UBE
宇部工業高等専門学校

[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

1. [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)](#)
2. [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)](#)
4. [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)](#)
5. [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. [Kazuhiro Takeshita, Akihiko Uchibori, Yoshiyuki Mizukami, Taiji Satho, Kanya Tanaka : " A Communication System for ALS patients using eye blink ", International Jounal of Applied Electromagnetics and Mechanics 18, pp.3-10 (2003)](#)

Presentations

1. [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)](#)
2. [Toshitaka Oki, Kanya Tanaka, Toru Yamamoto, Akihiko Uchibori, Masato Oka : "IEEE A Design of Non-linear Electro-pneumatic 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 Seeds Robotics, pp.757-760, Kumamoto(Japan), Jan. (2000)](#)
4. [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)

8. Akihiko UCHIBORI, Hiroshi YAMAZAKI, Yasunari SHIDAMA, Hiroo YAMAURA : "An Optimizing Fuzzy Logic with Generic Algorithm", 1996 IEEE 3rd International Conference on Evolutionary Computation (ICEC'96) pp. 239-242,   (Japan), May. (1996)

9. 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)

10. Yasumasa YOSHITANI, Yasunari SHIDAMA, Akihiko UCHIBORI : "Sequential Compacctness of the Family of Fuzzy Membership Functions", Proc. of the 1st Magneto-Electronics International Symposium (NAGANO magel '94),   pp. 473-476, Nagano (Japan), Nov.(1994)