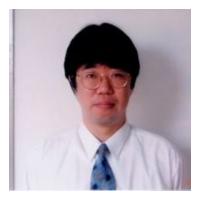


U-SEARCH Ube National College of Technology Seeds from Academic Research Challenge

Mechanical Engineering > UCHIBORI Akihiko



UCHIBORI Akihiko

Organization Mechanical Engineering

Position Associate Professor

Academic Title Doctor(Engineering)

Research Fields Information Processing, Robotics

<< Research Subjects >>

- 1. Autonomous robot, Intelligent robot
- 2. Control and measurement for pneumatic equipment
- 3. Optimization of software agent using Genetic Algorithms

<< Academic Activities >>

Papers and Notes

- Kanya TANAKA, Akihiko UCHIBORI, Kazuo HARUYAMA, Yuki NISHIMURA, Shigeru UCHIKADO, Faridah Abd Rahman: "Safety Confirmation System Using Ultrasonic Radar for Elderly People Living Alone", The transactions of the Institute of Electrical Engineers of Japan. D, A publication of Industry Applications Society 131(2), 202-207, (2011)
- Kanya TANAKA, Yusuke MURATA, Yuki NISHIMURA. Abd Rahman Faridah, Masato OKA, Akihiko UCHIBORI: "Variable Gain Type PID Control using PSO for Ultrasonic Motor", Journal of The Japan Society of Applied Electromagnetics and Mechanics, Vol.18, No.3, pp.294-299 (2010)
- 3. Kazuo HARUYAMA, Kanya TANAKA, Shigeki KOBAYASHI, Katsunori YASUOKA, Akihiko UCHIBORI, Masato OKA: "Development of Getting Up Detection and Report Device using Power Line Communication and Mat-Sensor", The transactions of the Institute of Electrical Engineers of Japan. D. A publication of Industry Applications Society 126(11), 1507-1513, (2006)
- Kanya TANAKA, Masato OKA, Akihiko UCHIBORI, Youichirou IWATA, Hiroshi ORIOKA: "Precice Poision Control of an Ultrasonic Motor Using the PID Controller Combined with NN", Electorical Engineering in Japan, Vol.146, No.3, pp.46-54 (2004)
- Masato OKA, Kanya TANAKA, Akihiko UCHIBORI, Akihiro NAGANAWA, Hiroshi MORIOKA, Yuji WAKASA: "Precise Position Control of the Ultrasonic Motor Using the Speed Compensation Type NN Controller", Transactions of the The Japan Society of Mechanical Engineers (C), Vol.70, No.694, pp.171–177 (2004)
- 6. <u>Kazuhiro Takeshita</u>, <u>Akihiko Uchibori</u>, <u>Yoshiyuki Mizukami</u>, <u>Taiji Satho</u>, <u>Kanya Tanaka : " A Communication System for ALS patients using eye blink ", International Journal of Applied Electromagnetics and Mechanics 18, pp.3-10 (2003)</u>

Presentations

- Masato Oka, Kanya Tanaka, Akihiko Uchibori, Youichirou Iwata, Hiroshi Morioka, Toshitaka Oki: "Precise Position Control of Ultrasonic Motor Using PID Control with NN", Proceedings of the International Symposium on Advanced Control of Industrial Processes, Kumamoto(Japan), Jun. 9-12 (2002)
- Toshitaka Oki, Kanya Tanaka, Toru Yamamoto, Akihiko Uchibori, Masato Oka: "IEEE A Design of Non-linear Electropneumatic Servo Systems by Using Neural-net Based Linearlizer with Off-line Learning Algorithm", Proceedings of the International Joint Conference on Neural Networks, Honolulu (USA), May. 12-17 (2002)
- 3. Akihiko Uchibori, Masato Oka, Taiji Satoh, Kanya Tanaka: "The Convergency of GA for Neural Network", Proceedings of International Symposium on Artificial Life and Robotics, pp.757-760, Kumamoto(Japan), Jan. (2000)
- Kanya Tanaka, Yuji Yamada, Taiji Satoh, Akihiko Uchibori, Shigeru Uchikado: "Model Reference Adaptive Control with Multi-Rate Type Neural Network for Elector-Pneumatic Servo System", Procedings of the 1999 IEEE International Conference on Control Applications, Aug. (1999)
- 5. Taiji Satoh, Akihiko Uchibori, Kanya Tanaka: "Artificial Life System for Optimization of Nonconvex Functions", 1999

- International Joint Conference on Neural Networks, Jul. (1999)
- 6. Akihiko UCHIBORI, Keiichi MIYAJIMA, Yasunari SHIDAMA, Hiroo YAMAURA: "The Convergency of GA for Fuzzy Logic", Proc. of SECOND INTERNATIONAL CONFERENCE ON KNOWLEDGE-BASED INTELLIGENT ELECTRONIC SYSTEMS (KES'98), pp. 126-131, Adelaide (Australia), Apr. (1998)
- 7. Akihiko UCHIBORI, Hiroshi YAMAZAKI, Yasunari SHIDAMA, Hiroo YAMAURA, Hiromi KOBAYASHI: "The Convergency of Optimizing Fuzzy Logic with GA", Proc. of the First Asia-Pacific Conference on Simulated Evolution and Learning (SEAL'96), S2-3 pp.91-97, (South Korea), Nov. (1996)
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- Akihiko UCHIBORI, Y.SHIDAMA, Y. OSHITANI, H. YAMAURA, K. YUDA: "A Study of the Convergency of GA For Fuzzy Logic", Proc. of the 1st Magneto-Electronics International Symposium (NAGANO magel '94), pp. 457-460, Nagano (Japan), Nov.(1994)
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