LING 506: Affective Computing

Syllabus, Fall 2020

!!The following syllabus is tentative and subject to change.!!

Starting Week 5 (9/14), the class will meet on Mondays for paper presentations and discussion. Thursdays will be allocated for project discussions, scheduled in advance.

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| **Week** | **Readings** | **Presenters** | **Announcements** |
| Part I. *Introduction to Affective Computing* | | | |
| Week 1  (8/24;  8/26) | Course introduction (Course-Intro.ppt)  Lecture1. Introduction to Affective Computing (I) | Roxana |  |
| Weeks 2-3  (8/31; 9/2;  ~~9/7~~; 9/9) | Lecture 2. Introduction to Affective Computing (II) | Roxana |  |
| Week 4  (9/14 - 16) | No classes this week (instructor is participating in a panel)  (students will prepare for their paper presentations, reports, and think of potential project ideas) | | |
| Part II. *Emotions: Corpora, Lexicons, and Int’l Competitions* | | | |
| Week 5  (9/21 - 23) | Acheampong, Wenyu, and Nunoo-Mensah. [Text-based emotion detection: Advances, challenges, and opportunities.](https://onlinelibrary.wiley.com/doi/epdf/10.1002/eng2.12189)  Engineering Reports. 2020;  wileyonlinelibrary.com/journal/eng2  A. Bostan and R. Klinger.  [An Analysis of Annotated Corpora for Emotion Classification in Text](https://www.aclweb.org/anthology/C18-1179.pdf). In the Proceedings of the 27th International Conference on Computational Linguistics, pages 2104–2119, Santa Fe, New Mexico, USA, August 20-26, 2018. | Raghava  Yanchen |  |
| Weeks 6  (9/28 – 30) | S. Mohammad, F. Bravo-Marquez, M. Salameh, S. Kiritchenko. [SemEval-2018 Task 1: Affect in Tweets](https://www.aclweb.org/anthology/S18-1001.pdf).  In the Proceedings of the 12th International Workshop on Semantic Evaluation (SemEval) 2018. ©2018 Association for Computational Linguistics  E. Saravia, H. Liu, Y. Huang, J. Wu Y. Chen.  [CARER: Contextualized Affect Representations for Emotion Recognition](https://www.aclweb.org/anthology/D18-1404.pdf).  In the Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing, pages 3687–3697, Brussels, Belgium, October 31 - November 4, 2018. ©2018 Association for Computational Linguistics | Arjun  Atharva |  |
| Weeks 7  (10/5 – 7) | A. Chatterjee, K. Narahari, M. Joshi and P. Agrawal.  [SemEval-2019 Task 3: EmoContext Contextual Emotion Detection in Text](https://www.aclweb.org/anthology/S19-2005.pdf).  In Proceedings of the 13th International Workshop on Semantic Evaluation (SemEval-2019), pages 39–48, Minneapolis, Minnesota, USA, June 6–7, 2019. ©2019 Association for Computational Linguistics  H. Fei, Y. Zhang, Y. Ren, D. Ji.  Latent Emotion Memory for Multi-Label Emotion Classification.  In the Proceedings of the The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20), 2020. (see Research Papers folder) | Apratim  Atharva |  |
| Part III. *Emotions in Social Media* | | | |
| Week 8  (10/12 – 14) | D. Preot ̧iuc-Pietro, M. Gaman, and N. Aletras. [Automatically Identifying Complaints in Social Media](https://www.aclweb.org/anthology/P19-1495.pdf). In the Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, pages 5008–5019, 2019.c©2019 Association for Computational Linguistics.  S. Volkova and Y. Bachrach. [Inferring Perceived Demographics from User Emotional Tone and User-Environment Emotional Contrast](https://www.aclweb.org/anthology/P16-1148.pdf). In the Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics, pages 1567–1578, 2016.c©2016 Association for Computational Linguistics | Sofya  Apratim | Project Proposals (due) |
| Week 9  (10/19;  10/21) | K. Byron. [Carrying Too Heavy A Load? The Communication and Miscommunication of Emotion by Email](https://www.researchgate.net/profile/Kris_Byron/publication/252671620_Carrying_too_Heavy_a_Load_The_Communication_and_Miscommunication_of_Emotion_by_Email/links/5523e05c0cf2c815e0735d66/Carrying-too-Heavy-a-Load-The-Communication-and-Miscommunication-of-Emotion-by-Email.pdf). In Academy of Management Review, 2008, Vol. 33, No. 2, 309–327.  H. Blunden and A. Brodsky (2020). Beyond the Emoticon: Are There Unintentional Cues of Emotion in Email? Personality and Social Psychology Bulletin, July 2020, 1 –15. (see Research Papers folder) | Vishal  Yanchen |  |
| Week 10  (10/26; 10/28) | S. Kiritchenko, W. Hipson, R. Coplan, S. Mohammad.  [SOLO: A Corpus of Tweets for Examining the State of Being Alone](https://www.aclweb.org/anthology/2020.lrec-1.195.pdf). In Proceedings of the 12th Conference on Language Resources and Evaluation (LREC 2020), pages 1567–1577, Marseille, 11–16 May 2020.  M. Wojatzki, T. Zesch, M. Mohammad, S. Kiritchenko.  [Agree or Disagree: Predicting Judgments on Nuanced Assertions.](https://www.aclweb.org/anthology/S18-2026.pdf) In Proceedings of the 7th Joint Conference on Lexical and Computational Semantics (\*SEM), 2018, pages 214–224, New Orleans, June 5-6, 2018. ©2018 Association for Computational Linguistics. | Raghava  Jay |  |
| Week 11  (11/2;  11/4) | Vian Bakir & Andrew McStay (2018) Fake News and The Economy of Emotions, Digital Journalism, 6:2, 154-175, DOI: 10.1080/21670811.2017.1345645 (see Research Papers folder)  P. Przybyła.  [Capturing the Style of Fake News](file://localhost/Users/girju/Downloads/5386-Article%20Text-8611-1-10-20200511.pdf). In the Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20), 2020. | Jay  Vishal |  |
| Part IV. *Emotions, Deception, Figurative Language and Storytelling* | | | |
| Week 12  (11/9;  11/11) | B. Felbo, A. Mislove, A. Søgaard, I. Rahwan, S. Lehmann.  [Using millions of emoji occurrences to learn any-domain representations for detecting sentiment, emotion and sarcasm.](https://www.aclweb.org/anthology/D17-1169.pdf) Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing, pages 1615–1625, .c©2017 Association for Computational Linguistics  A. Kasunic and G. Kaufman.  [Learning to Listen: Critically Considering the Role of AI in Human Storytelling and Character Creation](https://www.aclweb.org/anthology/W18-1501.pdf). In Proceedings of the 1st Workshop on Storytelling, pages 1–13New Orleans, Louisiana, June 5, 2018.c©2018 Association for Computational Linguistics | Jacob  Yuerong |  |
| Week 13  (11/16;  11/18) | Samira Zad and Mark Finlayson.  [Systematic Evaluation of a Framework for Unsupervised Emotion Recognition for Narrative Text](https://www.aclweb.org/anthology/2020.nuse-1.4.pdf). In Proceedings of the First Joint Workshop on Narrative Understanding, Storylines, and Events, July 2020. ©2020 Association for Computational Linguistics  S. Somasundaran, X. Chen, and M. Flor.  [Emotion Arcs of Student Narratives](https://www.aclweb.org/anthology/2020.nuse-1.12.pdf). In Proceedings of the First Joint Workshop on Narrative Understanding, Storylines, and Events, July 2020. ©2020 Association for Computational Linguistics | Yuerong  Sofya |  |
| Week 14  (11/21 –  11/29) | **Thanksgiving Break** | | |
| Part V. *Applications: Empathy* | | | |
| Week 15  (11/30;  12/2) | V. Perez-Rosas, R. Mihalcea, K. Resnicow, S. Singh, and L. An.  [Understanding and Predicting Empathic Behavior in Counseling Therapy](https://www.aclweb.org/anthology/P17-1131.pdf). In Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (ACL), pages 1426–1435, Vancouver, Canada, July 30 - August 4, 2017. ©2917 Association for Computational Linguistics.  S. Buechel, A. Buffone, B. Slaff, L. Ungar, and J. Sedoc. [Modeling Empathy and Distress in Reaction to News Stories](https://arxiv.org/pdf/1808.10399.pdf). In  Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing, pages 4758–4765, Brussels, Belgium, October 31 - November 4, 2018. ©2018 Association for Computational Linguistics. | Daniel  Arjun |  |
| Week 16  (12/7) | J. Sedoc, S. Buechel, Y. Nachmany, A. Buffone, and L. Ungar.  [Learning Word Ratings for Empathy and Distress from Document-Level User Responses](https://www.aclweb.org/anthology/2020.lrec-1.206.pdf). In Proceedings of the 12th Conference on Language Resources and Evaluation (LREC 2020), pages 1664–1673.  M. Litvak et al.  [Social and Linguistic Behavior and its Correlation to Trait Empathy](https://www.aclweb.org/anthology/W16-4314.pdf). In Proceedings of the Workshop on Computational Modeling of People’s Opinions, Personality, and Emotions in Social Media, pages 128–137, Osaka, Japan, December 12 2016. | Jacob  Daniel |  |
| Finals week (12/11 – 18) |  |  | Term Projects (due) |