

List of Publications

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Book Chapter:

1. **M Masudur Rahman** and Seiji Ishikawa (2003): Method of Representing Human Postures and Motions, Book Chapter 15, pp. 131-138, Current Trends in Artificial Intelligence and Applications, *University Malaysia Sabah* (2004).
2. **M Masudur Rahman** and Seiji Ishikawa (2004): Applying Image Pre-processing Techniques for Appearance-Based Human Posture Recognition: An Experimental Analysis, **Book:** Advances in Artificial Intelligence, Lecture Notes in Computer Science, **Chapter:** Computer Vision, Imaging Processing and Pattern Recognition, P-159, Volume 3339/2004, Publisher: Springer-Verlag.

International Journals:

1. **M. Masudur Rahman**, S. Ishikawa, "Human Motion Recognition Using an Eigenspace", *Pattern Recognition Letters*, Vol. 26, No. 6, pp. 687–697(2005).
2. **M. Masudur Rahman**, S. Ishikawa, "Overcoming dress effect in eigenspace", **International Journal of Image and Graphics (IJIG)**, Vol. 5, No. 4, 811-823 (2005).
3. **M. Masudur Rahman**, S. Ishikawa, "Human posture recognition: eigenspace tuning by mean eigenspace", **International Journal of Image and Graphics (IJIG)**, Vol. 5, No. 4, 825-837(2005).
4. **M. Masudur Rahman**, S. Ishikawa, "Representing Human Motions by an Eigenspace", **Journal of Biomedical Soft Computing and Human Sciences**, Vol. 9, No. 1, pp.27-33 (2003).
5. **M. Masudur Rahman**, **Anand Santhanam** "Supervised learning and classification of multi-class objects using kernel trick" Accepted in the **International Journal of Computational Vision and Biomechanics** (2007)
6. **M. Masudur Rahman** & Antonio Robles-Kelly: "How can we tune eigenspace" **IEEE Transaction of Pattern Analysis and Machine Intelligence** (under processing).

International Reviewed papers:

- [1] **M. Masudur Rahman** & Anand Santhnam: Kernel PCA in detecting moving vehicle from its viewpoint, International Conference on Computing: Theory and Applications, pp 665-670. March 2007, Kolkata, India.
- [2] **M. Masudur Rahman**: Merging and Generalizing Eigenspace for Partially Occluded and Destroyed Object Recognition, IEEE International Conference on Image Processing, pp. 2729-2732, 2006, Atlanta, USA.
- [3] **M. Masudur Rahman** & Anand Santhnam: Moving vehicle classification using eigenspace, IEEE/RSJ

- International Conference on Robotic Systems, pp. 3849-3854, 2006, Beijing, China.
- [4] **M. Masudur Rahman** & Anand Santhnam: Appearance-based Classification of Moving Cars by Eigendimension Matching, IEEE Symposium on Intelligent Vehicle 2006, pp-250-255, Tokyo, Japan
- [5] **M. Masudur Rahman** & Antonio Robles-Kelly: "Tuned Eigenspace Technique for Articulated Motion Recognition", European Conference on Computer Vision, pp. 174-185 (2006) (Top rank paper), Austria.
- [6] **M. Masudur Rahman**, Richard Hartley, S. Ishikawa: "A Passive and Multimodal Biometric Systems for Personal Identification" *International conference on visualization, Imaging and Image Processing*, pp. 89-92, Spain (2005).
- [7] **M. Masudur Rahman**, S. Ishikawa: "Proposing a Passive Biometric System for Robotic Vision" *International Symposium of Artificial Life and Robotics*, CDROM, Oita, Japan (2005).
- [8] **M. Masudur Rahman**, S. Ishikawa: "Eigenspace Technique With Gaussian Of Laplacian Images For The Robust Human Posture Recognition" *Proc. of 3rd International Conference on Electrical & Computer Engineering*, pp. 104-107, 28-30 December (2004), Dhaka, Bangladesh
- [9] **M. Masudur Rahman**, Seiji Ishikawa: "Developing a Multimodal Biometric System for Personal Identification", *Proceedings of the SICE Conference (Kyushu Branch)*, pp. 139-140 (2004), Wakamatsu, Japan.
- [10] **M. Masudur Rahman**, S. Ishikawa: "Applying Image Pre-processing Techniques for Appearance-based Human Posture Recognition: an Experimental Analysis", *17th Joint Australian Conference on Artificial Intelligence*, p-159(2004), Cairns, Australia.
- [11] Satoshi Houman, **M. Masudur Rahman**, Joo Kooi Tan, Seiji Ishikawa, "Representing Human Motions in an Eigenspace Based on Surrounding Cameras", *Proc. of the Int'l Conf. on Control, Automation and Systems*, pp. 1808-1813, August 25-27, Bangkok, Thailand(2004).
- [12] **M. Masudur Rahman**, S. Ishikawa: "Eigenwindow Method Updated by a Mean Eigenwindow", *Proceeding of SICE International Conference*, pp. 513-516, August 4-6(2004), Sapporo, Japan.
- [13] T. Oagata, **M. Masudur Rahman**, J.K. Tan, S. Ishikawa, "Real Time Human Motion Recognition Based on a Motion History" *Proceeding of the SICE International Conference*, pp. 1901-1904, August 4-6(2004), Sapporo, Japan.
- [14] **M. Masudur Rahman**, Seiji Ishikawa: "Robust Appearance-based Human Action Recognition", 17th IAPR International Conference on Pattern Recognition, pp. 165-168, Cambridge, UK (August, 2004).
- [15] **M. Masudur Rahman**, Seiji Ishikawa: "A Robust Recognition Method for Partially Occluded/Destroyed Objects", *Proc. of the Sixth Asian Conf. On Computer Vision*, pp. 984-988, Jan. 2004, Jeju, Korea.
- [16] **M. Masudur Rahman**, Seiji Ishikawa: "A Mean Eigen Window Method for Partially Occluded/Destroyed Objects Recognition", 7th Digital Image Computing: Techniques and Applications, pp. 929-936 (2003), Sydney, Australia
- [17] **M. Masudur Rahman**, Seiji Ishikawa: "Sports analysis using Eigen Vision", *Proceeding of 2nd International Conference on Computational Intelligence, Robotics and Autonomous Systems*, CDROM (2003), Singapore.

- [18] **M. Masudur Rahman**, Seiji Ishikawa: "Human Motion analysis using Eigen Vision", Proceeding of 2nd *International Conference on Computational Intelligence, Robotics and Autonomous Systems*, CDROM (2003), (Invited Paper, Singapore.
- [19] **Masudur Rahman**, S. Ishikawa, "Representation of Eigencurves Based on Various Clothes", *Proceedings of The Society of Instrument & Control Engineers*, pp.900-903, 2003 Japan.
- [20] **M. Masudur Rahman**, S. Ishikawa, "Appearance-Based Representation and Recognition Of Human Motions", *IEEE Proc. of the International Conference on Robotics & Automation*, pp. 1410-1415, May 12-17, 2003, Taiwan
- [21] **M. Masudur Rahman**, S. Ishikawa, " Body Shape Variability Problem in Eigenspace ", SPIE conference *Electronic Imaging*, January 21-24(2003), USA.
- [22] M. Ashrafuzzaman, **M. Masudur Rahman**, MMA Hashem, "Capturing and Recognizing Objects Appearance Employing Eigenspace ", *Proceedings of International Conference on Computer and Information Technology*, pp. 434-436, December 27-28(2002), Bangladesh.
- [23] **M. Masudur Rahman**, S. Ishikawa, "Representation of Umpires Action in Eigenspace", *Proceedings of International Conference on Computer and Information Technology*, pp. 163-166, December 27-28, (2002), Bangladesh.
- [24] **M. Masudur Rahman**, S. Ishikawa, "Application of Eigenspace Technique in Robot Vision", *Proceedings of International Conference on Electrical and Computer Engineering*, pp. 148-151 January 27-28(2002), Bangladesh.
- [25] **M. Masudur Rahman**, S. Ishikawa, "Standing Pose Detection Proposing Mean Eigenspace", *Proceedings of International Conference on Automation, Robotics, Control and Vision*, pp. 304-308, December 3-5(2002), Singapore.
- [26] M. Ashrafuzzaman, **M. Masudur Rahman**, M M A Hashem, "Automatic Acquisition of Object Using Eigen Appearance" *Proceeding of the SICE International Conference*, MP 17-02 , August 5-7(2002), Japan.
- [27] **M. Masudur Rahman**, S. Ishikawa "Posture Recognition: Creating an Eigenspace from Mean Posture Set", *Proceeding of SICE International Conference*, WA 03-1, August 5-7(2002), Japan.
- [28] **M. Masudur Rahman**, S. Ishikawa "Representing Human Postures/Motions Using an Eigenspace Technique", *Proc. of the Int'l Conf. on Artificial Intelligence in Engineering & Technology*, pp. 232-236, June 17-18 (2002), Malaysia.
- [29] **M. Masudur Rahman**, Kazuya Nakamura, Seiji Ishikawa: "Recognizing Human Behavior Using Universal Eigenspace", *IAPR International Conference on Pattern Recognition*, pp. 10295-10298 (2002), August, Canada.
- [30] **M. Masudur Rahman**, Kazuya Nakamura, Seiji Ishikawa: "Several Human Postures Recognition from an Eigenspace", *Proceedings of the Sixth Digital Image Computing: Techniques and Applications*, pp. 225-229, January 21-22(2001), Australia.
- [31] **Rahman, M. M.**, Kim, H. S., Ishikawa Seiji: "Solving a Dress Problem for a Human Model Recognition",

Proceedings of The Society of Instrument & Control Engineers, CD-ROM, 212 A-3, July, 2001, Japan.

- [32] **M. Masudur Rahman**, Seiji Ishikawa, "Appearance-Based Human Postures Recognition Overcoming Dress Effect", *Int. Conf. on Computational Intelligent for Modeling, Control and Automation, (CIMCA)*, pp.271-279, 9-11 July (2001), USA.
- [33] **M. Masudur Rahman**, Seiji Ishikawa, M. M. A Hashem: "Blurred-Edge Images for Posture Recognition Using Eigen-Space Technique", *Proc. of the International Conference on Electrical and Computer Engineering*, pp. 78-81, January 5-6(2001), Bangladesh.
- [34] **M. M. Rahman**, H.S. Kim, S. Ishikawa: "On reducing dress effect in human postures recognition using an eigen-space method", *The Society of Inst. & control Engineers (SICE)*, Vol.19, pp.123-126, Nov.27-28, 2000, Japan.
- [35] **Md. Masudur Rahman**, Seiji Ishikawa: "Identification of Human Postures by Eigen Space Technique", *Proceedings of Int. Conf. on Comp. Theory and Applications (ICCTA)*, pp.52-57, August 29-31(2000), Egypt.
- [36] **Md. Masudur Rahman**, Seiji Ishikawa: "Identification of Human Postures Employing an Eigen-space Technique", *International Conference on Manufacturing (ICM)*, pp. 144-150, Feb.24-26 (2000), Bangladesh.

Non-Reviewed Papers (National Conference in Japan):

1. **M. Masudur Rahman**, Seiji Ishikawa: "On recognizing human postures using an eigen-space method", *The Journal of Kitakyushu Medical and Engineering Cooperative Society (KMEC)*, Vol.22, No. 1, pp.5-8 (September, 2000).
2. **Mohammad Masudur Rahman**, Hyoung Seop Kim, Seiji Ishikawa: "Employing Blurred Edge Images for Reducing Dress Effects in Human Postures Recognition", *Proceedings of the Institute of Electronics, Information and Communication Engineers*, p.203 (March, 2001).
3. **M. Masudur Rahman**, Kazuya Nakamura, Seiji Ishikawa: "A Method of Representing and Recognizing Human Postures", *The Journal of Kitakyushu Medical and Engineering Cooperative Society (KMEC)*, Vol.13, No. 1, pp.9-10 (2002).
4. **M. Masudur Rahman**, Joo Kooi Tan, Seiji Ishikawa, "On Global Eigenspace for Human Motion Recognition", *Proceedings of the SICE national Conference (Kyushu Branch)*, pp. 143-144(2002).
5. **M. Masudur Rahman**, Seiji Ishikawa: Development of a Tuned Eigenspace for Human Postures Recognition, *The Journal of Kitakyushu Medical and Engineering Cooperative Society (KMEC)*, Vol.15, pp.1-2 (2004).
6. Houshuo Satoshi, **M. Masudur Rahman**, Joo Kooi Tan, Seiji Ishikawa: "Human Motion Recognition in an Eigenspace Method by Employing Multiple Cameras", *The Journal of Kitakyushu Medical and Engineering Cooperative Society (KMEC)*, Vol.15, pp.75-76 (2004).