



# Intelligent Transport Systems Future Vision

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*Intelligent Transport Systems: Future vision*

*A review of Intelligent Transport Systems and services in Europe with a future outlook to a Sustainable, Green Efficient and Well Integrated Transport Systems.*

*The Road Map to 'Multi- Modal Seamless Travel'.*

## Dr Muna Hamdi-Biography



Muna has over 20 years of experience as an Intelligent Systems Engineer with particular focus on Real-Time Dynamic Scheduling Applications (resource management). She has a range of valuable skills including project management, networking, consortium building, negotiation, teamwork and customers focus.

Muna aims to utilise fresh research ideas into solving transport problems to form a road map into the future vision of Transport. Hence, her interest and focus is on transport systems integration and multi-model travel. With this goal in mind, Muna has organised a successful event "ITS: Future Vision" in November 2009, where she started building the means that would allow this vision to come true. The Middle East and North Africa are her region of activities where she believes that it acts as a 'Green Field' with respect to transport systems, offering a unique opportunity to implement the ITS future model of - 'Seamless Travel'

In addition to her involvement with transport innovation in UK, Muna is also the *Research Director of ITS Arab* responsible of the research development and knowledge transfer programme. She also actively participated in Middle East events such as *MED-IST*, "*The ICT Link between Europe and all Mediterranean Partner Countries*" event and was invited to the following *JOIN-MED - "Establishing the EU-Mediterranean ICT Research Network"* in 2009.

Muna is a member of Arab Science and Technology Forum (ASTF) where she acted as their representative during EUMEDCONNECT, a project to establish and operate an IP-based network in the Mediterranean region. At the University of Portsmouth, Muna gave advice and support to ASTF on establishing Technology Transfer Offices in the MENA region.

Muna is experienced researcher; in Iraq (prior to 1990) she was one of the founders of Electronics and Computers Research Centre at the Scientific Research Council. Where she published her first Journal paper. Her main research area was in Embedded Real-Time Microcontrollers Applications. Muna was also involved in a number of Knowledge Transfer projects and events that raised public awareness to the latest in computing technologies addressing for example, the Education System and general public.

In the UK, Muna obtained her PhD in Intelligent Systems from Loughborough University. During her PhD (1997-1999) Muna was also working at Nortel Networks as a Systems Engineer on Intelligent Traffic Congestion Management. After graduation, Muna joined a number of research teams focusing on investigating methods that can be applied to optimise, control and solve problems within real world problems; in industry, commerce and public services. Working for projects that aim for better quality of life, increasing productivity and profits, by automating systems to work reliably at all times under variety of conditions. For example in 2000 she joined the Intelligent Planning and Scheduling group in Durham University (currently the 'planning group' in Strathclyde). In 2008 Muna was the Technical Project Manager with the Institute of Industrial research focusing on using Intelligent Solutions for Knowledge Transfer industrial projects. Her main interest was in Intelligent Transport Systems, Monitoring Systems and Ambient Intelligence.