

RFID-Based Attendance Management System

ABSTRACT

Organizing large professional gatherings such as international technical exhibitions, conferences, competitions, training events, etc., is a challenging task where a number of participants/delegates can be at the range of hundreds or even thousands. The event organizing committee has to correctly estimate an interest to sessions among the delegates, and to allocate premises, facilities and equipment to different topic sessions, presentations, demonstrations, etc. This paper describes an automated attendance management system that can be employed at professional gatherings of different types (conferences, exhibitions, training courses, etc.) and scales (from small-to-medium seminars and workshops to large congresses and technical shows). The system is based on application of RFID, mobile communication and IT technologies. It is capable of collecting, recording and processing data on participants of a technical gathering and their activities, attendance or different sessions, visiting different exhibition booths, etc. The system can also generate real-time combined detail reports on attendance, inflow and outflow of the participants during the event, their most and least preferred interests and activities, etc. This can be done for a multitude of locations and premises, and during an extended period of time.

EXISTING SYSTEM

Organizing large professional gatherings such as international technical exhibitions, conferences, competitions, training events, etc., is a challenging task where a number of participants/delegates can be at the range of hundreds or even thousands. The event organizing committee has to correctly estimate an interest to sessions among the delegates, and to allocate premises, facilities and equipment to different topic sessions, presentations, demonstrations, etc. Generally attendance should be taken to know how many people are attending. The people need to fill the registration form at the entrance and there by the event organizers came to know how many are attending. If there is some delay the people gets irritated and the count gets changed some times if any registration got lost.

DRAWBACKS

- Counting the number of people attending may be wrong sometimes.
- It takes lot of time.
- People attending the events may get irritated if there is a long queue.

PROPOSED SYSTEM

This paper describes an automated attendance management system that can be employed at professional gatherings of different types (conferences, exhibitions, training courses, etc.) and scales (from small-to-medium seminars and workshops to large congresses and technical shows). The system is based on application of RFID, mobile communication and IT technologies. It is capable of collecting, recording and processing data on participants of a technical gathering and their activities, attendance or different sessions, visiting different exhibition booths, etc. The system can also generate real-time combined detail reports on attendance, inflow and outflow of the participants during the event, their most and least preferred interests and activities, etc. This can be done for a multitude of locations and premises, and during an extended period of time.

ADVANTAGES

- It is a low-cost event attendance and tracking management system.
- We will get the count of the people attending the event very easily.
- Takes less time to analyse the attendance.

SYSTEM EQUIREMENTS

H/W System Configuration:-

- Processor - Pentium –IV
- RAM - 4 GB (min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

S/W System Configuration:-

- Operating System : Windows 7 or 8 32 bit
- Application Server : Tomcat5.0/6.X
- Programming Language : Java
- Java Version : JDK 1.6 and above