LinSig3 : Networks and Advanced Features Computer Workshop

Thursday 18th October 2018

London - Holiday Inn Bloomsbury

Duration: 2 days
Price: £590 (exc. VAT)

Overview

Accurate LinSig modelling is fundamental to traffic signal design, transport assessments for development and detailed studies where traffic signal junctions are a major determinant of transport outcomes.

This course takes up where the LinSig 3 Junction modelling workshop finishes and covers the use of LinSig 3 to model highway networks containing traffic signal junctions, priority junctions and roundabouts. It also covers a range of more advanced LinSig features relevant to both junctions and networks. The course is computer based with practical workshop exercises being used throughout.

Who Should Attend

This course is suitable for anyone who requires a more in depth knowledge of LinSig or wishes to model networks using LinSig and wishes to ensure their modelling is robust and accurate.

As well as being suitable for those who have recently completed the LinSig 3 Junction Modelling Workshop it is also suitable for experienced LinSig users who wish to ensure they are up to date with the many network modelling features added to LinSig since the release of LinSig 3. The course is also appropriate for anyone who, whilst not building models themselves, are required to authorise or audit LinSig network models submitted by others.

Pre-requisites

Delegates are expected to have a basic understanding of how traffic signals work and know what is meant by terms such as phase, stage, intergreen, saturation flow and capacity. This and much more can be gained by either attending the JCT Introduction to Traffic Signals 2 day course or the one day JCT Essentials of Traffic Signals for Modellers. These courses are usually held immediately prior to each LinSig Junction Modelling Workshop, and can be attended as part of a discounted training bundle.

Delegates should also have sufficient knowledge or experience of LinSig 3 to be able to at least build a LinSig 3 model of a single junction. LinSig junction model building skills can be attained by attending the LinSig3 Junction Modelling Workshop which is usually held immediately prior to this course.

Course Content

Since 1985, LinSig has been the industry standard modelling software for traffic signal design and assessment.With the release of version 3, LinSig?s capabilities were extended to larger networks with features such as matrix estimation and delay based assignment.

The course involves extensive computer usage and covers the following topics:

Day 1

Understanding Cyclic Flow profiles in the context of a complicated double junction and applying cruise times, platoon dispersion and platoon compression.

Vehicle movements through successive stop lines with explanations of coordination, flow graphs, queue graphs, platoon dispersion and platoon compression.Double junction modelling with both single and parallel stage streams.

Using LinSig3 give-way parameters to model priority junctions and also conventional roundabouts on a lane by lane basis.

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Larger networks of junctions with multiple controllers.Importing and merging LinSig 3 and LinSig 2 single junction models.Matrix estimation from junction counts, delay based assignment and checking of routes through networks.

Day 2

Working with multiple controllers, controller sets and network control plans and using multiple cycle times in a network model.

Advanced assignment and matrix estimation options including customised and behavioural assignment, limiting Degrees of Saturation, weighting of cruise times and using partial and prior matrices.

Lane Based flow entry with use of multiple layers and combining Lane Based and Matrix Based flows in the same network model.

Modelling buses by the use of both bus layers and bus zones, including the modelling of bus dwell times, bus lanes, pre signals and bus set-backs (including the use of bonus greens).

Importing TranEd models into LinSig3.

Accreditation

All JCT courses are Approved or are pending Approval by the Institute of Highway Engineers and attendance is therefore recognised by the IHE and many other bodies as evidence of Continual Professional Development (CPD).

Courses are managed under a ISO9001 Quality Management System.

Dates & Times

This course will run from Thursday 18th October 2018 and last for 2 days.

The following schedule should apply although all times are provisional and subject to change as required on the day:

Day 1: 09:15 - 17:00.

Day 2: 09:15 - 17:00.

Course Venue

Venue: London - Holiday Inn Bloomsbury

Location: London

Venue website: www.ihg.com/holidayinn/hotels/gb/en/london/lonbl/hoteldetail

Address of venue: Coram St, Bloomsbury, London

Venue postcode: WC1N 1HT

How to get there:

Train Station

Kings Cross / St Pancras EuroStar

Come out of the station and turn right onto Euston Road, turn left onto Mabledon Place continue straight onto Marchmont Street. The Hotel is on the right hand side.

Estimated distance to the hotel: 1.0

Cost of Train: Prices vary

Subway

Estimated distance to the hotel: 1.0

Cost of Underground: Prices vary

Onsite Parking Available

A public car park is available beneath the hotel. Max height 6'6". Telephone: +44 (0) 207 833 9956. PLEASE NOTE THAT THE HOTEL IS WITHIN THE CENTRAL LONDON CONGESTION CHARGE ZONE. THE CONGESTION CHARGE IS £11.50 PER DAY.

From the Airport

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London Heathrow (LHR) : Take the A3044 then take the M25, exit for the M4, Hounslow exit then take A4, direction Central London, pass Tottenham Court Road then take a left on Southampton Row. Coram Strett is at the far end of the road.

From the North

Take the M1 South exit at Junction 2, take the A1, then take the A400. Turn left at Camden Street and continue on the A400. Turn left at Eversholt Street A4200, cross Euston Road, turn left at Coram Street. The hotel is on your right hand side.

From the South

Take the M23 or A23 to Brixton, follow Brixton Road through Waterloo Bridge, cross river and over the Strand, Bear right into Aldwych and turn left into Kingsway, follow the road North to and around Russell Square, turn left at the lights onto Upper Woburn Place, first night is Coram Street.

From the East

Take the A12 or A13 into Central London and Kind Cross, follow the Euston Road to Euston Station, Turn left onto Upper Woburn Place, Second Road on the left is Coram Street.

From the West

Take the M40 or A40 into Central London, follow the A40 down Marylebone road, follow Marylebone Road to Euston Station, turn right opposite Euston Station onto Upper Woburn Place, second road on the left is Coram Street.

Description of venue:

A stylish central London hotel Holiday Inn® London - Bloomsbury hotel is moments from Russell Square Tube station on the Piccadilly Line. It's close to major transport hubs ? Kings Cross St Pancras station and Euston station are both less than a mile away, reachable in five minutes by bus or taxi. You can drive to Heathrow Airport (LHR) in 40 minutes.

Course Tutors

Depending upon scheduling constraints, our course tutors will sometimes split tuition between them or teach a given course in its entirety whilst the other is unavailable. Please contact us directly if you need more specific detail about who will be teaching a specific course.

Course tutor: John Nightingale MSc(Eng), CEng FIHE MCIHT

The information presented here is kept as accurate and up to date as possible, nevertheless, this document is static and cannot be updated if any changes to the course arrangements are made. We make every effort to inform our delegates if we have to make any cancellations and if any changes are made to the venue or schedule. We also advise all delegates to check the website or contact us directly to confirm course details a few days before the course starts.

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