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Defense of Thesis

Automatic Assessment of Neonatal Pain

by

Ghada Alzamzmi

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

The current standard for assessing neonatal pain is discontinuous and subjective from intensive to which might lead to over-treatment. Therefore, we propose to develop a continuous pain assessment standard and develop continuous pain assessment using the pain-assessment scale. This dissertation introduces an automatic and comprehensive neonatal pain assessment system. The presented system integrates visual, vocal, and physiological features to automatically assess pain. The proposed system can be used in a hospital setting to support the system in making decisions about the level of pain and the need for analgesics. The proposed system can also be used in a clinical setting to support the physician in making decisions about the level of pain and the need for analgesics.

Friday, April 20, 2018

2:00 pm

ENR 213

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Examining Committee

Ismail Usta, Ph.D., Department of Psychology

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Dmitry Goldgof, Ph.D., Major Professor

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Teresa Ashmead, M.D.

Robert Bishop, Ph.D.

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