**Project Report**

**Parallelized Event Matching in Content-based Publish/Subscribe System**

Project work for

# B.Tech. in Computer Science and Engineering

At

# Walchand College of Engineering, Sangli.

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# [2015-16]

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This is to certify that Final Year B.Tech. Project Report entitled ‘**Parallelized Event Matching**

**in Content-based Publish/Subscribe System**’ submitted by **Miss Devyani R. Chawale (2012BCS040),**

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Science and Engineering of the **Walchand College of Engineering, Sangli**, is a bonafide work carried out during academic year 2015-16.

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**DECLARATION**

I, the undersigned, hereby declare that the project report entitled, **‘Parallelized Event Matching in Content-based Publish/Subscribe System’** written and submitted by me to Department of Computer Science and Engineering, **Walchand College of Engineering, Sangli** as a complete fulfillment for Mega Project under the guidance of **Mrs. M. A. Shah** is my sincere work. The empirical results in this project report are based on the data collected by me. I understand that any type of copying is liable to be punished as the authorities deem fit.

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## ABSTRACT

Content-based event matching is an important problem in event based pub/sub system. There are many pub/sub system like JMS, Corba NS.SIENA is research project for designing and constructing generic scalable pub/sub event notification service. This project makes a few contributions toward analysis, evaluation and development of SIENA distributed system and SIENA fast forwarding matching algorithm. We analyzed matching time taken by existing matching algorithm. To reduce matching time we developed the algorithm by using parallelism.

**Keywords:** publisher, subscriber, subscription, content-based, matching time.

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## Abbreviations

SIENA : Scalable Interface Event Notification Architecture

Pub/Sub system : Publish/Subscribe System

SFF : SIENA Fast Forwarding

QoS : Quality Of Support