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Defense of Dissertation

Automatic Assessment of Neonatal Pain

by

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For the Ph.D. degree in Computer Science & Engineering

The current standard for neonatal pain is discontinuous and subjective, which can lead to over-treatment. Therefore, this dissertation introduces an automatic and comprehensive neonatal pain assessment system. The presented system analyzes facial, vocal, and body movements to assess pain levels. The system is designed to be used in typical neonatal care environments.

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