

Yoonseok Pyo, JSPS Research Fellow

Japan Society for the Promotion of Science (JSPS) Research Fellow at Kyushu University

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EXPERIENCE

JSPS Research Fellow at Kyushu University	April 2014 - Present (1 year 9 months)
Graduate Teaching Assistant at Kyushu University	April 2013 - Present (2 year 9 months)
Part time at Dongbu Robot	May 2011 - April 2014 (3 years)
Visiting Reporter at Monthly Robot	April 2010 - September 2011 (1 year 6 months)
Research Engineer at KIST	May 2009 - March 2010 (11 months)
Intern at National Instruments Korea	June 2008 - July 2008 (2 months)
Intern at ROBOTIS	February 2005 - August 2005 (7 months)

EDUCATION

Ph.D. Candidate, Advanced Information Technology, Kyushu University, Japan	2013 - Present
M.E., Advanced Information Technology, Kyushu University, Japan	2011 - 2012
B.E., Electronic Engineering, Kwangwoon University, Korea	2002 - 2009

AWARDS AND HONORS (7 awards out of 32 awards)

Best Oral Presentation Award at SI2012 Conference	2012
Best Poster Award at Korea Institute of Science and Technology	2009
1st Place at Japan 15th ROBO-ONE	2009
KOREA President Award at International Robot Contest IRC2008	2008
1st Place of Humanoid Part at ROBOGAMES2008 in USA	2008
KOREA MCIE Minister Award at ROBOTPIAD 2005	2005
KOREA MCIE Minister Award at Robot Universiade Festival 2005	2005

PUBLICATIONS

Books (4)

[B04] ROS Robot Programming, 詳説 ROS ロボットプログラミング (in Japanese)
Yoonseok Pyo, Ryo Kurazume, Yuuta Watanabe, Kurazume Laboratory,
E-Book (http://irvs.github.io/rosbook_jp), ISBN: 9784990873608, pp. 1-342, 2015.11.30

[B03] ROS Robot Programming, ROS 로봇 프로그래밍 (in Korean)
Yoonseok Pyo, Rubypaper, ISBN: 9791195149278, pp. 1-392, 2015.03.30

[B02] Let's start the robot programming using ROS, 로봇 프로그래밍 ROS 로 시작하자! (in Korean)
Yoonseok Pyo, E-Book, https://github.com/robotpilot/rosbook_kr, pp. 1-261, 2014.12.13

[B01] Application White Paper of Raspberry Pi, 라즈베리 파이 활용백서 (in Korean),
Yoonseok Pyo, Jaesang Lee, BJ Public, ISBN: 9788994774497, pp. 1-332, 2013.10.25

Journals (5)

[J05] Service Robot System with an Informationally Structured Environment,
Yoonseok Pyo, Kouhei Nakashima, Shunya Kuwahata, Ryo Kurazume, Tokuo Tsuji, Ken'ichi Morooka,
Tsutomu Hasegawa, Robotics and Autonomous Systems, Vol. 74, Part A, pp. 148-165, December 2015
<http://dx.doi.org/10.1016/j.robot.2015.07.010>

[J04] Immersive VR interface for informationally structured environment,
Yoonseok Pyo, Tokuo Tsuji, Yuuka Hashiguchi and Ryo Kurazume, Journal of the Robotics Society of
Japan, Vol.33, No.33, pp.651-654, 2015 (in Japanese)

[J03] An Informationally Structured Room for Robotic Assistance,
Tokuo Tsuji, Oscar Martinez Mozos, Hyunuk Chae, Yoonseok Pyo, Kazuya Kusaka, Tsutomu Hasegawa,
Ken'ichi Morooka and Ryo Kurazume, Sensors, Vol.15, No.4, pp. 9438-9465, 2015

[J02] Floor Sensing System Using Laser Reflectivity for Localizing Everyday Objects and Robot,
Yoonseok Pyo, Tsutomu Hasegawa, Tokuo Tsuji, Ryo Kurazume and Ken'ichi Morooka, Sensors,
Vol.14, No.4, pp. 7524-7540, 2014

[J01] Measurement of Moving Objects and Estimation of Human Behavior Using Floor Sensing System
in Daily Life Environment,
Tsutomu Hasegawa, Yoonseok Pyo, Masahide Tanaka, Tokuo Tsuji, Ken'ichi Morooka and Ryo
Kurazume, Journal of the Robotics Society of Japan, Vol.31, No.8, pp. 769-779, 2013 (in Japanese)

International Conference (8)

[IC08] Control Architecture for Service Drone in Informationally Structured Environment,
Ghallabi Farouk, Akihiro Kawamura, Yoonseok Pyo, Tokuo Tsuji, Ryo Kurazume 2015 IEEE/SICE
International Symposium on System Integration (SII 2015), Nagoya, Dec. 11-13, 2015

[IC07] Fourth-Person Sensing for a Service Robot,
Kazuto Nakashima, Yumi Iwashita, Yoonseok Pyo, Asamichi Takamine, Ryo Kurazume Proc. of IEEE
International Conference on Sensors 2015, pp.1110-1113, Nov. 1-4, 2015

[IC06] Immersive VR Interface for Informationally Structured Environment,
Yoonseok Pyo, Tokuo Tsuji, Yuuka Hashiguchi, Ryo Kurazume, IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2015), pp.-, July 7-11, 2015

[IC05] Motion Planing for Fetch-and-Give Task using Wagon and Service Robot,
Yoonseok Pyo, Kouhei Nakashima, Tokuo Tsuji, Ryo Kurazume, Ken'ichi Morooka, IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM2015), pp.-, July 7-11, 2015

[IC04] Fourth-person sensing for pro-active services,
Yumi Iwashita, Kazuto Nakashima, Yoonseok Pyo, Ryo Kurazume, Fifth International Conference on Emerging Security Technologies (EST-2014), 2014.09

[IC03] Measurement and Estimation of Indoor Human Behavior of Everyday Life Based on Floor Sensing with Minimal Invasion of Privacy,
Yoonseok Pyo, Tsutomu Hasegawa, Masahide Tanaka, Tokuo Tsuji, Ken'ichi Morooka and Ryo Kurazume, Proceeding of the IEEE International Conference on Robotics and Biomimetics (ROBIO), pp. 2170-2176, 2013.12

[IC02] The Intelligent Room for Elderly Care,
Oscar Martinez Mozos, Tokuo Tsuji, Hyunuk Chae, Shunya Kuwahata, Yoonseok Pyo, Tsutomu Hasegawa Ken'ichi Morooka, and Ryo Kurazume, 5th International Work-conference on the Interplay between Natural and Artificial Computation, pp. 103-112, 2013.06

[IC01] High-precision three-dimensional laser measurement system by cooperative multiple mobile robots,
Yongjin Jeong, Yoonseok Pyo, Yumi Iwashita, Tsutomu Hasegawa and Ryo Kurazume, 2012 IEEE/SICE International Symposium on System Integration (SII2012), pp. 198-205, 2012.12

Domestic Conference (5 papers out of 21 papers)

[DC05] Development of ROS-TMS viewer using immersive VR interface Oculus Rift,
Yoonseok Pyo, Tokuo Tsuji, Yuuka Hashiguchi, Ryo Kurazume, Proceedings of the 2015 JSME conference on Robotics and Mechatronics, ROBOMECH2015, 1A1-N07, 2015.05

[DC04] Robot service architecture based on room condition estimation by distributed sensors,
Yoonseok Pyo, Akihiro Nagata, Kouhei Nakashima, Shunya Kuwahata, Tokuo Tsuji, Ken'ichi Morooka, Ryo Kurazume, Tsutomu Hasegawa, Proceedings of the 2014 JSME conference on Robotics and Mechatronics, ROBOMECH2014, 1P2-H02, 2014.05

[DC03] Online Motion Planning for Service Robot using Informationally Structured Environment Architecture,
Yoonseok Pyo, Tokuo Tsuji, Yuuka Hashiguchi, Akihiro Nagata, Kouhei Nakashima, Ryo Kurazume, Tsutomu Hasegawa , Ken'ichi Morooka, Robotics Symposia 2014, pp. 624-630, 2014.03

[DC02] Measurement of object and robot pose using the reflectance of the laser range finder,
Yoonseok Pyo, Masahide Tanaka, Tsutomu Hasegawa, Tokuo Tsuji, Ken'ichi Morooka, Ryo Kurazume, Annual conferences organized by the System Integration (SI) Division of the Society of Instrument and Control Engineers (SICE), SI2012 1H4-7, pp. 633-636, 2012.12

[DC01] Target designator and error correction for the mobile robot using skeleton information of human,
Yoonseok Pyo, Tsutomu Hasegawa, Tokuo Tsuji, Ken'ichi Morooka, Ryo Kurazume, The 28th Annual Conference of the Robotics Society of Japan, RSJ2011, 3O1-7, 2011.09