

Researchers
National Laboratories
in Japan
1993

**RESEARCH DEVELOPMENT CORPORATION OF JAPAN
(JRDC)**

新技術事業団

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Introduction

Today, the "interdisciplinary" research activities which go beyond the framework of traditional research areas and extend over plural areas are progressing.

Under this circumstances, the efforts for smooth communications among researchers of different disciplines, which will contribute not only to vitalization of researchers' activities but also creation of new "interdisciplinary" studies, are extremely important. Its importance will continuously increase in the future.

When each researcher needs information of and cooperation with the other researchers of different disciplines for undertaking his own research, it is very useful for him to have such information which is systematically prepared as to be able to respond to the question "Who is conducting what kind of research and in which research institute?" and "How one can contact with the researcher?". These information will help researchers in the world to facilitate the communication among the researchers of different disciplines.

For responding to this demand, Research Development Corporation of Japan (JRDC) planned to publish a directory of researchers in the national research institutes in Japan. The directory contains those information such as research field, research theme, papers, academic society associated and contact points and so on.

I wish that this directory will be used by researchers as many as possible and will contribute to the development of science and technology of the world as a result.

At the end, I express my gratitude to many researchers and administrative staff of the national research institutes for their cooperation in completing this directory.

Nobuhisa Akabane
President
Research Development
Corporation of Japan (JRDC)

User's Guide

The information contained in the directory is compiled based on a questionnaire survey responded by individual researchers of each national research institutes. The information shows the situation of each researcher on November 1, 1992. The survey was made by the Department of International Research Exchanges, JRDC, under the cooperation of the national research institutes.

1. The directory covers 81 national research institutes in the fields of natural science and technology. The researchers are found in the institutes where they belong. The total number of researchers described in this directory is about 4,700 persons.
2. Data contained in this directory are: an official position and a title; educational career (higher education); name of laboratory where they work now; research field and theme; research papers and publication; academic societies associated with; academic prizes, and address.
3. "Research field and theme" has codes which are described in the attached classification list of science and technology field. When a researcher is engaged in more than two fields, a slash (/) is put between each of them.
4. The number in parentheses at the item "Awards" means the year they are given.
5. Indexes
 - ① "Subject index"
The order of researchers is alphabetical.
 - ② "Biographical index"
The order of researchers is alphabetical.

1993

Department of International
Research Exchanges,
Research Development
Corporation of Japan (JRDC)

Research Development Corporation of Japan (JRDC)

Since its inauguration in 1961 as a statutory corporation fully owned by the Japanese Government, JRDC has been conducting following activities:

- (1) Promotion of transfer of new technologies developed by universities and national research institutes to the private sector;
- (2) Exploratory Research for Advanced Technology (ERATO) in which advanced science and technology are to be fostered with the participation of outstanding researchers from academy, industry and government;
- (3) High-Tech Consortium System which examines research results achieved by universities, national research institutes and the above-mentioned ERATO, and develops them further to give them further value for application purposes under the participation of private firms and researchers from various fields who are active to develop new technologies;
- (4) Promotion of international research exchanges; Major programs of which are International Joint Research Program, the STA (Science and Technology Agency) Fellowship Program, Support Programs for foreign researchers in Japan and the Information Provision Program.

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National Research Institute of Police Science

6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan
Pone : 03-3261-9986 / 219 Fax : 03-3261-9986

ADACHI Kohei

Born: 1958

Laboratory: Psychology Section

Title: Researcher

Research field and theme:

Statistical Information Retrieval (X-01 / M-05)

Psychometric Formulation of Polygraph Test (X-01 / M-05)

Papers:

Retrieval of faces from features described by eyewitnesses / Shinrigaku-Kenkyu (Japanese Journal of Psychology) Vol. 63, No. 1, pp. 55-59 (in Japanese) (Apr. 1992)

Analysis of perceptual dimensions of facial similarity via multidimensional scaling / Oyo-Shinrigaku-Kenkyu (Japanese Journal of Applied Psychology) No. 15, pp. 1-7 (in Japanese) (Sept. 1990)

A Computer-based System for Objective Diagnosis in Polygraph Test / Kagaku-keisatsu-Kenkyusho-Hokoku (Reports of the National Research Institute of Police Science) Vol. 45, No. 4 (in Japanese) (in Printing)

Societies: The Japanese Psychological Association / The Behaviorometric Society of Japan / The Japan Association of Applied Psychology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 242 **Fax:** 03-3261-9986/219

FUJITA Goro

Born: 1964

Laboratory: Traffic Safety Section

Title: Researcher

Research field and theme:

Psychological Research on Road Traffic Problems, Human factor of Road Traffic Accidents (X-01)

Papers:

A Study of Nighttime Traffic Accidents the Effect of Vehicle Headlights and Road Illumination on the Visibility of Parking Vehicles / Reports of the National Research Institute of Police Science 1993 Characteristics of Traffic Accidents in Private Driving / Reports of the National Research Institute of Police Science Research on Traffic Safety and Regulation Vol. 33, No. 2, pp. 126-133 (July 1992)

Societies: Japan Society of Traffic Engineers / The Japanese Association of Educational Psychology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

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HARADA Yutaka

Born: 1956

Laboratory: Social Environment Section

Title: Senior Researcher

Higher education: Master of Sciences in Criminology

Research field and theme:

Quantitative analyses on social correlates of crime and delinquency (X-01)

Probabilistic modeling of longitudinal patterns of criminal behavior (X-01)

Papers:

A Study on Delinquent Careers of the 1970 Birth Cohort / Reports of the National Research Institute of Police Science: Research on Prevention of Crime and Delinquency Vol. 31, No. 2, pp. 105-15; Vol. 32, No. 1, pp. 38-52 (in Japanese) (Dec. 1990; Jul. 1991)

Disaggregating "Low Crime Rate": Longitudinal Patterns in Offending in Japan / Criminological Research Reports by the Max Planck Institute for Foreign and International Penal Law Vol. 50, pp. 511-40 (1991)

A Study on the Recidivism of Stimulant Drug Offenders: An Application of Survival Analysis / Reports of the National Research Institute of Police Science: Research on Prevention of Crime and Delinquency Vol. 31, No. 1, pp. 10-19 (in Japanese) (1990)

Societies: Japan Sociological Society / Japanese Association of Sociological Criminology / American Society of Criminology

Awards: First Prize in the 1989 Gene Carte Student Paper Competition of the American Society of Criminology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 432 **Fax:** 03-3221-1245

HIGASHIKAWA Yoshiyasu

Born: 1964

Laboratory: Third Chemistry Section

Title: Researcher

Research field and theme:

Studies on Systematic Trace Evidence Examination for Forensic Science Investigation (C-03 / X-01)

Papers:

Discrimination of Tire Smears-Application of Pyrolysis Gas Chromatography / Mass Spectrometry— / Kagaku-keisatsu Kenkyusho Hokoku (Reports of the National Research Institute of Police Science) Vol. 45, No. 2, pp. 96-102 (May. 1992)

Identification of a Single Fiber 2. Analysis of Dyestuffs in Single Fibers by HPLC / Kagaku-keisatsu Kenkyusho Hokoku (Reports of the National Research Institute of Police Science) Vol. 45, No. 1, pp. 38-47 (Feb. 1992)

Application of Instrumental Analysis to Trace Physical Evidences / Proceedings of the 11th Australian & New Zealand International Symposium on the Forensic Sciences p. 91 (Aug. 1992)

Societies: The Japan Society for Analytical Chemistry / The Society of Polymer Science / Japanese Medical Society of Alcohol Studies

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

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HOSHI Akiyoshi

Born: 1934

Laboratory: Document Examination Section

Title: Head

Research field and theme:

Metallurgical processing (I-05)

Document examination using photographic technique (W-02)

Printed matter examination (X-01)

Papers:

Structural change of the coins as heated in high temperature (I) / Reports of National Research Institute of Police Science Vol. 19, No. 4, pp. 53-67 (in Japanese) (Dec. 1966)

Physical examination of forged Federal Reserve Note / Reports of National Research Institute of Police Science Vol. 40, No. 4, pp. 33-40 (in Japanese) (Nov. 1987)

Classification of Hiragana letter of phototypesetter

Societies: Japanese Society of Printing Science and Technology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 311 **Fax:** 03-3221-1245

HOSHINO Kanehiro

Born: 1936

Laboratory: Crime Prevention and Juvenile Delinquency Department

Title: Director, Crime Prevention and Juvenile Delinquency Department

Higher education: Doctor of Philosophy

Research field and theme:

Prevention of Organized Crime (X-01)

Crime Prevention through Environmental Engineering (O-05)

Papers:

Organized Crime and Its Origins in Japan / The Review of Comparative Law, Vol. 5, pp. 200-241 (1990)

Post-War Law Enforcement: Its Social Impact / Research Papers and Policy Studies, Institute of East Asian Studies, University of California (Berkeley), No. 9, pp. 199-223 (1984)

Fear of Crime / Criminology and Society No. 4, pp. 239-255 (1987)

Societies: American Society of Criminology / International Society of Criminology / Japanese Association of Sociological Criminology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 410 **Fax:** 03-3261-9986/219

ICHIKAWA Kazuko

Born: 1968

Laboratory: Traffic Safety Section

Title: Researcher

Research field and theme:

Psychological Research on Road Traffic Problems including Drivers License and Safety Education (X-01)

Papers:

Trends of Nighttime Traffic Accidents and the Visibility of Crossing Pedestrians / REPORTS of the National Research Institute of Police Science Vol. 34, No. 1, in printing (in Japanese)

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 464 **Fax:** 03-3221-1245

IMAIZUMI Kazuhiko

Born: 1965

Laboratory: First Medico-Legal Section

Research field and theme:

Study on Personal Identification of skeletal Remains (F-01 / E-01)

Societies: The Medico-Legal Society of Japan

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 253 **Fax:** 03-3221-1245

INOUE Takako

Born: 1946

Laboratory: First Chemistry Section

Title: Chief of First Chemistry Section

Higher education: Doctor of Pharmacy

Research field and theme:

Analysis of Abused Drugs (F-05)

Metabolism of Abused Drugs (F-05)

Papers:

High-Performance Liquid Chromatographic Determination of Triazolam and Its Metabolites in Human Urine / Journal of Chromatography, Vol. 422, 197 (1987)

The Metabolism of (±)-Methylephedrine in Rat and Man / Xenobiotica, Vol. 20, 99 (1990)

Analysis of Impurities in Illicit Methamphetamine / Forensic Science International, Vol. 56, 157 (1992)

Societies: Pharmaceutical Society of Japan / The Chemical Society of Japan / The International Association of Forensic Toxicologists

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

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KASAI Kentaro

Born: 1954

Laboratory: Second Medico Legal Section

Title: Senior Researcher

Higher education: Doctor of Philosophy

Research field and theme:

Forensic Application of DNA Typing to Biological Evidence Samples (E-04 / E-05 / E-06)

Papers:

Amplification of Variable Number of Tandem Repeats (VNTR) Locus (PMCT118) by the Polymerase Chain Reaction (PCR) and Its Application to Forensic Science / Journal of Forensic Science Vol. 35, No. 5, pp. 1196-1200 (Sept. 1990)

DNA Typing of MCT118 Locus from Human Bloodstains and Body Fluid Stains by PCR Amplification / Kagakukenkyusho-Houkoku Vol. 45, No. 1, pp. 24-35 (in Japanese) (Feb. 1992) (Reports of the National Research Institute of Police Science)

Societies: The Medico-Legal Society of Japan / The Japanese Biochemical Society / The Japan Society of Human Genetics

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KIDO Tomoo

Born: 1942

Laboratory: Traffic Regulation Section

Title: Researcher

Higher education: Doctor of Engineering

Research field and theme:

Leisure Traffic (P-01 / P-05)

Traffic Survey (P-01 / P-05)

Traffic Regulation Technique (P-01 / P-02 / P-05)

Papers:

A Study of Survey Techniques for Evaluating the Traffic Smoothness and Safety of Road Networks / Doctoral thesis (in Japanese) (Sep. 1990)

Effect of Raising Speed Limits for Spot Speeds and Traffic Accidents on Arterial Roads / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 29, No. 1, pp. 72-79 (in Japanese) (Jan. 1988)

Traffic Phenomena at Railroad Grade Crossings / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 31, No. 1, pp. 10-14 (in Japanese) (Jan. 1990)

Societies: Japan Society of Traffic Engineers

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KINOSHITA Katsuhiko

Born: 1944

Laboratory: Fire Investigation Section

Title: Head

Research field and theme:

Basic Research on Carbonized Products of Organic Insulating Materials (C-08 / K-08 / X-01)

Studies on the Phenomenon of Breeding Process of cuprous Oxide at the Electrical Contacts (I-07 / K-08 / X-01)

Experiments on the Combustion Velocity of Inflammables (O-04 / R-06 / X-01)

Papers:

Effect of Atmosphere upon Oxidizing Behaviors of Wooden Boards Heated for Long Time at Low Temperature / Nihon Kasai Gakkai Ronbun Shuu (Bulletin of Japanese Association of Fire Science and Engineering) Vol. 27, No. 1, pp. 17-24 (in Japanese) (Nov. 1977)

Spherical Flame Initiation: Theory versus Experiments for Lean Propane-Air Mixtures / Combustion and Flame Vol. 65, No. 3, pp. 319-337 (Sep. 1986)

Studies on the Ignitability of Inflammables by a Smoldering Cigarette 2. The Ignitability of a Quilt and a Mattress / Kagaku Keisatsu Kenkyusho Houkoku (Reports of the National Research Institute of Police Science) Vol. 41, No. 1, pp. 45-54 (in Japanese) (Feb. 1988)

Societies: Japanese Association of Fire Science and Engineering / Japan Society for Safety Engineering / The Institute of Electrical Engineers of Japan

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KISHI Tohru

Born: 1947

Laboratory: Explosion Investigation Section

Title: Head

Higher education: Doctor of Science

Research field and theme:

Analysis of explosives and explosive residues (C-03 / T-02)

Papers:

Forensic Neutron Activation Analysis-Japanese Scene / Journal of Radioanalytical and Nuclear Chemistry Vol. 114, No. 2, pp. 275-280 (1987)

Analysis of Anions in Explosive Residues by Capillary Electrophoresis / Kagakukeisatsukenkyusho Hokoku Hokagakuhen Vol. 45, No. 4, pp. 159-161 (1992) (in Japanese)

Analysis of Trace Elements in Methamphetamine Hydrochloride by Inductively Coupled Plasma-Mass Spectrometry / Journal of Research of National Bureau of Standards Vol. 93, No. 3, pp. 469-471 (May 1988)

Societies: The Industrial Explosives Society / The Japan Society for Analytical Chemistry / Japan Radioisotope Association

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Phone / Ext.: 03-3261-9986 **Fax:** 03-3221-1245

KOBAYASHI Juichi

Born: 1960

Laboratory: Juvenile Guidance Section

Title: Researcher

Higher education: Master of Arts

Research field and theme:

Causal Theories of Crime and Delinquency (X-01)

Community Policing (X-01)

Citizen Participation in Crime Prevention (X-01)

Papers:

A Study on the Junior High School Students' Attitudes toward Violence / Kagakukeisatsukenkyushohoukoku (Reports of the National Research Institute of Police Science) Vol. 28, No. 1, pp. 15-26 (in Japanese) (Jul. 1987)

A Study on Attribution of Responsibility for Delinquency / Kagakukeisatsukenkyushohoukoku (Reports of the National Research Institute of Police Science) Vol. 30, No. 2, pp. 51-67 (in

Japanese) (Dec. 1989)

Police Response to Domestic Violence / Keisatsukenkyu (Police Studies) Vol. 60, No. 8, pp. 17-25 (in Japanese) (Aug. 1989)

Societies: American Psychological Association / American Society of Criminology / American Psychology-Law Society

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

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KOJIMA Yukio

Born: 1949

Laboratory: Automotive Engineering Section

Title: Senior Researcher

Research field and theme:

Comparative Study of Driving Behavior between Novice and Skilled Drivers (J-04 / J-09)

Papers:

Characteristics of Driver-Vehicle Systems during Right-Turning at Signalized Intersections / Reports of National Research Institute of Police Science (Research on Traffic Safety and Regulation), Vol. 30, No. 1, pp. 70-75 (in Japanese) (1989)

Driving Characteristics of Heavy Duty Trucks by Comparison between Novice and Skilled Drivers / Reports of National Research Institute of Police Science (Research on Traffic Safety and Regulation), Vol. 29, No. 1, pp. 49-60 (in Japanese) (Jan. 1988)

Influence of Weather Factors on Safe Driving of Motor Vehicles / Reports of National Research Institute of Police Science (Research on Traffic Safety and Regulation), Vol. 28, No. 1-Vol. 30, No. 1 (in Japanese) (Jan. 1987-Jan. 1989)

Societies: Society of Mechanical Engineers / Society of Automotive Engineers / Society of Ergonomics

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 **Fax:** 03-3221-1245

KONUMA Hiroyoshi

Born: 1944

Laboratory: Physics Section

Title: Head

Higher education: Doctor of Engineering

Research field and theme:

X-ray Spectroscopy / EXAFS / EPMA (B-14 / C-06 / H-06) (B-14)

Papers:

Rate of Carbon Contamination on Al Targets in a High Vacuum Electron Excitation X-Ray Tube / JAPANESE JOURNAL OF APPLIED PHYSICS Vol. 18, No. 2, pp. 357-362 (Feb. 1979)

EXAFS in the Soft X-ray Region / JOURNAL OF THE CRYSTALLOGRAPHIC SOCIETY OF JAPAN Vol. 27, No. 3, pp. 213-220 (May 1985) (IN JAPANESE)

Some Constants in ZAF Corrections / ADVANCES IN X-RAY CHEMICAL ANALYSIS JAPAN Vol. 20, pp. 151-159 (Mar. 1989) (IN JAPANESE)

Societies: The Japan Society of Applied Physics / The Physical Society of Japan

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 341 **Fax:** 03-3221-1245

KUMOOKA Yoshio

Born: 1953

Laboratory: Explosion Investigation Section

Title: Senior Researcher

Higher education: Master of Science

Research field and theme:

Analysis of explosives in the explosion residues (C-03 / T-02)

Papers:

Analysis of Anions in Explosive Residues by Capillary Electrophoresis / Kagakukeisatsukenkyujohoukoku Vol. 46 (in Japan-

ese) (1993) (in printing)

Societies: The Industrial Explosives Society, Japan

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 **Fax:** 03-3221-1245

KUROKI Kenro

Born: 1954

Laboratory: Physics Section

Title: Senior Researcher

Research field and theme:

Image Processing (M-02)

Interaction Between Charged particles and Solid (B-13)

Gas Collision (B-12)

Papers:

Energy loss spectroscopy of CF_4 at nonzero scattering angle / J. chem. phys. 96(8) 15 Apr. 1992

Secondary electron emission from a C-foil resulting from the passage of orientation selected He_2^+ molecular ions / Nucl. Inst. Meh: phys. B67 (1992)

Societies: The Physical Society of Japan

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 343

MARUMO Yoshiteru

Born: 1943

Laboratory: Third Chemistry Section

Title: Head

Higher education: Doctor of Agriculture

Research field and theme:

Studies on Systematic Trace Evidence Examination for Forensic Science Investigation (C-03 / X-01)

Application of Soil Science to Forensic Soil Discrimination (D-06 / X-01)

Papers:

Clay Mineralogical Analysis Using the <0.05-mm Fraction for Forensic Science Investigation / Journal of Forensic Sciences Vol. 31, No. 1, pp. 92-105 (Jan. 1986)

Identification of Single Fiber 1. The Extraction and Discrimination of Dyestuffs by Thin-Layer Chromatography / Kogakukeisatsu Kenkyusho Hokoku (Reports of the National Research Institute of Police Science) Vol. 44, No. 1, pp. 50-58 (Feb. 1991)

Application of Instrumental Analysis to Trace Physical Evidences / Proceedings of the 11th Australian & New Zealand International Symposium on the Forensic Sciences p. 91 (Aug. 1992)

Societies: The Japan Society for Analytical Chemistry / Japanese Society of Soil and Plant Nutrition / Japan Association for Quaternary Research

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MATSUURA Tsuneo

Born: 1954

Laboratory: Traffic Safety Section

Title: Senior Researcher

Research field and theme:

Road Accident Analysis (J-04 / P-05 / X-01)

Drivers' Attitude toward Safe Driving (J-04 / P-05 / X-01)

Driver Behaviour (J-04 / P-05 / X-01)

Papers:

Proceedings of the 22nd International Congress of Applied Psychology Vol. 1, pp. 324-325 (1992) / The Influence of Parked Vehicles upon Accidents Involving Pedestrian Crossing

Characteristics of Elderly Driver Accidents from the Point of the Risk and the Possibility of Avoidance of the Risk. / Koutsuu Sinrigaku Kenkyuu (Japanese Journal of Traffic Psychology) Vol. 7, p. 1-11 (in Japanese) (1991)

Driving Behaviours of Aged Drivers in Vehicle Following / Kagaku-

keisatsu-kenkyuujo Houkou (Reports of the National Research Institute of Police Science) Vol. 33-1, pp. 23-29 (in Japanese) (Jan. 1992)

Societies: The Japanese Association of Traffic Psychology / The Japanese Psychological Association / The Japan Association of Applied Psychology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986

MIYAKE Buntaro

Born: 1940

Laboratory: First Medico-legal Section

Title: Head of First Medico-legal Section

Higher education: Doctor of Medicine

Research field and theme:

Discrimination of human hairs by the differences of individual hair proteins (E-06 / F-09)

Discrimination of human hairs by DNA typing (E-06)

Papers:

A genetic electrophoretic variant of high-sulfur hair proteins for forensic hair comparisons. I. / Japanese Journal of Legal Medicine Vol. 43, No. 1, pp. 1-8 (1989)

A genetic electrophoretic variant of high-sulfur hair proteins for forensic hair comparisons. II. / Japanese Journal of Legal Medicine Vol. 43, No. 1, pp. 9-15 (1989)

The anti-N lectin of Vicia Unijuga and its application to blood grouping of blood stains / Report of National Research Institute of Police Science Vol. 34, No. 3, pp. 15-23 (in Japanese) (1981)

Societies: Medico-Legal Society of Japan / Japanese Electrophoresis Society

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MIYASAKA Sachio

Born: 1955

Laboratory: First Medico-Legal Section

Title: Senior Researcher

Higher education: Master of Science

Research field and theme:

Study on Personal Identification of Skeletal Remains (F-01 / E-01)

Immunohistochemistry of ABH Blood Group Substances in Human Tissues (E-05)

Papers:

The ABO Blood Grouping of a Minute Hair Sample by the Immunohistochemical Technique / Forensic Science International Vol. 34, pp. 85-98 (1987)

Immunohistochemical Demonstration of ABH Blood Group Antigens in the Putrefied and Dried Skin Fragments / Proceedings of the First International Symposium, Advance in Legal Medicine pp. 269-271 (1990)

The Present and Future of Facial Reconstruction in Forensic Science / Baiomekanizumu Gakkaishi (Journal of the Society of Biomechanisms) Vol. 14, No. 4, pp. 207-215 (in Japanese) (Nov. 1990)

Societies: Japanese Association of Anatomists / The Medico-Legal Society of Japan / Clinical Electron Microscopy society of Japan

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Phone / Ext.: 03-3261-9986 / 252 **Fax:** 03-3221-1245

MIZUNO Natsuko

Born: 1966

Laboratory: Second Medico Legal Section

Title: Researcher

Research field and theme:

Forensic Application of DNA Typing to Biological Evidence (E-04)

/ E-06)

Papers:

Isolation of Sperm DNA from Mixed Stains of Seminal Fluid and Vaginal Secretion, and DNA Typing of MCT118 and HLA DQ α Locus of the Sperm DNA by PCR Amplification method / Kakeiken-Houkoku Vol. 45, No. 2, pp. 84-95 (in Japanese) (May 1992)

Societies: The Medico-Legal Society of Japan / The Japanese Society of Veterinary Science

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

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MORI Kenji

Born: 1967

Laboratory: Traffic Regulation Section

Title: Researcher

Research field and theme:

Traffic flow characteristics (P-01 / P-02 / P-05)

Papers:

Gap-Acceptance Characteristics of Right-Turning Vehicles at Signalized Intersections / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 33, No. 2, pp. 16-25 (in Japanese) (July, 1992)

Societies: Japan Society of Traffic Engineers / Japan Society of Civil Engineers / The City Planning Institute of Japan

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 453 **Fax:** 03-3261-9986/219

MURATA Takahiro

Born: 1941

Laboratory: TRAFFIC DIVISION

Title: DIVISION DIRECTOR

Higher education: DOCTOR OF ENGINEERING

Research field and theme:

TRAFFIC SAFETY / TRAFFIC MANAGEMENT (P-02)

Papers:

JAPAN'S STRUGGLE FOR TRAFFIC ACCIDENT REDUCTION / TRANSPORTATION RESEARCH Vol. 23A, No. 1, pp. 83-90, 1989
CREATION OF PEDESTRIAN STREET IN CITY CENTERS / TRANSPORTATION RESEARCH RECORD No. 683, 1978
RELATIONSHIP BETWEEN BUDGET FOR TRAFFIC CONTROL DEVICES AND TRAFFIC ACCIDENT / REPORTS of the National Research Institute of Police Science Vol. 30, No. 1, pp. 54-57, 1989

Societies: Japan Society of Civil Engineers / Association of Traffic Engineers, Japan

Awards: TRAFFIC ENGINEERING ASSOCIATION'S PRIZE FOR THE BEST THESIS, 1988

Phone / Ext.: 03-3261-9986 / 440 **Fax:** 03-3261-9986/219

OHKI Hiroshi

Born: 1936

Title: First Forensic Science Department Deputy Director of Department

Research field and theme:

Studies of forensic identification method for physical evidence (C-03 / C-04 / C-05)

Papers:

APPLICATION OF THE GAS CHROMATOGRAPHY TO THE ANALYSIS OF ORGANOPHOSPHORUS, ORGANOCHLORINE INSECTICIDES / REPORTS of the National Research Institute of Police Science, Vol. 19, pp. 31-34 (1966)
PHYSICO-CHEMICAL STUDY OF LATENT FINGERPRINT (1) ULTRAVIOLET ABSORPTION AND FLUORESCENCE OF HUMAN EPIDERMAL SECRETION / ibit. Vol. 23, pp. 33-40 (1970)

A STUDY ON THE CAUSE OF DEATH BY THINNER-INHALATION (1) CONSTITUENT OF COMMERCIAL LAQUER THINNERS AND

ANALYTICAL METHOD BY GASCHROMATOGRAPHY / ibit., Vol. 24, pp. 173-180 (1971)

Societies: The Japanese Association of Criminology / Japanese Association of Forensic Toxicology / The Pharmaceutical Society of Japan / The chemical Society of Japan / Japanese Radioisotope Association / International Association for Identification

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OHMORI Takeshi

Born: 1963

Laboratory: First Chemistry Section

Title: Technical Official

Research field and theme:

Study of metabolism of phenethylamine type hallucinogens (F-05)

Papers:

Analysis of Phenethylamine hallucinogens 3, Analysis of 3, 4, 5-trimethoxyamphetamine and its metabolites / Kagakukeisatsu kenkyusyo Houkoku (Reports of the National Research Institute of Police Science) Vol. 45, in printing (in Japanese)

Societies: The Pharmaceutical Society of Japan / The Japanese Biochemical Society / Japanese Association of Forensic Toxicology

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Phone / Ext.: 03-3261-9986 / 272 **Fax:** 03-3261-9986

OHTA Hikoto

Born: 1965

Laboratory: Second Chemistry Section

Title: Researcher

Research field and theme:

Study on the chemical analysis of natural toxins (F-05 / C-05 / C-03)

Analytical and toxicological study on toxic gases and volatile substances (F-05 / C-03 / O-02)

Study on the systematic analysis of pesticides (F-05 / E-06 / O-02)

Societies: The Pharmaceutical Society of Japan / The Chemical Society of Japan / Japanese Association of Forensic Toxicology

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Phone / Ext.: 03-3261-9986 / 282 **Fax:** 03-3221-1245

SAITOH Naoki

Born: 1947

Laboratory: National Research Institute of Police Science

Title: Senior Researcher

Research field and theme:

Fine structures of X-ray fluorescence spectra, Numerical resolution enhancement in X-ray fluorescence spectroscopy (B-14 / B-15)

Image Processing and Analyzing (M-05)

Papers:

Resolution Enhancement for Cu K α Emission of Y-Ba-Cu-O Compounds / Advances in X-ray Analysis Vol. 32, pp. 155-165 (1989)

A New Approach to Derivative Deconvolution / Chemometrics and Intelligent Laboratory Systems Vol. 6, pp. 291-299 (June 1989)

Data Processing in X-ray fluorescence spectroscopy-1. A Smoothing method using B-splines / Spectrochimica Acta Vol. 38B, No. 10, pp. 1277-1285 (1983)

Societies: The Physical Society of Japan / The Institute of Electronics, Information and Communication Engineers

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 344 **Fax:** 03-3221-1245

SAITO Takeshi**Born:** 1945**Laboratory:** Traffic Regulation Section**Title:** Head**Research field and theme:**

Traffic Flow Simulation (K-05 / O-02 / P-02)

Traffic Signal Control (K-05 / M-02 / P-02)

Road Traffic Capacity (K-05 / P-01 / P-02)

Papers:

Streets Traffic Simulation Models (MICSTRAN-I and MACSTRAN-I) / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 16, No. 1, pp. 1-16 (in Japanese) (Mar. 1975)

Effects of Various Traffic Conditions on Signalized Intersection Capacity / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 21, No. 1, pp. 1-12 (in Japanese) (Jan. 1980)

A New Signal Control for Avoidance of Being Caught in Dilemma Zone / Reports of the National Research Institute of Police Science (Research on Traffic Safety and Regulation) Vol. 32, No. 2, pp. 1-13 (in Japanese) (Nov. 1991)

Societies: Japan Society of Traffic Engineers / The City Planning Institute of Japan / The Institute of Electrical Engineers of Japan / The Japan Society for Simulation Technology**Address:** National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan**Phone / Ext.:** 03-3261-9986 / 451 **Fax:** 03-3221-1245**SAKAI Ikuko****Born:** 1946**Laboratory:** Second Medico Legal Section**Title:** Senior Researcher**Research field and theme:**

Forensic Application of DNA Typing to Biological Evidence Samples (E-04 / E-05 / E-06)

Papers:

An Improved Method for DNA Isolation from Human Bloodstains and Typing of the Isolated DNA Using Single Locus VNTR Probes / Kagakukeisatsukenkyujo Houkoku Vol. 44, pp. 36-49 (Feb. 1991)

DNA Analysis Using Single Locus VNTR Probes and its Application to the Individualization of Human Bloodstains / Proceedings of the First International Symposium Advances in Legal Medicine pp. 462-464 (Oct. 1990)

Association of Rh₀(D) Antigenic Activity with Membrane Protein of Human Erythrocytes / ACTA Haematologica Japonica Vol. 46, No. 7, pp. 1414-1419 (Dec. 1983)**Societies:** The Medico-Legal Society of Japan / The Japanese Biochemical Society / The Pharmaceutical Society of Japan**Address:** National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan**Phone / Ext.:** 03-3261-9986 / 261 **Fax:** 03-3261-9986/219**SATO Hajime****Born:** 1950**Laboratory:** Second Medico Legal Section**Title:** Head**Research field and theme:**

Forensic Application of DNA Typing to Biological Evidence Samples (E-04 / E-05 / E-06)

Forensic Hair Identification (E-05 / E-10 / F-01)

Papers:

Forensic Hair Identification / Forensic Science Progress, Vol. 2, pp. 47-166 (1988)

Morphological Comparison of the Cross Section of the Human and Animal Hair Shafts by Scanning Electron Microscopy / Scanning Electron Microscopy, 1982-I, pp. 115-125 (1982)

Odorous Material Detection and Approach to its Discrimination by Semiconductor Gas Sensors / Sensors and Materials, Vol. 4, No. 1, pp. 41-51 (1992)

Societies: The Medico-Legal Society of Japan / The Japanese Society of Veterinary Science / The Japanese Society of Electron Microscopy**Address:** National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan**Phone / Ext.:** 03-3261-9986 / 261 **Fax:** 03-3261-9986/219**SEKI Yoko****Born:** 1957**Laboratory:** Document Examination Section**Title:** Researcher**Higher education:** Master of Sociology**Research field and theme:**

Handwriting Examination Using Image Processing (X-01 / M-05)

Analysis of Writing Behavior (X-01 / F-02)

Optical Analysis of Color Materials (X-01 / W-02 / M-05)

Papers:

The Relation between the Correct Ratio of Handwriting Identification and the Number of Strokes of Kanji Characters / Proceedings of the 22nd International Congress of Applied Psychology Vol. 2, pp. 142-143 (1992)

Misused Kanji Characters Observed in Handwritten Words / Reports of the National Research Institute of Police Science Vol. 45, No. 1, pp. 46-53 (in Japanese) (Feb. 1992)

Development of Obliterated Characters by the Microcomputer-Based Image Processor / Reports of the National Research Institute of Police Science Vol. 41, No. 2, pp. 120-127 (in Japanese) (May 1988)

Societies: The Japanese Association of Educational Psychology / The Mathematical Linguistic Society of Japan**Address:** National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan**Phone / Ext.:** 03-3261-9986 / 313 **Fax:** 03-3221-1245**SEKIGUCHI Kazumasa****Born:** 1967**Laboratory:** Second Medico Legal Section**Title:** Researcher**Research field and theme:**

Forensic Application of DNA typing to Biological Evidence (E-04 / E-06)

Societies: The Medico-Legal Society of Japan / The Molecular Biology Society / Japan Society for Bioscience, Biotechnology and Agrochemistry**Address:** National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan**Phone / Ext.:** 03-3261-9986 / 261 **Fax:** 03-3261-9986/219**SETA Sueshige****Born:** 1936**Laboratory:** First Forensic Science Division**Title:** Director, First Forensic Science Division**Higher education:** Doctor of Agriculture**Research field and theme:**

Study on Personal Identification of Skeletal Remains (F-01 / E-01)

Histopathological Study on Poisonous Materials (E-05 / F-06)

Forensic Analysis of Human Head Hair (E-05 / E-10 / F-01)

Papers:

Forensic Hair Identification / Forensic Science Progress, Vol. 2, pp. 47-166 (1988)

SEM/EDX Analysis of Inorganic Elements in Human Scalp Hairs With Special Reference to the Variation with Different Locations on the Head / J. of Scanning Electron-microscope, Vol. 14, pp. 127-140, 1982

Acute Oral Toxicity and Acute Irritation Test to Skin and Eye of Sodium Chlorite / Reports of National Research Institute of Police Science, Vol. 44, pp. 7-22, 1991 (in Japanese)

Societies: Medico-Legal Society of Japan / Jap. Assoc. of Anatomists / Jap. Soc. of Veterinary Science / Electron

Microscopy Soc. of Japan / Clinical Electron Microscopy Soc. of Japan / Jap. Association of Forensic Toxicology

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Phone / Ext.: 03-3261-9986 / 240 **Fax:** 03-3221-1245

SETO Yasuo

Born: 1957

Laboratory: Second Chemistry Section

Title: Senior Researcher

Higher education: Doctor of Agriculture

Research field and theme:

Analytical and toxicological study on toxic gases and volatile substances (F-05 / C-03 / O-02)

Study on the systematic analysis and metabolism of pesticides (F-05 / E-06 / O-02)

Study on the chemical analysis of natural toxins (F-05 / C-05 / C-03)

Papers:

Structure-activity relationship of reversible cholinesterase inhibitors including paraquat / Archives of Toxicology Vol. 62, pp. 37-40 (1988)

Determination of blood cyanide by head-space gas chromatography with nitrogen-phosphorus detector and using megabore capillary column GS-Q / Analytica Chimica Acta (1993) (in Printing)

Size fractionation of oligosaccharides by liquid chromatography on a cation-exchange column / Journal of Chromatography Vol. 464, pp. 323-331 (1989)

Societies: The Pharmaceutical Society of Japan / Japanese Association of Forensic Toxicology / The Japanese Biochemical Society

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SHINOHARA Toshiaki

Born: 1935

Laboratory: Identification Center, National Research Institute of Police Science

Title: Director of Identification Center

Higher education: Doctor of Agricultural Science

Research field and theme:

Analytical and toxicological Studies on Environmental Poisonings (F-05 / E-06 / O-02)

Papers:

In vitro inhibition of acetylcholinesterase by paraquat / Agricultural Biological Chemistry Vol. 50, pp. 255-256 (1986)

Preparation of homogeneous sample solution for the determination of chloroform in tissue by headspace gas chromatography / EISEI KAGAKU Vol. 34, pp. 179-183 (1988) (in Japanese)

Sugar composition analysis of a Con A-binding glycoprotein isolated from the Novikoff hepatoma cell surface / Agricultural Biological Chemistry Vol. 50, pp. 2127-2129 (1986)

Societies: Pharmaceutical Society / Biochemical Society / TIAFT / Agricultural Chemical Society

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 510

SUGITA Ritsuko

Born: 1963

Laboratory: Third Chemistry Section

Title: Researcher

Higher education: Master of Science

Research field and theme:

Application of Mineralogy and Petrology to Forensic Soil Discrimination (C-07 / X-01 / D-03)

Studies on Forensic Scientific Examination of Trace Evidence under Microscopes (X-01)

Papers:

Discrimination of Soil Samples by the Color Comparison / Kagakukeisatsu Kenkyusho Hokoku (Reports of the National Research Institute of Police Science) Vol. 45, No. 3, pp. 103-109 (Aug. 1992)

Application of Instrumental Analysis to Trace Physical Evidence / Proceedings of the 11th Australian & New Zealand International Symposium on the Forensic Sciences p. 91 (Aug. 1992)

Societies: Geological Society of Japan / The Mineralogical Society of Japan / Japan Association for Quaternary Research

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Phone / Ext.: 03-3261-9986 / 293 **Fax:** 03-3221-1245

SUZUKI Akihiro

Born: 1934

Laboratory: Psychology Section

Title: Head

Research field and theme:

Criminal Psychology-Detection of Deception (X-01)

Papers:

Polygraph Subject's Perceptions of Examiner Competence and Personal Attributes and Their Relationship to the Outcomes of Polygraph Examinations / Polygraph Vol. 11, pp. 143-151, 1982

An analysis of Responses on Polygraph; A Diminution of Responses / Polygraph Vol. 10, pp. 1-7, 1981

Societies: Society for Psychophysiological Research / Japanese Psychological Association

Phone / Ext.: 03-3261-9986 / 321

SUZUKI Shingo

Born: 1945

Laboratory: Juvenile Guidance Section

Title: Head

Higher education: Master of Arts

Research field and theme:

Child Development and Juvenile Delinquency (X-01)

Development of Delinquent Career

Police-Citizen Relations

Papers:

A study on the Relationship between Coping with Developmental Tasks and Deviant Behavior among Junior and Senior High School Students / Kagakukeisatukenkyushohouoku Vol. 26, No. 1, pp. 25-45 (in Japanese) (Jul. 1985) (Reports of the National Research Institute of Police Science)

A Study on the Relationships between Psychological Stress and Deviant Behavior among Junior High School Students / Kagakukeisatukenkyushohouoku Vol. 29, No. 1, pp. 27-43 (in Japanese) (Jul. 1988) (Reports of the National Research Institute of Police Science)

Characteristics and the Police's Treatment of Initial-type Delinquency / Hanzashakagakukenkkyu (Japanese Journal of Sociological Criminology) No. 15, pp. 50-65 (in Japanese) (Oct. 1990)

Societies: Japanese Association of Criminal Psychology / Japanese Association of Sociological Criminology

Address: National Research Institute of Police Science, 6, Sanban-cho, Chiyoda-ku, Tokyo 102, Japan

Phone / Ext.: 03-3261-9986 / 422

SUZUKI Shinichi

Born: 1956

Laboratory: Third Chemistry Section

Title: Senior Researcher

Higher education: Doctor of Medicine

Research field and theme:

Studies on the systematic identification of fibers — Application of microspectrophotometry to the discrimination of fibers (C-03 / T-07 / T-09)

Papers:

Identification of a single fiber 3. Discrimination of black fibers by multi-wavelength detection method of high performance liquid

chromatography / Kagaku Keisatsu Kenkyusho Houkoku (in Japanese) in printing

Identification of a single fiber 2. Analysis of dyestuffs in single fibers by high performance liquid chromatography / Kagaku Keisatsu Kenkyusho Houkoku Vol. 45, No. 1, pp. 36-45 (in Japanese) (Feb. 1992)

Analysis of dyestuffs in synthetic single fibers by high performance liquid chromatography with multi-wave length detection method / Analytical Sciences Vol. 7, supplment, pp. 117-120 (Sep. 1991)

Societies: The Japan Society for Analytical Chemistry / Pharmaceutical Society of Japan / Japanese Association of forensic Toxicology

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Phone / Ext.: 03-3261-9986 / 292 **Fax:** 03-3221-1245

SUZUKI Takao

Born: 1939

Laboratory: Acoustics Section

Title: Head

Research field and theme:

Voice Identification method by Listening (B-05 / K-02)

Application study for Automatic Voice Identification System (B-05 / K-02)

Construction of System for Voice Registration and Retrieval of Voice (B-05 / K-02)

Papers:

Observation of formant structure in voice spectrograms of two speakers over long interval of time / Journal of the Phonetic Society of Japan. Vol. 167 (1981)

LPC cepstrum coefficients of twins voices / Report of NRIPS Vol. 35 (1982)

Euclid distance of formant frequencies of inter-twins in five Vowels / Report of NRIPS Vol. 39 (1986)

Societies: Acoustical Society of Japan / The Institute of Electronics, Information and Communication Engineerings / Phonetic Society of Japan

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Phone / Ext.: 03-3261-9986 / 351

SUZUKI Yasuhiro

Born: 1964

Laboratory: Third Chemistry Section

Title: Researcher

Higher education: Master of Science

Research field and theme:

Application of Trace elements Analysis to Forensic Material Discrimination (C-03 / X-01)

Papers:

Rate of back-extraction of tris (trifluoro acetylacetonato) and tris (trifluoro acetylacetonato) Chromium (III) from carbon tetrachloride into aqueous acid perchlorate solutions / Bulletin of Chemical Society of Japan Vol. 65, pp. 415-420 (1992)

Application of Instrumental Analysis to Trace Physical Evidences / Proceedings of the 11th Australian & Newzeeland International Symposium on the Forensic Sciences p. 91 (Aug. 1992)

Societies: The Japan Society for Analytical Chemistry

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Phone / Ext.: 03-3261-9986

TAKAICHI Kenichi

Born: 1941

Laboratory: Identification Laboratory

Title: Senior Researcher

Research field and theme:

Instrumental analysis on forensic science (C-03)

Papers:

Photochemical Reaction of 2,3-Dichloro-1,4-naphthoquinone (Dichlone) in the Presence of Oxygen / Agricultural Biological Chemistry, Vol. 43, No. 7, pp. 1387-1394, 1979

Fluorimetric Determination of MMAN as a Sensitizer in Water-gel Explosives by HPLC Using Pre-column Derivatization with MAVF / Proceeding of International Symposium on Analysis and Detection of Explosives, Jerusalem, Israel, 1993 in printing

Societies: The Mass Spectroscopy Society of Japan / Japanese Association of Forensic Toxicology

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Phone / Ext.: 03-3261-9986 / 513 **Fax:** 03-3261-9986/219

TAKASAWA Noriyoshi

Born: 1946

Laboratory: Document Examination Section

Title: Senior Researcher

Higher education: Doctor of Philosophy

Research field and theme:

Handwriting examination (X-01)

Document examination using photographic technique (W-02)

Psychology of motor learning (E-12)

Papers:

On the validity of writer identification by the statistical test of mean difference / Reports of National Research Institute of Police Science Vol. 39, No. 1, pp. 1-5 (in Japanese) (Feb. 1986)

An examination of the relationship between whole structure and subcomponent structure of handwritten chinese character based on the result of writer identification / Reports of National Research Institute of Police Science Vol. 42, No. 1, pp. 11-17 (in Japanese) (Feb. 1989)

The effect of mental set on readiness potential / Japanese Journal of Physiological Psychology and Psychophysiology Vol. 7, No. 1, pp. 1-10, (in Japanese) (June 1989)

Societies: Japanese Psychological Association / Japanese Society for Physiological Psychology and Psychophysiology

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Phone / Ext.: 03-3261-9986 / 311 **Fax:** 03-3221-1245

TAKUBO Nobuaki

Born: 1962

Laboratory: Automotive Engineering Section

Title: Researcher

Higher education: Master of Engineering

Research field and theme:

Traffic Accident Analysis (J-04 / P-05 / X-01)

Characteristics of Drivers' Behavior on Driving Several Vehicles (J-04 / P-05 / X-01)

Analysis and Modeling of Driver-Vehicle System (J-04 / P-05 / X-01)

Papers:

Driver Model Using Neural Network System / Proceedings of the 6th International Pacific Conference of Automotive Engineering, Vol. 2 (Oct. 1991)

Relation of Road Alignment to Traffic Accidents / Reports of National Research Institute of Police Science (Research on Traffic Safety and Regulation), Vol. 32, No. 2-Vol. 33, No. 1 (in Japanese) (Nov. 1991-Feb. 1992)

Influence of Weather Factors on Safe Driving of Motor Vehicles / Reports of National Research Institute of Police Science (Research on Traffic Safety and Regulation), Vol. 28, No. 1-Vol. 30, No. 1 (in Japanese) (Jan. 1987-Jan. 1989)

Societies: Society of Mechanical Engineers / Soc. of Automotive Engineers / Soc. of Traffic Engineers

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