

# Sentiment Analysis for Pain Detection Using Multimodal Data

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PRIMARY SOURCES

1 Sanoar Hossain, Saiyed Umer, Vijayan Asari, Ranjeet Kumar Rout. "A Unified Framework of Deep Learning-Based Facial Expression Recognition System for Diversified Applications", Applied Sciences, 2021  
315 words — 1%  
Crossref

2 Saiyed Umer, Ranjeet Kumar Rout, Chiara Pero, Michele Nappi. "Facial expression recognition with trade-offs between data augmentation and deep learning features", Journal of Ambient Intelligence and Humanized Computing, 2021  
89 words — < 1%  
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3 Parikshit N. Mahalle, Namrata N. Wasatkar, Gitanjali R. Shinde. "Data-Centric Artificial Intelligence for Multidisciplinary Applications", CRC Press, 2024  
73 words — < 1%  
Publications

4 Mahmoud Hassaballah, Chiara Pero, Ranjeet Kumar Rout, Saiyed Umer. "Integrating end-to-end multimodal deep learning and domain adaptation for robust facial expression recognition", Image and Vision Computing, 2025  
64 words — < 1%  
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5 aclanthology.org  
Internet  
56 words — < 1%

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1. Title of the Thesis: Sentiment Analysis for Pain Detection Using Multimodal Data

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3. List of Publications:

(a) Journals

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# Sentiment Analysis for Pain Detection Using Multimodal Data

Thesis submitted by  
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