

# Development of Auto Measuring System on Tred and Contact Pressure of Traffic Wheels

メタデータ	言語: jpn 出版者: 公開日: 2022-11-10 キーワード (Ja): キーワード (En): 作成者: Kajikawa, Yasuo メールアドレス: 所属:
URL	<a href="https://doi.org/10.24517/00068024">https://doi.org/10.24517/00068024</a>

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# 1986 Fiscal Year Final Research Report Summary

## Development of Auto Measuring System on Tred and Contact Pressure of Traffic Wheels

Research Project

### Project/Area Number

60850089

### Research Category

Grant-in-Aid for Developmental Scientific Research

### Allocation Type

Single-year Grants

### Research Field

土木構造

### Research Institution

KANAZAWA UNIVERSITY

### Principal Investigator

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### Project Period (FY)

1985 - 1986

### Keywords

Traffic load / Traffic flow / 計測

### Research Abstract

The auto measuring system which can automatically and continuously monitors the traffic flows and loads has been developed. Its system consists of three subsystems as follows,

- (1) Switch sensor mat : The switch mat is 800x7x7200mm flexible rubber mat. The switch sensors consists of two groupes;the main switch and the trigger switch. This mat is rested on the road covering the lanes and fixed to the road surface with cohesive tape.Vehicle wheels push the trigger and main switches.
- (2) Data logging box : Data logging box has its ROM and RAM ,timer. The on-off bits of 72 main switches and times when the wheels push the trigger switches store to RAM. After memory full,these data in RAM are sent to extra memory device with RS-232C or GPIB interface.
- (3) Data processing : Data in extra memory device are processed by microcomputer. The present soft-wears can display some distribution graphs of traffic

volume of each vehicle type, moving speed, headway, spacing, center of vehicles and lateral position of wheels on CRT or printer. This system can be used to automatical, long-time, easy measurements and these equipments are very portable.

## Research Products (7 results)

All Other

All Publications (7 results)

- [Publications] 西沢辰男, 梶川康男, 富田弘之: 第40回年次学術講演会講演概要集. 467-468 (1985) ▼
- [Publications] 梶川康男, 西沢辰男: 第16回日本道路会義論文集. 569-570 (1985) ▼
- [Publications] 梶川康男, 西沢辰男: 昭和60年度土木学会中部支部研究発表会講演概要集. 20-21 (2986) ▼
- [Publications] 西沢辰男, 梶川康男, 宇佐武則: 第11回土木学会電算機利用に関するシンポジウム論文集. 95-102 (1986) ▼
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- [Publications] NISHIZAWA T., Y.KAJIKAWA and T.USA: "Development of Traffic Load Auto Measuring System" Proceedings of the 11th Symposium on Engineering Information Processing System, JSCE. 95-102 (1986) ▼

URL: [https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-60850089/608500891986kenkyu\\_seika\\_hokoku\\_](https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-60850089/608500891986kenkyu_seika_hokoku_)

Published: 1988-11-08