring Vocabulary for Textual CBR. Proc. of the 8th UK Workshop on CBR, (pp. 74-84) Cambridge. (with journal publication in British Computer Society journal Expert Update)

List of Workshop Papers

1. Neha Dubey, Sutanu Chakraborti and Deepak Khemani: Textual Summarization of Time Series using Case-Based Reasoning: A Case Study. In Workshop Proceedings of the 26th International Conference on Case-Based Reasoning, ICCBR 2018, Stockholm, Sweden. July 09-12 2018, pp. 164-174.
2. Ashika, Dipti Deodhare, Jaikishan Jayakumar, Sutanu Chakraborti, P Sreenivasa Kumar, Partha Mitra: ConnExt: Tool for Brain Region Connectivity Extraction from Neuroscience research articles. In Computational Brain Research Workshop, IIT Madras, 2018 (Poster presentation)
3. Devi Ganesan, Ashish V. Tendulkar, Sutanu Chakraborti: Protein Word Detection using Text Segmentation Techniques. BioNLP Workshop 2017: 238-246
4. Anbarasu Sekar and Sutanu Chakraborti: Learning a region of user's preference for product recommendation. Workshop on Synergies between CBR and Knowledge Discovery of the 24th International Conference on Case-Based Reasoning (ICCBR) 2016, 1815, 212-221
5. Ditty Mathew, Dhivya Eswaran, Sutanu Chakraborti: Towards Creating Pedagogic Views from Encyclopedic Resources. In the proceedings of the Tenth Workshop on Innovative Use of NLP for Building Educational Applications, collocated with NAACL 2015, Denver, USA
6. Ashika, Jaikishan Jaykumar, Sutanu Chakraborti, Ankit Sharma, P. Sreenivasa Kumar, Dipti Deodhare, and P. Partha Mitra: A novel method for extracting connectivity information from neuroscience text articles. In Neuroscience 2016, San Diego, 12 - 16 Nov 2016 (Poster presentation)
7. Ashika, Sutanu Chakraborti, Dipti Deodhare, P. Sreenivasa Kumar, and P. Partha Mitra, Ankit Sharma: Relation Extraction from Neuroscience Articles in PubMed. In the First Annual Workshop on Computational Brain Research, IIT Madras, 2016 (Poster presentation)
8. Skanda Raj, Sutanu Chakraborti: Mining User Trails in Critiquing Based Recommenders. In the Proceedings of the 5th Workshop on Social Recommender Systems (SRS 2014), co-hosted with WWW 2014, pp. 777-780
9. Saurabh Gupta, Sutanu Chakraborti: Evaluating Conversational Recommender Systems based on Preference Based Feedback. BARS 2013: Workshop on Bench-marking Adaptive Retrieval and Recommender Systems. In conjunction with ACM SIGIR, pp. 14-17, Dublin, Ireland, August 1, 2013.
10. Bhautik Patel, Ashish V Tendulkar and Sutanu Chakraborti: Towards Selective User Specific Query Expansion. In Proceedings of the 1st workshop on User engagement optimization. ACM, San Francisco, CA, USA, 2013, pp. 21-24
11. Ashish Vijay Tendulkar, Sutanu Chakraborti: Parallels between Linguistics and Biology, In BioNLP@ACL 2013: 120-123
12. Nishaanth Shanmugasundaram, Sutanu Chakraborti: Question Routing in Collaborative Question

- Answering Systems, accepted in the Workshop of Case Based Reasoning in Social Web Applications (a workshop of ICCBR 2013)
13. KVS Dileep, Sutanu Chakraborti: Towards Higher Order Complexity Measures for Text Classification, 1st Indian Workshop on Machine Learning, IIT Kanpur, 2013
 14. Swapnil Hingmire, Sandeep Chougule, Girish K. Palshikar and SutanuChakraborti. Almost Unsupervised Document Content Filtering using Topic Models, Proceedings of the Workshop on Analytics for Noisy Unstructured Text Data (AND 2012), 24th International Conference on Computational Linguistics (COLING 2012), 8 - 15 Dec., 2012, Mumbai, India
 15. Sutanu Chakraborti: Memory Based Reasoning: A Dynamical Systems Perspective, Proceedings of the Workshop on Uncertainty, Knowledge Discovery and Similarity in CBR, Seattle (2009), pp. 163-170
 16. Mukras, R., Wiratunga, N., Lothian, R., Chakraborti, S., & Harper, D. (2007): Information Gain Feature Selection for Ordinal Text Classification using Probability Re-distribution. Proc. of IJCAI Textlink Workshop.
 17. Orecchioni, A., Wiratunga, N., Massie, S., Chakraborti, S., & Mukras, R. (2007): Learning Incident Causes. Proc. of the TCBR Workshop 2007 (ICCBR), Belfast, pp. 247—251
 18. Chakraborti, S., Beresi, U., Wiratunga, N., Massie, S., Lothian, R., & Watt, S. (2007). A Simple Approach towards Visualizing and Evaluating Complexity of Textual Case Bases. In Proc. of the fourth workshop on Textual Case Based Reasoning (ICCBR 07)
 19. Wiratunga, N., Lothian, R., Chakraborti, S., & Koychev, I. (2005): Textual feature construction from keywords. Weber, R and Branting, LK (eds) Proceedings of the Textual Case-Based Reasoning Workshop (ICCBR), Chicago, pp. 110-119

List of Papers in Indian Conferences

1. Nitin Gupta, Sukhendu Das, and Sutanu Chakraborti: Revealing what to extract from where, for object-centric content based image retrieval (CBIR), Proceedings of the 2014 Indian Conference on Computer Vision Graphics and Image Processing, pp. 1-8
2. Balaraman, V., Chakraborti, S., Vattam, S., Using CBR Inexact Search for Intelligent Retrieval of Data, Procs. of KBCS, 2000, pp. 119-130

Book Chapter:

Natural Language Processing, in A First Course in Artificial Intelligence, by Prof. Deepak Khemani (released 2013)

Theses

Chakraborti, S. (2007). Introspective Knowledge Acquisition in Case Retrieval Networks for Textual Case-Based Reasoning, PhD Thesis, The Robert Gordon University

Chakraborti, S. (2004). Integration of Knowledge Sources in Textual Case Based Reasoning, M.S. (Research) Thesis, Indian Institute of Technology, Madras

