

## AI + Accessibility

**1:** *e-HAIL: Making the University of Michigan a premier hub for e-health and AI to improve health using technology.* Henrike Florusbosch (University of Michigan), Akbar Waljee (University of Michigan Medical School), Rada Mihalcea (University of Michigan)

**2:** *Understanding Emerging Obfuscation Technologies in Visual Description Services for Blind and Low Vision People.* Rahaf Alharbi (University of Michigan), Robin N. Brewer (University of Michigan), Sarita Schoenebeck (University of Michigan)

**3:** *PAIR: Prompt-Aware margin Ranking for Counselor Reflection Scoring in Motivational Interviewing.* Do June Min (University of Michigan), Verónica Pérez-Rosas (University of Michigan), Kenneth Resnicow (University of Michigan), Rada Mihalcea (University of Michigan)

**4:** *BrushLens: A Hardware Interaction Proxy for Risk-Free Actuation of Inaccessible Touchscreen Appliances.* Chen Liang (University of Michigan), Yasha Iravantchi (University of Michigan), Tomas Krolikowski (University of Michigan), Ruijie Geng (University of Michigan), Alanson Sample (University of Michigan), Anhong Guo (University of Michigan)

**5:** *Image Explorer.* Minyu Cai (University of Michigan), Dier Hou (University of Michigan), Anhong Guo (University of Michigan)

**6:** *VizLens - Appliance Reader App for Users with Visual Impairment.* Mahdi Qazwini (University of Michigan), Yatharth Chhabra (University of Michigan), Anhong Guo (University of Michigan)

**7:** *POTATO: The Portable Text Annotation Tool.* Jiaxin Pei (University of Michigan), Aparna Ananthasubramaniam (University of Michigan), Xingyao Wang (University of Illinois Urbana-Champaign), Naitian Zhou (University of California, Berkeley), Jackson Sargent (University of Michigan), Apostolos Dedeloudis (The American College of Greece), David Jurgens (University of Michigan)

**8:** *Hacking, Switching, Combining: Understanding and Supporting DIY Assistive Technology Design by Blind People.* Jaylin Herskovitz (University of Michigan), Andi Xu

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**9:** *Repurposing AI in Dating Apps to Augment Women's Strategies for Assessing Risk of Harm.* Isha Datey (Oakland University), Hanan Aljasim (Oakland University), Douglas Zytko (Oakland University)

**10:** *Rubikon: A Multimodal Tutor for 3D Physical Task Learning.* Haocheng Ren (University of Michigan), Muzhe Wu (University of Michigan), Gregory Croisdale (University of Michigan), Xu Wang (University of Michigan), Anhong Guo (University of Michigan)

**50:** *OmniScribe: Authoring Immersive Audio Descriptions for 360° Videos.* Ruei-Che Chang (University of Michigan), Chao-Hsien Ting (National Taiwan University), Chia-Sheng Hung (National Taiwan University), Wan-Chen Lee (National Taiwan University), Liang-Jin Chen (National Taiwan University), Yu-Tzu Chao (Taiwan Audio Description Development Association), Bing-Yu Chen (National Taiwan University), Anhong Guo (University of Michigan)

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**12:** *Explaining Deep Learning-Based Segmentation of Brain Tumor Images.* Rui Nie (University of Michigan), Audrey Kim (Smith College), Amaan Jogia-Sattar (University of California, Berkeley), Snehal Prabhudesai (University of Michigan), Nikola Banovic (University of Michigan)

**13:** *ReadingQuizMaker: A Human-NLP Collaborative System that Supports Instructors to Design High-Quality Reading Quiz Questions.* Xinyi Lu (University of Michigan), Simin Fan (University of Michigan), Jessica Houghton (University of Michigan), Lu Wang (University of Michigan), Xu Wang (University of Michigan)

**14:** *Reinforcement Learning-based Design for Optical Multilayer Thin Films.* Taigao Ma (University of Michigan), L. Jay Guo, (University of Michigan)

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**23:** *Evaluating Out-of-Distribution Performance on Document Image Classifiers.* Stefan Larson (DryvIQ), Gordon Lim (University of Michigan), Yutong Ai (University of Michigan), David Kuang (University of Michigan), Kevin Leach (Vanderbilt University)

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*27: Disparate Censorship & Undertesting: A Source of Label Bias in Clinical Machine Learning.* Trenton Chang (University of Michigan), Michael W. Sjoding (Michigan Medicine), Jenna Wiens (University of Michigan)

*28: Deep Learning Architectures.* Ovidiu Calin (Eastern Michigan University)

*29: AI/ML Methodologies to Predict Chronic Hepatitis B (CHB) Disease Progression in Africa.* Xianchen Yang (University of Michigan), Yi-Syuan Yen (University of Michigan), Hailemichael Desalegn (St. Paul's Hospital Millennium Medical College), Brooke Kenney (University of Michigan), Geoffrey Siwo (University of Michigan), Weijing Tang (University of Michigan), Ji Zhu (University of Michigan), Asgeir Johannessen (University of Oslo), Akbar K. Waljee (University of Michigan)

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*31: Incorporating Intent, Impact, and Context for Beneficial Machine Learning.* Esther Rolf (University of California, Berkeley)

*32: Explainable Clustering for Industrial Data Analysis.* Lige Gan (Oakland University), Xiao Yue (Oakland University), Guangzhi Qu (Oakland University), Bryan Sandoval (Yazaki North America Inc.), Eric Leszczynski (Yazaki North America Inc.), Sergio Domingues Branco (Yazaki North America Inc.)

*33: Narrative Detection and Feature Analysis in Online Health Communities.* Achyutarama Ganti (Oakland University), Steven Wilson (Oakland University), Zexin Ma

(Oakland University), Xinyan Zhao (University of North Carolina), Rong Ma (Butler University)

**34:** *Adaptable Claim Rewriting with Offline Reinforcement Learning for Effective Misinformation Discovery.* Ashkan Kazemi (University of Michigan), Artem Abzaliev (University of Michigan), Naihao Deng (University of Michigan), Rui Hou (Meta AI), Davis Liang (Meta AI), Scott A. Hale (Oxford Internet Institute & Meedan), Verónica Pérez-Rosas (University of Michigan), Rada Mihalcea (University of Michigan)

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**40:** *Micromodels for Efficient, Explainable, and Reusable Systems: A Case Study on Mental Health.* Andrew Lee (University of Michigan), Jonathan Kummerfeld (University of Sydney), Larry An (University of Michigan), Rada Mihalcea (University of Michigan)

**41:** *Analyzing the Effects of Annotator Gender Across NLP Tasks.* Laura Biester (University of Michigan), Vanita Sharma (University of Michigan), Ashkan Kazemi (University of Michigan), Naihao Deng (University of Michigan), Steven Wilson (Oakland University), Rada Mihalcea (University of Michigan)

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**43:** *Societal Biases in Fairy Tales Across Cultures.* Winston Wu (University of Michigan), Lu Wang (University of Michigan), Rada Mihalcea (University of Michigan)

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**45:** *DANLI: Deliberative Agent for Following Natural Language Instructions.* Yichi Zhang (University of Michigan), Jianing Yang (University of Michigan), Shane Storcks (University of Michigan), Jiayi Pan (University of Michigan), Nikhil Devraj (University of Michigan), Ziqiao Ma (University of Michigan), Keunwoo Peter Yu (University of Michigan), Yuwei Bao (University of Michigan), Joyce Chai (University of Michigan)

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