UNIVERSITY OF SOUTH FLORIDA

Defense of a Doctoral Dissertation

Automatic Assessment of Neonatal Pain
by
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For the Ph.D. degree in Computer Science & Engineering

The current standard for assessing neonatal pain is discontinuous and suffers from inter-observer variations, which can lead to over- or under-treatment. Therefore, it is critical to address the shortcomings of the current standard and develop continuous and less subjective pain assessment tools. This defense introduces an automatic and comprehensive neonatal pain assessment system. The presented system analyzes visual, vocal, and physiological signals and utilizes them to create a multimodal pain assessment. The performance of the system in recognizing pain events was comparable to that of trained nurses and hence proved the feasibility of automatic pain assessment in typical neonatal care environments.

Friday, April 20, 2018
2:00 pm
ENB 337

THE PUBLIC IS INVITED

Examining Committee

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