

# **Do Roundabouts Work? An Evaluation for Uniform Approach Demands**

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Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in partial fulfillment of the requirements for the degree of

Master of Science  
In  
Civil Engineering

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Name: Meredith Jackson

Description of item under review for fair use: Figure 1 1: One lane intersection conflict points Source: Robinson, B.W. R. Lee et al, 200

Report generated on: 07-25-2011 at : 12:12:05

## **Based on the information you provided:**

### **Factor 1**

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

### **Factor 2**

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

### **Factor 3**

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

### **Factor 4**

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *against fair use*

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Description of item under review for fair use: Figure 1 2 and Figure 3 1: Volumes recommended for different traffic control devices. Roundabouts may be a viable alternative for portions of these ranges. TRB, 2000

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### **Factor 1**

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

### **Factor 2**

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

### **Factor 3**

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### **Factor 4**

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *against fair use*

**Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***

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Description of item under review for fair use: Figure 2 1: Critical gap and follow-up gap times from different sources

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**Factor 1**

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

**Factor 2**

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

**Factor 3**

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

**Factor 4**

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**Based on the information you provided, your use of the copyrighted work weighs: *in favor of fair use***

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Description of item under review for fair use: Figure 2 2: qualitative measures of effectiveness from Kansas Source: Russell, E. R., M. Rys, et al., 2000

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**Based on the information you provided:**

**Factor 1**

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

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## **Factor 3**

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Description of item under review for fair use: Figure **Error! No text of specified style in document.**-1: parameters used in SIDRA emissions model Source: Akcelik R and M. Besley, 2003

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## **Factor 1**

Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

## **Factor 2**

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

## **Factor 3**

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

## **Factor 4**

Your consideration of the effect or potential effect on the market after your use of the copyrighted work weighs: *against fair use*

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Description of item under review for fair use: Figure **Error! No text of specified style in document.**-2: Percent improvement using a roundabout over a All-way stop controlled intersection Source: Vlahos, E., A. Polus, et al 2008

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Your consideration of the purpose and character of your use of the copyright work weighs: *in favor of fair use*

## **Factor 2**

Your consideration of the nature of the copyrighted work you used weighs: *in favor of fair use*

### **Factor 3**

Your consideration of the amount and substantiality of your use of the copyrighted work weighs: *in favor of fair use*

### **Factor 4**

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**Based on the information you provided, your use of the copyrighted work weighs:***in favor of fair use*

Description of item under review for fair use Figure **Error! No text of specified style in document.**-3: Maximum Demand for a roundabout when compared to a signal Vlahos, E., A. Polus, et al. 2008

Report generated on: 07-25-2011 at : 12:34:09

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## **Factor 4**

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**Based on the information you provided, your use of the copyrighted work weighs:***in favor of fair use*