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Technical Program for Monday May 21, 2012

MoA1		Lecture Hall
Manipulation in Human Environments (Regular Session)		
09:20-09:40		MoA1.1
<i>Benchmarking Mobile Manipulation in Everyday Environments</i> , pp. 1-6. Stueckler, Joerg (Univ. of Bonn), Behnke, Sven (Univ. of Bonn)		
09:40-10:00		MoA1.2
<i>Picking up Operation of Thin Objects by Robot Arm with Two-Fingered Parallel Soft Gripper</i> , pp. 7-12. Yoshimi, Takashi (Shibaura Inst. of Tech.), Iwata, Naoyuki (Shibaura Inst. of Tech.), Mizukawa, Makoto (Shibaura Inst. of Tech.), Ando, Yoshinobu (Shibaura Inst. of Tech.)		
10:00-10:20		MoA1.3
<i>Online Intention Learning for Human-Robot Interaction by Scene Observation</i> , pp. 13-18. Awais, Muhammad (Bayreuth), Henrich, Dominik (Univ. of Bayreuth)		
MoB1		
Edutainment Robotics 1 (Regular Session)		
10:50-11:10		MoB1.1
<i>Involving and Training Public School Teachers in Using Robotics for Education</i> , pp. 19-23. Riedo, Fanny (EPFL), Freire, Mariza (EPFL), Bonani, Michael (EPFL), Mondada, Francesco (EPFL)		
11:10-11:30		MoB1.2
<i>A Programming Workshop Using the Robot "Thymio II": The Effect on the Understanding by Children</i> , pp. 24-29. Magenat, Stéphane (ETH Zürich), Riedo, Fanny (EPFL), Bonani, Michael (EPFL), Mondada, Francesco (EPFL)		
11:30-11:50		MoB1.3
<i>Analysis of Impact of an Annual Robotics Festival</i> , pp. 30-35. Riedo, Fanny (EPFL), Fink, Julia (Ec. Pol. Fédérale de Lausanne), Freire, Mariza (EPFL), Mondada, Francesco (EPFL)		
11:50-12:10		MoB1.4
<i>Gesture Motion Programming by Applying Robot Motion Hierarchy Structure for the Educational/Entertainment Robot Engkey</i> , pp. 36-39. Kim, Jaewoo (KAIST), Chun, Kyoung Soo (Korea Advanced Inst. of Science and Tech.), Kwon, Dong-Soo (KAIST)		

MoC1**Welcome** (Plenary Session)

14:00-14:15

MoC1

MoD1**Keynote 1** (Plenary Session)

14:15-15:15

MoD1.1

*Embodied and Social Robots and Their Societal Impact**.

Mainzer, Klaus (Tech. Univ. München)

MoE1**Social Impact and Liability** (Regular Session)

15:20-15:40

MoE1.1

Effect of Human Attributes and Type of Robots on Psychological Evaluation of Humanoids, pp. 40-45.

Kamide, Hiroko (Osaka Univ.), Mae, Yasushi (Osaka Univ.), Kawabe, Koji (Honda R&D Co., Ltd.), Shigemi, Satoshi (Honda R&D Co., Ltd.), Arai, Tatsuo (Osaka Univ.)

15:40-16:00

MoE1.2

Practical Evaluation of Service Robots for Support and Routine Tasks in an Elderly Care Facility, pp. 46-49.

Jacobs, Theo (Fraunhofer Inst. for Manufacturing Engineering and Automation), Graf, Birgit (Fraunhofer IPA)

16:00-16:20

MoE1.3

The Social Impact of a Systematic Floor Cleaner, pp. 50-53.

Gutmann, Jens-Steffen (Evolution Robotics Inc.), Culp, Kristen (Evolution Robotics), Munich, Mario Enrique (Evolution Robotics), Pirjanian, Paolo (Evolution Robotics)

16:20-16:40

MoE1.4

Anthropomorphic Language in Online Forums about Roomba, AIBO and the iPad, pp. 54-59.

Fink, Julia (Ec. Pol. Fédérale de Lausanne), Mubin, Omar (Ec. Pol. Federale de Lausanne (EPFL)), Kaplan, Frederic (Ec. Pol. Federale de Lausanne), Dillenbourg, Pierre (EPFL)

16:40-17:00

MoE1.5

German Civil Liability for Users and Manufactures of Robotic Transportation Systems, pp. 60-65.

Günther, Jan-Philipp (Univ. of Wuerzburg), Eck, Daniel (Univ. Wuerzburg)

Technical Program for Tuesday May 22, 2012

TuA1		Lecture Hall
Edutainment Robotics 2 (Regular Session)		
09:30-09:50		TuA1.1
<i>Cyber-Physical System for Training and Skill Transfer in Endovascular Intervention</i> , pp. 66-71. Tercero Villagran, Carlos Rafael (Nagoya Univ.), Kodama, Hirokatsu (Nagoya Univ.), Ooe, Katsutoshi (Nagoya Univ.), Shi, Chaoyang (Nagoya Univ.), Ikeda, Seiichi (Nagoya Univ.), Fukuda, Toshio (Nagoya Univ.), Arai, Fumihito (Nagoya Univ.), Negoro, Makoto (Fujita Health Univ.), Takahashi, Ikuo (Anjo Kosei Hospital)		
09:50-10:10		TuA1.2
<i>Strategic Play for a Pool-Playing Robot</i> , pp. 72-78. Nierhoff, Thomas (TU München), Heunisch, Kerstin (Tech. Univ. München), Hirche, Sandra (Tech. Univ. München)		
10:10-10:30		TuA1.3
<i>Humanoid Robot Painter Assisted by a Human</i> , pp. 79-82. Kose, Hatice (Univ. of Hertfordshire), GURPINAR, CEMAL (ISTANBUL Tech. Univ.), Alasag, Tolga (Istanbul Tech. Univ.)		
TuB1		
Navigation in Human Environments (Regular Session)		
11:00-11:20		TuB1.1
<i>Legible Robot Navigation in the Proximity of Moving Humans</i> , pp. 83-88. Kruse, Thibault (TU Munich, Germany), Basili, Patrizia (Univ. Clinic Munich, Center for Sensorimotor Res.), Glasauer, Stefan (Ludwig-Maximilian Univ.), Kirsch, Alexandra (Tech. Univ. München)		
11:20-11:40		TuB1.2
<i>Increasing Perceived Value between Human and Robots - Measuring Legibility in Human Aware Navigation</i> , pp. 89-94. Lichtenthaeler, Christina (Tech. Univ. München), Lorenz, Tamara (Ludwig-Maximilians-Univ. Munich), Karg, Michael (Tech. Univ. München), Kirsch, Alexandra (Tech. Univ. München)		
11:40-12:00		TuB1.4
<i>GPS-Compatible Indoor-Positioning Methods for Indoor-Outdoor Seamless Robot Navigation</i> , pp. 95-100. Sakamoto, Yoshihiro (Waseda Univ.), Ebinuma, Takuji (The Univ. of Tokyo), Fujii, Kenjiro (Hitachi Industrial Equipment Systems Co., Ltd), Sugano, Shigeki (Waseda Univ.)		
TuC1		
Social Awareness and Societal Impact of Robotics (Special Session)		
13:40-14:00		TuC1.1
<i>Collective Intentionality in Multi-Agent Systems*</i> . Misselhorn, Catrin (Univ. Stuttgart)		
14:00-14:20		TuC1.2
<i>Large-Scale Use of Robots and Meeting Risks with Learning Socio-Technical</i>		

Organization*.

Dodig-Crnkovic, Gordana (Mälardalen Univ.)

14:20-14:40

TuC1.3

*Daily Drones. Techno-Security and the Militarization of Everyday Life**.

Weber, Jutta (Univ. of Paderborn)

14:40-15:00

TuC1.4

*A Digital Machine's Limits and Possibilities to Be Moral and Emotional and Its Impact on Society**.

Bengez, Reinhard (TUM)

TuD1

Keynote 2 (Plenary Session)

15:30-16:10

TuD1.1

*Environment Perception as a Key Enabler for Advanced Robotic Applications**.

Lawitzky, Gisbert (Siemens AG)

TuE1

Face-To-Face Communication (Special Session)

16:15-16:35

TuE1.1

Towards Transferability of Theories on Prosocial Behavior from Social Psychology to HRI, pp. 101-103.

Gonsior, Barbara (Tech. Univ. München, Inst. of Automatic Control Eng), Buss, Malte (TU Muenchen), Wollherr, Dirk (Tech. Univ. München), Kühnlenz, Kolja (Tech. Univ. München), Buss, Martin (Tech. Univ. München)

16:35-16:55

TuE1.2

Development of an Integrated Multi-Modal Communication Robotic Face, pp. 104-105.

Pierce, Brennand (Tech. Univ. München), Kuratate, Takaaki (Tech. Univ. Munich), Maejima, Akinobu (TU Munich), Morishima, Shigeo (Waseda Univ.), Matsusaka, Yosuke (National Inst. of Advanced Industrial Science), Durkovic, Marko (Tech. Univ. München), Diepold, Klaus (Tech. Univ. Munich), Cheng, Gordon (Tech. Univ. Munich)

16:55-17:15

TuE1.3

Refined Human-Robot Interaction through Retro-Projected Robotic Heads, pp. 106-107.

Delaunay, Frédéric (Univ. of Plymouth), Belpaeme, Tony (Plymouth Univ.), de Greeff, Joachim (Univ. of Plymouth)