EVALUATION OF DRIVER PERFORMANCE WHILE MAKING UNPROTECTED INTERSECTION TURN

UTILIZING NATURALISTIC DATA INTEGRATION METHODS

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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

Industrial and Systems Engineering

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Virginia Tech ETD Fair Use Analysis Results

This is not a replacement for professional legal advice but an effort to assist you in making a sound decision.

Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:44:00

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: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use
Virginia Tech ETD Fair Use Analysis Results

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Name: Sudipto Aich

Description of item under review for fair use: Figure 2. Fatalities at Intersection by Crash Type in 2007. Source: FHWA(2009), The National Intersection Safety Problem. Intersection Safety Issue Briefs, U.S. Department of Transportation, Federal Highway Administration, Washington D.C.

Report generated on: 01-13-2012 at : 09:47:41

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

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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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Virginia Tech ETD Fair Use Analysis Results

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Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:52:05

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: in favor of fair use

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Based on the information you provided:

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Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:58:16

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: in favor of fair use

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Virginia Tech ETD Fair Use Analysis Results

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Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:59:03

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: in favor of fair use

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Virginia Tech ETD Fair Use Analysis Results

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Name: Sudipto Aich

Description of item under review for fair use: Table 1: Relative Risk (RR) in Ran Traffic Control Cases (FARS 1994-1995). All relative risks are calculated respective to drivers aged 40-49. All Confidence interval using 95% confidence did not include 1.00 RR except those in bracket. Source: Preusser, D., Williams, A., Ferguson, S., Ulmer, R., & Weinstein, H. (1998). Fatal crash risk for older drivers at intersections. Accident Analysis and Prevention, 30 (2), 151-159.

Report generated on: 01-13-2012 at 09:49:04

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: in favor of fair use

Based on the information you provided, your use of the copyrighted work weighs: in favor of fair use
Virginia Tech ETD Fair Use Analysis Results

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Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:50:38

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

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Factor 3

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Name: Sudipto Aich


Report generated on: 01-13-2012 at : 09:59:43

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

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Factor 4

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Name: Sudipto Aich

Description of item under review for fair use: Table 5: Critical gap values during daytime and nighttime driving for all age groups. Source: Dissanayake, S., Lu, J., & Yi, P. (2002). Driver age differences in day and night gap acceptance capabilities. International Association of Traffic and Safety Sciences.

Report generated on: 01-13-2012 at : 10:00:33

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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Description of item under review for fair use: Table 21: Acceptable Gap Distance based on vehicle type, turn type and roadway construction, Source: Campbell, J. L. (2008). NCHRP 17-31 & 17-41: Human Factors Guidelines (HFG) for Road Systems Current Status and Next Steps . AASHTO.

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