Nitin Sawhney Professor of Practice Professorship Sawhney Department of Computer Science Email: nitin.sawhney AT aalto.fi



Artistic and research interests

Prof. Nitin Sawhney leads the CRAI-CIS (CRitical AI and Crisis Interrogatives) research group in the Department of Computer Science at Aalto University. Working at the intersection of Human Computer Interaction (HCI), responsible AI, and participatory design research, he examines the critical role of technology, civic agency, and social justice in society and crisis contexts. Prof. Sawhney has previously conducted research in speech/audio interaction, wearable computing, distributed open source collaboration, civic/participatory media at the MIT Media Lab and The New School. At Aalto University, he is the principal investigator for a 3-year Research Council of Finland project on Reconstructing Crisis Narratives for Trustworthy Communication and Cooperative Agency, jointly conducted with the Finnish Institute for Health and Welfare (THL). It aims to analyze crisis narratives using mixed-methods, combining gualitative research with computational data analytics of crisis discourses in news, health communications, and social media. In December 2021, he received an award from the Kone Foundation for a 4-year research project Civic Agency in AI? Democratizing Algorithmic Services in the City (CAAI), which was subsequently awarded an additional 4-years of funding from the Research Council of Finland in June 2023. In September 2022, he was awarded a Strategic Research Council grant for the project Designing Inclusive & Trustworthy Digital Public Services for Migrants in Finland (Trust-M). Prof. Sawhney is a member of the research program on AI and Society at the Finnish Center for Artificial Intelligence (FCAI). At Aalto University he helped establish the research areas on Digital Ethics, Society and Policy (Digital ESP) and Human-Computer Interaction and Design (HCID). His work has been published in journals including IEEE Multimedia, ACM Transactions on Computer-Human interaction, Personal and Ubiquitous Computing, Planning Practice & Research, Al & Society: Knowledge, Culture and Communication, and Digital Creativity. He is an associate editor for the International Journal of Child Computer Interaction.

He is co-organizing Contestations.AI, a *Transdisciplinary Symposium on AI, Human Rights and Warfare* at The Train Factory, Helsinki on October 23, 2024 with over 35 international speakers.

He has previously been involved in several tech startups in clinical data platforms and real-time news and social media analysis in Cambridge and New York, and co-directed two feature-length documentary films in Gaza and Guatemala. CRAI-CIS Research Group: *https://crai-cis.aalto.fi/*

Personal Website: http://www.NitinSawhney.org

Projects

CAAI: Citizen Agency in AI: Democratizing Algorithmic Services in the City

Sawhney, N. (Principal investigator), Drobotowicz, K. (Project Member) & Kajava, K. (Project Member) 01/01/2022 → 31/12/2025

CAAI-AoF: Civic Agency in AI? Democratizing Algorithmic Services in the Public Sector

Sawhney, N. (Principal investigator), Drobotowicz, K. (Project Member), Rannisto, A. (Project Member), Kajava, K. (Project Member), Gonzalez Torres, A. P. (Project Member), Lee, S. (Project Member) & Varanasi, U. (Project Member) 01/09/2023 → 31/08/2027

Co-Creative Artificial Intelligence of Music

Tahiroglu, K. (Principal investigator), Sawhney, N. (Principal investigator), Baffy, B. (Project Member) & Murhu, M. (Project Member)

01/01/2022 → ...

STN / Trust-M / Sawhney: Designing Inclusive & Trustworthy Digital Public Services for Migrants in Finland

Sawhney, N. (Principal investigator), Eskelinen, V. (Project Member), Serpytyte, R. (Project Member), Vitiugin, F. (Project Member) & Truong, L. (Project Member) 01/10/2022 → 30/09/2025

Liquid Forms of Al-infused Disinformation: Improving Information Resilience in the Finnish News Ecosystem Tikka, M. (Principal investigator), Sawhney, N. (Principal investigator) & Paakki, H. (Project Member) 01/07/2023 → 30/04/2025

-: Profi6 Sawhney T31300

Naukkarinen, O. (Principal investigator) & Sawhney, N. (Project Member) 01/01/2021 \rightarrow 31/12/2026

-: Reconstructing Crisis Narratives for Trustworthy Communication and Cooperative Agency

Sawhney, N. (Principal investigator), Leinonen, T. (Principal investigator), Paakki, H. (Project Member), Nelimarkka, M. (Project Member), Villaman, N. (Project Member), Hyökki, S. (Project Member), Viitanen, J. (Project Member), Aledavood, T. (Project Member), Kajava, K. (Project Member), Tikka, M. (Project Member), Kajava, K. (Project Member), Tikka, M. (Project Member), Truong, L. (Project Member), Varanasi, U. (Project Member), Paakki, H. (Project Member) & Nariman Zadeh, H. (Project Member) 21/08/2020 → 30/11/2023

-: THL Sawhney 2023 Sawhney, N. (Principal investigator) 01/01/2023 → 01/05/2024

Research outputs

Enhancing Conversations in Migrant Counseling Services: Designing for Trustworthy Human-AI Collaboration

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Unveiling the Veiled Threat : The Impact of Bots on COVID-19 Health Communication

Unlu, A., Truong, S., Sawhney, N. & Tammi, T., 8 Sept 2024, (E-pub ahead of print) In: Social Science Computer Review. 30 p.

Invisible Lives, Visible Determination: Creative Agency as Resilience among Palestinian Children under Siege in Gaza Sawhney, N., 1 Aug 2024, *Lived Resistance against the War on Palestinian Children*. Morrison, H. (ed.). University of Georgia Press, 20 p. (Children, Youth, and War Series).

Unraveling Code-Mixing Patterns in Migration Discourse: Automated Detection and Analysis of Online Conversations on Reddit

Vitiugin, F., Lee, S., Paakki, H., Chizhikova, A. & Sawhney, N., 1 Jun 2024, Workshop Proceedings of the 18th International AAAI Conference on Web and Social Media. AAAI Press, 10 p.

Long-term assessment of social amplification of risk during COVID-19 : challenges to public health agencies amid misinformation and vaccine stance

Unlu, A., Truong, S., Sawhney, N., Sivelä, J. & Tammi, T., Apr 2024, In: Journal of Computational Social Science. 7, 1, p. 809-836 28 p.

Tracing the dynamics of misinformation and vaccine stance in Finland amid COVID-19

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Language of Algorithms: Agency, Metaphors, and Deliberations in Al Discourses

Kajava, K. & Sawhney, N., Nov 2023, *Handbook of Critical Studies of Artificial Intelligence*. Lindgren, S. (ed.). Edward Elgar, 15 p.

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