

P. Ravindra S. De Silva

CONTACT INFORMATION- JAPAN

Interactions and Communication Lab
Department of Computer Science & Engineering

Voice: +81-90-8471-8877

Fax: +81-532-44-6873

1-1 Hibarigaoka, Tempaku
Toyohashi 441-8580- JAPAN

E-mail: ravi@tut.jp

WWW: <http://www.icd.cs.tut.ac.jp/en/member.html>

CONTACT INFORMATION-SRI LANKA

No. 348/3c,
Nandasara Mawatha, Hokandara
North
Hokandara
SRI LANKA

Voice: +94 112742939

Fax: +94 112742939

E-mail: desilva.ravindra@gmail.com

RESEARCH INTERESTS

My research focuses on building embodied social skills as human-like social robot by using psychological, cognitive, and statistical approaches. The main focused is to utilize the minimalism design and communication media to design & develop variety of robotics platform. My other interests include socially assistive robot, artificial intelligence, interactive design and media, UI/UX design and mobile interactions, machine perception, and IOT (internet of things).

EDUCATION

University of AIZU, JAPAN

Ph.D in Computer Science & Engineering, 2006

University of AIZU, JAPAN

M.Sc in Computer Science & Engineering, 2003

University of Colombo, SRI LANKA

B.Sc (Hons) in Computer Science & Statistics, March, 2001

ACADEMIC EXPERIENCE

Toyohashi University of Technology, Japan

Assistant Professor

April, 2010 - present

Develop research objectives, preparing project proposals, supervising doctoral and master students, and teaching.

Toyohashi University of Technology, Japan

Research Fellow

December, 2009 - March, 2010

Develop research objectives, preparing project proposals, conduct individual & collaborative research projects, and supervise postgraduate research students

Toyota Institute of Technology, Japan

Research Fellow

October 2006 - November, 2009

All duties in robotic center, develop research objectives, preparing project proposals, conduct individual & collaborative research projects, and supervise postgraduate research students

Informatics Institute of Technology, Sri Lanka

Project Coordinator

April, 2001 - August, 2001

Establishes project work plan and calendar or schedules; monitors, reviews, and evaluates the progress.

HONORS AND AWARDS

Honorable mention demonstration award, Sociable Creatures for Child-Robot Interaction Studies, ACM/IEEE International Conference on Human-Robot Interaction, HRI'13, March 3-6, 2013, Tokyo, Japan. 2013.

Best robot design, Peepho: Towards A Future Social Eyepiece, The Fourth International Conference on Social Robotics (ICSR2012), (Springer's Lecture Notes in Artificial Intelligence), Chengdu, China.

Second prize for inaugural robot design competition, INAMO: Towards a Future Imaginary Navigator, The International conference on social robotic (Springer's Lecture Notes in Artificial Intelligence) November 24-25 Amsterdam, The Netherland:

Excellence award, Sociable Dining Table: research of mutual adaptation process towards the primitive symbol acquisition and sharing, 9th Information Science Workshop WiNF 2011, Japan.

Outstanding research award, Proposal of social interface based on the multiparty conversation and its applications, Journal of Human-Agent Interactions 2010.

Best paper award, Mimicking and Evaluating Human Motion to Apply a Robot to Improving Imitation Skill of Children with Autism, International Conference on Social Robotic (Springer's Lecture Notes in Artificial Intelligence), Singapore, 2010,

Best paper finalist-award, STB: Intentional Stance Grounded Child-dependent Robot, International Conference on Social Robotic (Springer's Lecture Notes in Artificial Intelligence) Singapore, 2010.

Third prize award in robot design competition, ROBOMO: A Futuristic Personalized-Accompanying Sociable Creature, International Conference on Social Robotic (Springer's Lecture Notes in Artificial Intelligence) Singapore, 2010.

The best late-breaking paper, STB: Human-Dependent Sociable Trash Box, Proc. of 5th ACM/IEEE International Conference on Human-Robot Interaction (HRI), March 2-5, Osaka(2010).

RESEARCH GRANTS

Robot-assisted therapy for the development of joint attention in children with autism, Japan Society for the Promotion of Science (JSPS) for Young Scientists (B) (KAKENHI), from April 2007- March 2008.

Developing an imitation-based robotic system for children with autism to improve their basic Imitation Skills, Japan Society for the Promotion of Science (JSPS) for Young Scientists (B) (KAKENHI), from April 2008- March 2009.

Study on the robot and its relationship development process that includes the relations behavior strategy, Grant-in-Aid for Scientific Research (B), Ministry of Education, Culture, Sports, Science and Technology (MEXT), from April 2009- March 2015.

FELLOWSHIPS

Rotary Yonayama Foundation fellowship, for Ph.D studies, University of Aizu, Computer Science & engineering, April 2004-September 2006.

AIFJ fellowship from Fukushima-ken, for M.Sc studies, University of Aizu, Department of Multimedia Systems, 2001-2003.

INTERNATIONAL COLLABORATION

Involved to establish the research collaboration between University of Western Sydney (UWS-Australia) and Toyohashi University of Technology under the Australian grand of IRIS, 2010.

Involving to established the exchange program between Eindhoven University of Technology (Tu/e), Netherland and Toyohashi University of Technology, 2012

Involving to established the exchange program between Indiana University, USA and Toyohashi University of Technology, 2014

PATIENT Futuristic Driving Agents as a Car Navigation System (Application 2014-026088), Toyohashi University of Technology, November 21, 2014

PROFESSIONAL ACTIVITIES Member of the Programme Committee of the International Conference on Social Robotics (ICSR2013), Bristol, UK, October 27-29.

Publicity Chair of the International Conference on Social Robotics (ICSR2012), Chengdu, China, October 29-31.

Poster Session Chair of the International Conference on Social Robotics (ICSR2011), Amsterdam, The Netherland, November 24-24.

Member of the Programme Committee of the IEEE International Symposium on Human-Robot Interaction (ISNNIP-HRI'08), Sydney, Australia from December 15-18

Member of the Programme Committee of the IEEE International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), Australia from December 15-18

Member of the Programme Committee of the ACM International Workshop on Spatial Audio for Mobile Devices, September 9 2007, Mixed Reality Lab, National University, Singapore.

Member of the Programme Committee of the IEEE International Workshop on Digital Game and Intelligent Toy Enhanced Learning (DIGITEL 2007), Taiwan, March 26-28 2007.

Member of the Organizing Committee of the first International Conference on Kansei Engineering Intelligent Systems (KEIS '06) Aizu-Wakamatsu, Japan, September 5th - 7th, 2006.

Member of the Organizing Committee of the Ninth International Conference on Humans and Computers HC'2006 Aizu, Japan, September 2006.

Member of the Organizing Committee of the Eighth International Conference on Humans and Computers HC'2005 Aizu, Japan, August 31- September 2, 2005.

Organizing member of the 3rd International Workshop on Databases in Networked Information Systems (DNIS 2003), Sessions on User Interactions and Web Based Services. September 22 - 24, 2003, The University of Aizu, Aizu-Wakamatsu, Japan.

AS A REVIEWER Reviewing committee member for International Journal of Social Robotics (Springer), since 2006 .

One of the regular reviewers for ACM/IEEE International Conferences on Human-Robot Interactions (since 2006)

Regular reviewers for International Conference on Social Robotics (Springer), (since 2006)

Reviewer for IEEE Transaction on System, Man, and Cybernetics, IEEE/RSJ International conference on Intelligent Robots and System (IROS), IEEE International Conference on Robotics and Automation (ICRA), and IEEE International Symposium on Human Interactive Communication (RO-MAN).

PUBLICATIONS

BOOK CHAPTER P. Ravindra S. De Silva, Tohru Matsumoto, Stephen G. Lambacher, Masatake Higashi, "The Extraction of Symbolic Postures to Transfer Gestural Behaviors into Robot" Intelligent and Biosensors, IN-TECH Scientific , Publish in October, 2010.

Yohei Kurata, Matsushita Hitomi, Odawara Yuki, Naoki Oshima, P. Ravindra S. De Silva, Michio Okada: Talking-Ally: Toward the realization of the speech generation system and the listener of resources, *Human Interface Society Journal*, Accepted in 2015.

Tatsuya Nosaka, Fukamachi Kenta, Takeda Yasutaka, P Ravindra S. De Silva, Michio Okada: The effect of each other holding hands in the robot "Mako hand" to walk together, *Journal of Human Interface Society*, Accepted in 2015.

Naoki Ohshima, Yasuke Ohyama, Yuki Odahara, P. Ravindra S. De Silva, and Michio Okada: Talking-Ally: The influence of robot utterance generation mechanism on hearer behaviors, *International Journal of Social Robotics*, Volume 7, Issue 1, Pages 51 -62 (2015/2).

Naoki Oshima, Yuta Yamaguchi, P. Ravindra S. De Silva, Michio Okada: Sociable Spotlight:. For artifact consists in social involvement, *Japanese Society for Artificial Intelligence Journal*, Vol 29, No. 3-B, pp.288- 300 (2014).

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S. De Silva, Michio Okada: Sociable Spotlights: The symbolic representation of interconnectivity for turn-taking, *The Innovative Computing, Information and Control Express Letters*, Volume 6, Number 12, December 2012, pp. 2981-2988 (2012)

Yoshiike Yuta, Takashi Endo, Takashi Fukui, Naoki Oshima, P. Ravindra S. De Silva, Michio Okada:. For the organization of the multiplayer conversation for face infringement degree, *Human Interface Society Journal*, Vol 14, No. 4, pp. 425-436 (2012).

Yuta Yamaguchi, Naoki Oshima, P. Ravindra S. De Silva, Michio Okada: For the production of promotion action field through the network, *Human Interface Society Journal*, Vol 14, No. 4, Pp.415-424 (2012)

Taisuke Miyake, Naoki Oshima, P. Ravindra S. De Silva, Michio Okada: Sociable Trash Box: children Is it involved in and how trash robot, *Japanese Society for Artificial Intelligence Journal Special Issue "Human Agent Interaction (HAI)"*, vol. 28, No. 2, SP-K, pp. 197-209 (2013).

Yuto Yamaji, Taisuke Miyake, Yuta yoshiike, P. Ravindra S De Silva and Michio Okada: STB: Child-Dependent Sociable Trash Box, *International Journal of Social Robotics*, Volume 3, Number 4, Pages 359-370 (2011).

Yoshiike Yuta, Kojima Hiroyuki, P Ravindra S. De Silva, Michio Okada: Mawari: proposal of social interface based on the participation metaphor, *Human Interface Society Journal*, Vol.13, No.1, pp.1-8 (2011/2)

P. Ravindra S. De Silva, Ajith. P. Madurapperuma , Stephen G. Lambacher, Ashu Marasinghe and Minetada Osano, " The emotion intensity based robust adaptation model in interactive game", *Journal of Japan Society of Kansei Engineering*, Vol 6 (4), PP. 12-24, July 2006.

P. Ravindra S. De Silva, Minetada Osano, Ashu Marasinghe and Ajith. P. Madurapperuma, "A computational model for recognizing emotion with intensity for machine vision applications", *Special issue on Machine vision application, Journal of The Institute of Electronic, Information and Communication Engineers (IEICE), Special Section on Machine Vision Applications*, Vol.E89-D No.7 pp.2171-2179

Kelsmith, P. Ravindra S. De Silva, N. Bianchi-Berthouze, "Cross-Cultural Differences in Recognizing Affect from Body Posture", *Journal of Interacting With Computers (IWC)*, Elsevier, 18(6): 1371-1389, 2006.

P. Ravindra S. De Silva and N. Bianchi-Berthouze, "Modeling human affective postures: an information theoretic characterization of posture features", *The Journal of Computer Animation and Virtual World*, John Wiley & Sons, V. 15, N.3-4, pp.269-276, July 2004.

P. Ravindra De Silva, Qun Jin and Suantha Herath, " Web Based Agricultural Information and Online Analysis Systems", *The Journal of Three Dimensional Images, 3DForum*, V.19, pp. 92-98, 2002.

REFEREED
CONFERENCE
ARTICLES

Yasutaka Takeda, Shotaro Baba, P. Ravindra S De Silva, and Michio Okada: COLUMN: Discovering the User Invented Behaviors Through the Interpersonal Coordination, Proc of The 17th International Conference on Human-Computer Interaction (HCII 2015), Los Angeles, CA-USA, 2-7 August (2015)- Accepted

Nihan Karatas, Soshi Yoshikawa, P. Ravindra S. De Silva and Michio Okada: NAMIDA: Multiparty Conversation Based Driving Agents in Futuristic Vehicle, Proc of The 17th International Conference on Human-Computer Interaction (HCII 2014), Los Angeles, CA-USA, 2-7 August (2015)- Accepted

Marlena Fraune, P. Ravindra S De Silva, Michio Okada, Selma Sabanovic: Three's company, or a crowd?: The effects of robot number and behavior on HRI in Japan and the USA, International Conference on Robotics Science and System (RSS2015), Rome, Italy, July 13-17,2015 - Accepted

Youssef Khaoula, Naoki Ohshima, P. Ravindra S. De Silva and Michio Okada:. Concepts and Applications of Human-dependent Robots, Proc of The 16th International Conference on Human-Computer Interaction (HCII 2014), Part II, pp 435-. 444, Crete, Greece, 22 -. 27 June (2014)

Nihan Karatas, Nozomi Kina, Daiki Tanaka, Naoki Ohshima, Ravindra De Silva, Michio Okada:.. Designing Sociable CULOT as a Playground Character, Proc of The 16th International Conference on Human-Computer Interaction (HCII 2014), Part II, pp 571 -580, Crete, Greece, 22 -. 27 June (2014)

Youssef Khaoula, Asano Takahiro, P. Ravindra S. De Silva and Michio Okada:. Investigating the Mutual Adaptation Process to Build up the Protocol of Communication, Proc of The 16th International Conference on Human-Computer Interaction (HCII 2014), Part II, . pp 571-576, Crete, Greece, 22 -. 27 June (2014)

Khaoula Youssef, P.Ravindra S. De Silva, Michio Okada: Sociable Dining Table: Incremental Meaning Acquisition Based on Mutual Adaptation Process, Sixth International Conference on Social Robotics (ICSR2014), PP.196-205, Sydney, Australia, October 27- 29 (2014).

Khaoula Youssef, Kouki Yamagiwa, P.Ravindra S. De Silva, Michio Okada: ROBOMO: Towards an Accompanying Mobile Robot, Sixth International Conference on Social Robotics (ICSR2014), PP.206-216, Sydney, Australia, October 27-29 (2014).

Yasutaka Takeda, Kohei Yoshida, Shotaro Baba, P. Ravindra S De Silva, Michio Okada: COLUMN:. Persuasion as a Social Mediator to Establish the Interpersonal Coordination, Proc of the Second International Conference on Human-Agent Interaction (iHAI 2014), PP .213, Tsukuba, Japan, October 28-31 (2014).

Yasutaka Takeda, Kohei Yoshida, Shotaro Baba, P. Ravindra S De Silva, Michio Okada: COLUMN: Coreless Unformed Machine, Workshop on Robots and Art (Misbehaving Machine) at ICSR2014, Sydney, Australia, October 27-29 (2014) (video Submission).

Yuki Odahara, Naoki Ohshima, P. Ravindra S. De Silva, and Michio Okada: Talking Ally: Toward Persuasive Communication in Everyday Life, Proc. of The 15th International Conference on Human-

Computer Interaction (HCII 2013), Part II, pp. 394-403, Nevada, USA, 21 - 26 July (2013).

Tatsuya Mori, Shohei Sawada, P. Ravindra S De Silva, and Michio Okada: Social Trash Box Robot: Behavior Parsing and Goal Inferences in Dynamic Interactions, Proc. of the First International Conference on Human-Agent Interaction (iHAI 2013), II-2-3, Sapporo, Japan, August 7-9 (2013).

Naoki Yamamoto, Kenta Fukamachi, Yasutaka Takeda, P. Ravindra S De Silva, and Michio Okada: Mako-no-Te: To Explore Side-to-Side Communication through the Intersubjectivity, Proc. of the First International Conference on Human-Agent Interaction (iHAI 2013), II-2-p14, Sapporo, Japan, August 7-9 (2013).

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S. De Silva, Michio Okada: Sociable Spotlights: Cognitive Artifacts to Enhance Engagement in Conversation, The 10th Asia Pacific Conference on Computer Human Interaction (APCHI) 2012, pp. 411-416, August 28-31, 2012, Matsue-city, Shimane, Japan.

Yasutaka Takeda, Kohei Yoshida, P. Ravindra S. De Silva, Michio Okada: COLUMN: The Visually Mediated Interpersonal Coordination, The 10th Asia Pacific Conference on Computer Human Interaction (APCHI) 2012, pp. 649-650, August 28-31, 2012, Matsue-city, Shimane, Japan.

Naoki Ohshima, Yusuke Ohyama, Yuki Odahara, P. Ravindra S. De Silva and Michio Okada: Talking-Ally: Intended Persuasiveness by the Utilizing Hearer-ship and Addressivity, Proc. of The fourth International Conference on Social Robotics (ICSR2012), pp. 317-326, October 29-31, Chengdu, China (2012).

Michio Okada: Social Coordination and Coupling for Designing Human Likeness of Sociable Creatures, Proc. of HRI2013 Workshop on Design of Humanlikeness in HRI from uncanny valley to minimal design, p.5 (2013/3).

Anna T. Broers, Jaap Ham. Ron Broeders, Ravindra De Silva and Michio Okada: Goal Inferences about Robot Behavior - Goal Inferences and Human Response Behaviors, Proc. of the 8th ACM/IEEE International Conference on Human-Robot Interaction, HRI'13, pp.91-92 (March 3-6, 2013).

Yuki Odahara, Youhei Kurata, Naoki Ohshima, P. Ravindra S De Silva and Michio Okada: Talking-Ally: Towards Persuasive Communication, Proc. of the 8th ACM/IEEE International Conference on Human-Robot Interaction, HRI'13, p.413 (March 3-6, 2013).

Nozomi Kina, Daiki Tanaka, Naoki Ohshima, P. Ravindra S De Silva and Michio Okada: CULOT: Sociable Creature for Child's Playground, Proc. of the 8th ACM/IEEE International Conference on Human-Robot Interaction, HRI'13, p.407 (March 3-6, 2013).

Yasutaka Takeda, Shohei Sawada, Tatsuya Mori, Kohei Yoshida, Yu Arita, Takahiro Asano, Naoki Ohshima, P. Ravindra De Silva and Michio Okada: Sociable Creatures for Child-Robot Interaction Studies, Proc. of the 8th ACM/IEEE International Conference on Human-Robot Interaction Demonstration Session, HRI'13, March 3-6, Tokyo, Japan. 2013.

Yu Arita, Shinya Hirota, Yuta yoshiike, P. Ravindra S De Silva, Michio Okada: SDT: "A KonKon ?" Interface to Buildup the Connotation Interactions, Proceedings of 7th ACM / IEEE International Conference on Human-Robot Interaction (HRI2012), p. 399, March 5-8, Massachusetts, USA (2012) (video session)

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S. De Silva, Michio Okada: Sociable Spotlights: Cognitive Artifacts to Enhance Engagement in Conversation, The 10th Asia Pacific Conference on

Computer Human Interaction (APCHI 2012), August 28-31, 2012, Matsue , Japan. (in the post)

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S. De Silva, and Michio Okada: Sociable Spotlights: Cognitive Artifacts to Enhance Engagement in Conversation, Proc of International Conference on Social Robotics 2011 (ICSR2011), WORKS-IN-PROGRESS-INPUT FOR DISCUSSION, Pp.73-76, Novemver 24-25, 2011, Amsterdam, The Netherlands.

Yuta Yoshiike, P. Ravindra S. De Silva, and Michio Okada: MAWARI: A Social Interface to Reduce the Workload of the Conversation, Proc of International Conference on Social Robotics 2011 (ICSR2011), LNAI7072, pp.11-20, Novemver 24-25, 2011, Amsterdam, The Netherlands.

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S. De Silva, and Michio Okada: Sociable Spotlights: Cognitive Artifacts to Enhance Engagement in Conversation, Proc of The Asia-Pacific Interdisciplinary Research Conference 2011 (AP-IRC 2011), pp.73 , November 17-18, 2011, Toyohashi, Japan.

Yuta Yoshiike, Takashi Fukui, P. Ravindra S. De Silva, and Michio Okada: ROBOMO: A Futuristic Personalized-Accompanying Sociable Creature, ICRA2011 Workshop on Robots and Art, Frontiers in Human-Centered Robotics as Seen by the Arts, WS-F -11, May 13, 2011, Shanghai, China.

Yu Arita, Taisuke Miyake, Naoki Yamamoto, P.Ravindra S De Silva, and Michio Okada: HINOCO - An Interface to Colligate the Virtual-World and Real-World, Proc of Virtual Reality International Conference (VRIC 2011), pp.18 -19, 6-8 April 2011, Laval, France.

Yuta Yoshiike, Hiroyuki Ojima, P. Ravindra S De Silva and Michio Okada: MAWARI: An Interactive Social Interface, Proceedings of 6th ACM/IEEE International Conference on Human-Robot Interaction (HRI2011), pp.293-294, March 6-9, 2011 Lausanne, Switzerland.

Naoki Ohshima, Yuta Yamaguchi, P. Ravindra S De Silva and Michio Okada: Sociable Spotlights: A Flock of Interactive Artifacts (video session), Proceedings of 6th ACM/IEEE International Conference on Human-Robot Interaction (HRI2011), pp.321-322, March 6-9, 2011 Lausanne, Switzerland.

Yasutaka Takeda, Yuta Yoshiike, P. Ravindra S De Silva and Michio Okada: COLUMN:Dynamic of Interpersonal Coordination (video session), Proceedings of 6th ACM/IEEE International Conference on Human-Robot Interaction (HRI2011), pp.389-390, March 6-9, 2011 Lausanne, Switzerland.

Yuto Yamaji, Taisuke Miyake, Yuta Yoshiike, P. Ravindra De Silva and Michio Okada: STB: Intentional Stance Grounded Child-dependent Robot, Proc. of International Conference on Social Robotics (ICSR 2010), November 23-24, Singapore (2010). (published in: S.S. Ge et al. (Eds.): ICSR 2010, LNAI 6414, pp. 71-80. Springer, Heidelberg (2010))

Yuki Kado, Takanori Kamoda, Yuta Yoshiike, P. Ravindra S. De Silva, and Michio Okada: Reciprocal-Adaptation in a Creature-based Futuristic Sociable Dining Table, Proc. of 19th IEEE International Symposium in Robot and Human Interactive Communication (Ro-Man 2010), WeP2T2.4, Sep. 12-15, Viareggio, Italy (2010).

Yasutaka Takeda, Taisuke Miyake, Hironori Uto, Yuta Yoshiike, R.Ravindra De Silva, and Michio Okada: "COLUMN: A Novel Architecture for Transformable Artifact," Proc. of VRIC 2010, pp.271-277, April 7-9, Laval, France

Yuta Yoshiike, P. Ravindra De Silva and Michio Okada: Cues for Sociable PC: Coordinate and Synchronize Its Cues based on User Attention and Activities on Display, Proc. of the 5th ACM/IEEE International Conference on Human-Robot Interaction(HRI2010), pp.135-136, March 2-5 2010, Osaka.

Yuto Yamaji, Taisuke Miyake, Yuta Yoshiike, P. Ravindra De Silva and Michio Okada: STB: Human-Dependent Sociable Trash Box, Proc. of the 5th ACM/IEEE International Conference on Human-Robot Interaction(HRI2010), pp.197-198, March 2-5 2010, Osaka.

Yuki Kado, Takanori Kamoda, Yuta Yoshiike, P. Ravindra De Silva and Michio Okada: Sociable Dining Table: The Effectiveness of a "KonKon?" Interface for Reciprocal Adaptation, Proc. of the 5th ACM/IEEE International Conference on Human-Robot Interaction(HRI2010), pp.105-106, March 2-5 2010, Osaka.

Yuta Yoshiike, Yuto Yamaji, Taisuke Miyake, P. Ravindra De Silva and Michio Okada: Sociable Trash Box, Proc. of the 5th ACM/IEEE International Conference on Human-Robot Interaction (HRI2010), p.337, March 2-5 2010, Osaka.(video session)

P. Ravindra S. De Silva, Katsunori Tadano, Azusa Saito, Stephen G. Lambacher, and Masatake Higashi,"Therapeutic-Assisted Robot for Children With Autism" IEEE/RSJ International Conference on Intelligent Robots and System (IROS09), October 11-15, 2009, St.Louis, USA, (Accepted).

P. Ravindra S. De Silva, Katsunori Tadano, Azusa Saito, Stephen G. Lambacher, and Masatake Higashi, "The Development of an Assistive Robot for Improving the Joint Attention of Autistic Children", 11th IEEE International Conference on Rehabilitation Robotics (ICORR09), IEEE Computer Society, June 23-26, 2009, Kyoto, Japan, Accepted.

P. Ravindra S. De Silva, Katsunori Tadano, and Masatake Higashi, "Unsupervised Approach to Acquire Robot Joint Attention", 4th International Conference on Autonomous Robots and Agents, IEEE Computer Society, February 10-12, 2009, Wellington, New Zealand.

P. Ravindra S. De Silva, Tohru Matsumoto, Azusa Saito, Stephen G. Lambacher, Masatake Higashi, "Development of a Social Learning Mechanism for a Humanoid Robot", Fourth International Conference on Intelligent Sensors, Sensor Networks and Information Processing", IEEE Computer Society, December 15-18, 2008, Sydney, Australia.

P. Ravindra S. De Silva, Masatake Higashi, Minetada Osano, "The Development of an Assistive Robot as a Therapeutic Device to Enhance the Primal Imitation Skills of Autistic Children", Workshop at ACM/IEEE Human-Robot Interaction Conference, Workshop proceeding of Robotic Helpers: User Interaction, Interfaces and Companions in Assistive and Therapy Robot, page 9-16, Amsterdam, Netherlands 12-15 March 2008.

P. Ravindra S. De Silva, Masatake Higashi, Minetada Osano, " Monitoring of Emotion to Create Adaptive Game for Children with Mild Autistic", International Conference on Computer Analysis of Images and Patterns, Will Appear on Springer-The series Lecture Notes in Computer Science (LNCS), Austria, August 27-29, 2007.

P. Ravindra S. De Silva, Stephen G. Lambacher, Ajith. P. Madurapperuma, Ashu Marasinghe ,and Minetada Osano, Therapeutic Tool for Develop Child Nonverbal Communication Skills through Interactive Game, International Conference on Computational Intelligence for Modeling, Control and Automation (CIMCA), IEEE Computer Society, Page 54-60, 28 November to 1 December 2006, Sydney, Australia.

P. Ravindra S. De Silva, Stephen G. Lambacher, Ajith. P. Madurapperuma, Ashu Marasinghe ,and Minetada Osano, "The Pedagogical Structure-Based Therapeutic System", International Conference on Kansei Engineering & Intelligent System, Society of Kansei Engineering, Page 45-67, September 5-7, 2006, University of Aizu, Japan.

P. Ravindra S. De Silva, Ashu Marasinghe, Ajith. P. Madurapperuma, Stephen G. Lambacher,

and Minetada Osano, "The Information Gain-based Computational Model in Intelligent System", International Conference Soft Computing and Intelligent Systems and Symposium on Advanced Intelligent Systems, Page 103-110, Tokyo Institute of Technology, September 20-24, 2006, Japan.

P. Ravindra S. De Silva, Ashu Marasinghe, Ajith. P. Madurapperuma, Stephen G. Lambacher, and Minetada Osano, "Modeling Cognitive Structure of Emotion for Developing a Pedagogical Agent-based Interactive System, IEEE Conference on System, Man, and Cybernetics (SEM), Page 89-96, Taipei, Taiwan, October 8-11, 2006.

Ajith. P. Madurapperuma, P. Ravindra S. De Silva, Stephen G. Lambacher, Ashu Marasinghe, and Minetada Osano, "The Pedagogical Structure-Based Therapy Simulation System for Develop Child Emotional Expression, Eight International Information Technology Conference, Page 28-35, University of Colombo School of Computing, September 12-13 2006.

P. Ravindra S. De Silva, Minetada Osano, Ashu Marasinghe and Ajith. P. Madurapperuma" A multi-agent based interactive system: child's emotion performances quantified through affective body gestures, 18th IEEE International Conference on Pattern Recognition (ICPR), Page 1136-1140, Hong Kong, August 20-22, 2006.

P. Ravindra S. De Silva, Ajith. P. Madurapperuma, Ashu Marasinghe, and Minetada Osano "Integrating animated pedagogical agent as motivational supporter into interactive system", Third IEEE Conference on Computer and Robot Vision, CRV'06, page 34-41, Canada, July 2006.

P. Ravindra S. De Silva, Minetada Osano, Ashu Marasinghe and Ajith. P. Madurapperuma, "Towards recognizing emotion with the affective dimensions through body gestures, 7th IEEE International Conference Automatic Face and Gesture Recognition, FG2006, pages 269-274, Southampton, UK, April 10-12 2006.

P. Ravindra S. De Silva, A.KelSmith, N. Bianchi-Berthouze, "Unsupervised detection of affective state nuances from body postures", The First International Conference on Affective Computing & Intelligent Interaction, Springer-The series Lecture Notes in Computer Science (LNCS), Volume 3784, Pages 32 -39, Beijing China, October 2005.

A, Kleinsmith, P. Ravindra S. De Silva, N. Bianchi-Berthouze, "Cross-Cultural Differences in Emotion Recognition of Affective Body Postures", International Conference on User Modeling '05, Springer-The series Lecture Notes in Computer Science (LNCS), Volume 3538, Pages 50-59, Edinburgh (UK), July 2005.

P. Ravindra S. De Silva, N. Bianchi-Berthouze "Measuring posture features saliency in expressing affective states", IEEE/Robotic Society of Japan (RSJ) International conference on Intelligent Robotics and Systems (IROS 2004), Pages 2003-2008, Sendai, Japan October 2004.

KelSmith, P. Ravindra De Silva, N. Bianchi-Berthouze "Grounding Affective Dimensions into Posture Features", The First International Conference on Affective Computing Intelligent Interaction, Lecture Notes in Computer Science (LNCS), Volume 3784, Pages 263-270, Beijing China, October 2005.

P. Ravindra S. De Silva, N. Bianchi-Berthouze, "Modeling human affective postures: an information theoretic characterization of posture features, 17th International Conference on Computer Animation and Social Agents (CASA 2004), pages 22-29, University of Geneva, Switzerland, July 7-9 2004

P. Ravindra S. De Silva, Qun Jin and Suantha Herath, "Web Based Agricultural Information and Online Analysis Systems", The Proceeding of 2002 International Conference on Computer and Information Technology, Pages 73-78, Aizu-Wakamatsu, Japan, September 2002.

PROFESSIONAL
MEMBERSHIPS

Member of IEEE, ACM, and IEICE

LANGUAGES

Sinhala- Native Speaker, English- Fluent, Japanese- Fluent