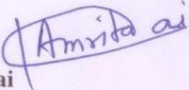


CERTIFICATE

I, **Amrita Rai**, hereby declare that the thesis entitled, “**Analysis and Design of Adaptive Volterra Filters for System Identification in Time-Varying Environment**,” submitted to Thapar University, Patiala, in partial fulfillment of the requirement for the award of the Degree of **Doctor of Philosophy in the Electronics and Communication Engineering** is a record of original and independent research work done by me during 2009-2015. This thesis has been conducted under the guidance of **Dr. Amit Kumar Kohli**, Associate Professor, Electronics and Communication Engineering Department, Thapar University. It has not formed the basis for the award of any Degree/Diploma/Associate-ship/Fellowship or other similar title to any candidate of any university.


Amrita Rai

(Signature of Candidate)

Date: 15-07-2015

This is to certify that above statement made by the candidate is correct to the best of my knowledge.

Dr. Amit Kumar Kohli

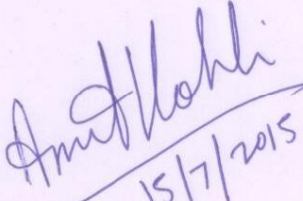
(Signature of Supervisor)

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