

## References

- [1] Fitbit. <http://en.wikipedia.org/wiki/Fitbit>.
- [2] Google glass. [http://en.wikipedia.org/wiki/Google\\_Glass](http://en.wikipedia.org/wiki/Google_Glass).
- [3] Nymi band. <http://www.nymi.com/>.
- [4] Smart watch. <http://en.wikipedia.org/wiki/Smartwatch>.
- [5] Heikki Ailisto, Elena Vildjiounaite, Mikko Lindholm, Satu-Marja Makela, and Johannes Peltola. Soft biometrics – combining body weight and fat measurements with fingerprint biometrics. *Pattern Recognition Letters*, 2006.
- [6] Heikki J Ailisto, Mikko Lindholm, Jani Mantyjarvi, Elena Vildjiounaite, and Satu-Marja Makela. Identifying people from gait pattern with accelerometers. In *Defense and Security*. International Society for Optics and Photonics, 2005.
- [7] Denis Baldisserra, Annalisa Franco, Dario Maio, and Davide Maltoni. Fake fingerprint detection by odor analysis. In *Advances in Biometrics*, pages 265–272. Springer, 2005.
- [8] Ling Bao and Stephen S Intille. Activity recognition from user-annotated acceleration data. In *Pervasive computing*, pages 1–17. Springer, 2004.
- [9] Irmgard Bartenieff. *Body movement: Coping with the environment*. Psychology Press, 1980.
- [10] Donald J Berndt and James Clifford. Using dynamic time warping to find patterns in time series. In *KDD workshop*, 1994.
- [11] Gautam Bhanage, Ivan Seskar, Yanyong Zhang, Dipankar Raychaudhuri, and Shweta Jain. Experimental evaluation of openvz from a testbed deployment perspective. In *Testbeds and Research Infrastructures. Development of Networks and Communities*, pages 103–112. Springer, 2011.
- [12] Gautam Bhanage, Yanyong Zhang, and Dipankar Raychaudhuri. Virtual wireless network mapping: An approach to housing mvnos on wireless meshes. In *Personal Indoor and Mobile Radio Communications (PIMRC), 2011 IEEE 22nd International Symposium on*, pages 187–191. IEEE, 2011.
- [13] Robert Biddle, Sonia Chiasson, and Paul C Van Oorschot. Graphical passwords: Learning from the first twelve years. *ACM Computing Surveys*, 2012.
- [14] Cheng Bo, Lan Zhang, Xiang-Yang Li, Qiuyuan Huang, and Yu Wang. Silentsense: silent user identification via touch and movement behavioral biometrics. In *ACM MobiCom*, 2013.
- [15] Kevin W Bowyer, Kyong Chang, and Patrick Flynn. A survey of approaches and challenges in 3d and multi-modal 3d+ 2d face recognition. *Computer vision and image understanding*, 2006.
- [16] Marcel Brass, Harold Bekkering, and Wolfgang Prinz. Movement observation affects movement execution in a simple response task. *Acta psychologica*, 106(1):3–22, 2001.
- [17] Zhongmin Cai, Chao Shen, Miao Wang, Yunpeng Song, and Jialin Wang. Mobile authentication through touch-behavior features. In *Biometric Recognition*. Springer, 2013.
- [18] RE Challis and RI Kitney. The design of digital filters for biomedical signal processing part 3: The design of butterworth and chebychev filters. *Journal of biomedical engineering*, 1983.
- [19] Tanzeem Choudhury and Alex Pentland. The sociometer: A wearable device for understanding human networks. In *CSCW'02 Workshop: Ad hoc Communications and Collaboration in Ubiquitous Computing Environments*, 2002.
- [20] Robert T Collins, Ralph Gross, and Jianbo Shi. Silhouette-based human identification from body shape and gait. In *IEEE FGR*, 2002.

- [21] Cory Cornelius, Ronald Peterson, Joseph Skinner, Ryan Halter, and David Kotz. A wearable system that knows who wears it. In *Proceedings of the 12th annual international conference on Mobile systems, applications, and services*, pages 55–67. ACM, 2014.
- [22] Paul Dassonville, Scott M Lewis, Xiao-Hong Zhu, Kamil Ugurbil, Seong-Gi Kim, and James Ashe. The effect of stimulus–response compatibility on cortical motor activation. *Neuroimage*, 13(1):1–14, 2001.
- [23] Alexander De Luca, Alina Hang, Frederik Brudy, Christian Lindner, and Heinrich Hussmann. Touch me once and i know it’s you!: implicit authentication based on touch screen patterns. In *ACM CHI*, 2012.
- [24] Mohammad Omar Derawi, Claudia Nickel, Patrick Bours, and Christoph Busch. Unobtrusive user-authentication on mobile phones using biometric gait recognition. In *Intelligent Information Hiding and Multimedia Signal Processing (IIH-MSP), 2010 Sixth International Conference on*, pages 306–311. IEEE, 2010.
- [25] Marco Di Rienzo, Francesco Rizzo, Gianfranco Parati, Gabriella Brambilla, Maurizio Ferratini, and Paolo Castiglioni. Magic system: A new textile-based wearable device for biological signal monitoring. applicability in daily life and clinical setting. In *Engineering in Medicine and Biology Society, 2005. IEEE-EMBS 2005. 27th Annual International Conference of the*, pages 7167–7169. IEEE, 2005.
- [26] Piotr Dollár, Vincent Rabaud, Garrison Cottrell, and Serge Belongie. Behavior recognition via sparse spatio-temporal features. In *Visual Surveillance and Performance Evaluation of Tracking and Surveillance, 2005. 2nd Joint IEEE International Workshop on*, pages 65–72. IEEE, 2005.
- [27] Mark Euston, Paul Coote, Robert Mahony, Jonghyuk Kim, and Tarek Hamel. A complementary filter for attitude estimation of a fixed-wing uav. In *Intelligent Robots and Systems, 2008. IROS 2008. IEEE/RSJ International Conference on*, pages 340–345. IEEE, 2008.
- [28] Jonny Farrington, Andrew J Moore, Nancy Tilbury, James Church, and Pieter D Biemond. Wearable sensor badge and sensor jacket for context awareness. In *Wearable Computers, 1999. Digest of Papers. The Third International Symposium on*, pages 107–113. IEEE, 1999.
- [29] Tao Feng, Jun Yang, Zhixian Yan, Emmanuel Munguia Tapia, and Weidong Shi. Tips: context-aware implicit user identification using touch screen in uncontrolled environments. In *ACM HotMobile*, 2014.
- [30] Mario Frank, Ralf Biedert, Eugene Ma, Ivan Martinovic, and Dawn Song. Touchalytics: On the applicability of touchscreen input as a behavioral biometric for continuous authentication. *IEEE Transactions on Information Forensics and Security*, 2013.
- [31] Davrondzhon Gafurov, Patrick Bours, and Einar Snekkenes. User authentication based on foot motion. *Signal, Image and Video Processing*, 2011.
- [32] Davrondzhon Gafurov, Kirsi Helkala, and Torkjel Søndrol. Biometric gait authentication using accelerometer sensor. *Journal of computers*, 2006.
- [33] Davrondzhon Gafurov, Einar Snekkenes, and Patrick Bours. Gait authentication and identification using wearable accelerometer sensor. In *IEEE AIAT*, 2007.
- [34] Davrondzhon Gafurov and Einar Snekkenes. Arm swing as a weak biometric for unobtrusive user authentication. In *IEEE IIHMSP*, 2008.
- [35] Daniele Giansanti, Giovanni Maccioni, Stefano Cesinaro, Francesco Benvenuti, and Velio Macellari. Assessment of fall-risk by means of a neural network based on parameters assessed by a wearable device during posturography. *Medical engineering & physics*, 30(3):367–372, 2008.
- [36] Marco Gruteser. CT-ISG: Multi-Layer Anonymity Techniques for Time-Series Location Information in Wireless Systems. NSF #CNS-0524475 , \$199,595, 09/2005 - 08/2008.
- [37] WS Harwin and RD Jackson. Analysis of intentional head gestures to assist computer access by physically disabled people. *Journal of biomedical engineering*, 1990.

- [38] Javier Hernandez, Yin Li, James M Rehg, and Rosalind W Picard. Bioglass: Physiological parameter estimation using a head-mounted wearable device. In *IEEE MobiHealth*, 2014.
- [39] Robert Buzz Hill. Retina identification. *Biometrics: Personal Identification in Networked Society*, pages 123–141, 2002.
- [40] Baik Hoh, M. Gruteser, Hui Xiong, and A. Alrabady. Enhancing security and privacy in traffic-monitoring systems. *Pervasive Computing, IEEE*, 5(4):38–46, Oct.-Dec. 2006.
- [41] Baik Hoh, Marco Gruteser, Ryan Herring, Jeff Ban, Dan Work, Juan-Carlos Herrera, Alexandre Bayen, Murali Annavaram, and Quinn Jacobson. Virtual trip lines for distributed privacy-preserving traffic monitoring. In *ACM MobiSys*, 2008.
- [42] Baik Hoh, Marco Gruteser, Hui Xiong, and Ansaif Alrabady. Preserving privacy in gps traces via uncertainty-aware path cloaking. In *CCS '07: Proceedings of the 14th ACM conference on Computer and communications security*, pages 161–171, New York, NY, USA, 2007. ACM.
- [43] Baik Hoh, Hui Xiong, Marco Gruteser, and Ansaif Alrabady. Enhancing privacy preservation of anonymous location sampling techniques in traffic monitoring systems. In *Proceedings of IEEE/CreateNet Intl. Conference on Security and Privacy for Emerging Areas in Communication Networks (Poster)*, 2006.
- [44] Lin Hong, Yifei Wan, and Anil Jain. Fingerprint image enhancement: algorithm and performance evaluation. *Pattern Analysis and Machine Intelligence, IEEE Transactions on*, 20(8):777–789, 1998.
- [45] K Hung, YT Zhang, and B Tai. Wearable medical devices for tele-home healthcare. In *Engineering in Medicine and Biology Society, 2004. IEMBS'04. 26th Annual International Conference of the IEEE*, volume 2, pages 5384–5387. IEEE, 2004.
- [46] Shoya Ishimaru, Kai Kunze, Koichi Kise, Jens Weppner, Andreas Dengel, Paul Lukowicz, and Andreas Bulling. In the blink of an eye: combining head motion and eye blink frequency for activity recognition with google glass. In *ACM AH*, 2014.
- [47] Anil K Jain, Lin Hong, Sharath Pankanti, and Ruud Bolle. An identity-authentication system using fingerprints. *Proceedings of the IEEE*, 1997.
- [48] Anil K Jain, Arun Ross, and Salil Prabhakar. An introduction to biometric recognition. *IEEE Transactions on Circuits and Systems for Video Technology*, 2004.
- [49] Zach Jorgensen and Ting Yu. On mouse dynamics as a behavioral biometric for authentication. In *ASIACCS*, 2011.
- [50] Emil Jovanov, Aleksandar Milenkovic, Chris Otto, and Piet C De Groen. A wireless body area network of intelligent motion sensors for computer assisted physical rehabilitation. *Journal of NeuroEngineering and rehabilitation*, 2(1):6, 2005.
- [51] Dean M Karantonis, Michael R Narayanan, Merryn Mathie, Nigel H Lovell, and Branko G Celler. Implementation of a real-time human movement classifier using a triaxial accelerometer for ambulatory monitoring. *Information Technology in Biomedicine, IEEE Transactions on*, 10(1):156–167, 2006.
- [52] Santiago Led, Jorge Fernández, and Luis Serrano. Design of a wearable device for ecg continuous monitoring using wireless technology. In *Engineering in Medicine and Biology Society, 2004. IEMBS'04. 26th Annual International Conference of the IEEE*, volume 2, pages 3318–3321. IEEE, 2004.
- [53] Jun Li, Hao Wu, Bin Liu, Jianyuan Lu, Yi Wang, Xin Wang, Yanyong Zhang, and Lijun Dong. Popularity-driven coordinated caching in named data networking. In *Proceedings of the eighth ACM/IEEE symposium on Architectures for networking and communications systems*, pages 15–26. ACM, 2012.
- [54] Jun Li, Yanyong Zhang, , Kiran Nagaraja, Sugang Li, and Dipankar Raychaudhuri. A mobile phone based wsn infrastructure for iot over future internet architecture. In *Green Computing and Communications (GreenCom), 2013 IEEE and Internet of Things (iThings/CPSCoM), IEEE International Conference on and IEEE Cyber, Physical and Social Computing*, pages 426–433. IEEE, 2013.

- [55] Qiang Li, John A Stankovic, Mark A Hanson, Adam T Barth, John Lach, and Gang Zhou. Accurate, fast fall detection using gyroscopes and accelerometer-derived posture information. In *Wearable and Implantable Body Sensor Networks, 2009. BSN 2009. Sixth International Workshop on*, pages 138–143. IEEE, 2009.
- [56] Jiayang Liu, Lin Zhong, Jehan Wickramasuriya, and Venu Vasudevan. uwave: Accelerometer-based personalized gesture recognition and its applications. *Pervasive and Mobile Computing*, 5(6):657–675, 2009.
- [57] Xiruo Liu, Wade Trappe, and Yanyong Zhang. Secure name resolution for identifier-to-locator mappings in the global internet. In *Computer Communications and Networks (ICCCN), 2013 22nd International Conference on*, pages 1–7. IEEE, 2013.
- [58] Steve Mann. Wearable computing: A first step toward personal imaging. *IEEE Computer*, 30(2):25–32, 1997.
- [59] Jani Mantyjarvi, Mikko Lindholm, Elena Vildjiounaite, S-M Makela, and HA Ailisto. Identifying users of portable devices from gait pattern with accelerometers. In *Acoustics, Speech, and Signal Processing, 2005. Proceedings.(ICASSP'05). IEEE International Conference on*, volume 2, pages ii–973. IEEE, 2005.
- [60] Judith A Markowitz. Voice biometrics. *Communications of the ACM*, 43(9):66–73, 2000.
- [61] Ruth E Mayagoitia, Anand V Nene, and Peter H Veltink. Accelerometer and rate gyroscope measurement of kinematics: an inexpensive alternative to optical motion analysis systems. *Journal of biomechanics*, 35(4):537–542, 2002.
- [62] Rene Mayrhofer and Hans Gellersen. Shake well before use: Authentication based on accelerometer data. In *Pervasive computing*, pages 144–161. Springer, 2007.
- [63] C Meyerhoff, F Bischof, FJ Mennel, F Sternberg, J Bican, and EF Pfeiffer. On line continuous monitoring of blood lactate in men by a wearable device based upon an enzymatic amperometric lactate sensor. *Biosensors and Bioelectronics*, 8(9):409–414, 1993.
- [64] Pranav Mistry and Pattie Maes. Sixthsense: a wearable gestural interface. In *ACM SIGGRAPH ASIA 2009 Sketches*, page 11. ACM, 2009.
- [65] Fabian Monrose and Aviel D Rubin. Keystroke dynamics as a biometric for authentication. *Future Generation computer systems*, 2000.
- [66] Robert S Moore, Bernhard Firner, Chenren Xu, Richard Howard, Yanyong Zhang, and Richard P Martin. Building a practical sensing system. In *Green Computing and Communications (GreenCom), 2013 IEEE and Internet of Things (iThings/CPSCoM), IEEE International Conference on and IEEE Cyber, Physical and Social Computing*, pages 693–698. IEEE, 2013.
- [67] Lawrence O’Gorman. Comparing passwords, tokens, and biometrics for user authentication. *Proceedings of the IEEE*, 2003.
- [68] Fuminori Okumura, Akira Kubota, Yoshinori Hatori, Kenji Matsuo, Masayuki Hashimoto, and Atsushi Koike. A study on biometric authentication based on arm sweep action with acceleration sensor. In *IEEE ISPACS*, 2006.
- [69] Luca Palmerini, Laura Rocchi, Sabato Mellone, Franco Valzania, and Lorenzo Chiari. Feature selection for accelerometer-based posture analysis in parkinson’s disease. *Information Technology in Biomedicine, IEEE Transactions on*, 15(3):481–490, 2011.
- [70] Shwetak N Patel, Jeffrey S Pierce, and Gregory D Abowd. A gesture-based authentication scheme for untrusted public terminals. In *Proceedings of the 17th annual ACM symposium on User interface software and technology*, pages 157–160. ACM, 2004.
- [71] Susanna Pirttikangas, Kaori Fujinami, and Tatsuo Nakajima. Feature selection and activity recognition from wearable sensors. In *Ubiquitous Computing Systems*, pages 516–527. Springer, 2006.

- [72] Stephen J Preece, John Yannis Goulermas, Laurence PJ Kenney, and David Howard. A comparison of feature extraction methods for the classification of dynamic activities from accelerometer data. *Biomedical Engineering, IEEE Transactions on*, 56(3):871–879, 2009.
- [73] Tauhidur Rahman, Alexander T Adams, Mi Zhang, Erin Cherry, Bobby Zhou, Huaishu Peng, and Tanzeem Choudhury. Bodybeat: a mobile system for sensing non-speech body sounds. In *Proceedings of the 12th annual international conference on Mobile systems, applications, and services*, pages 2–13. ACM, 2014.
- [74] Douglas A Reynolds, Thomas F Quatieri, and Robert B Dunn. Speaker verification using adapted gaussian mixture models. *Digital signal processing*, 2000.
- [75] Angelo M Sabatini, Chiara Martelloni, Sergio Scapellato, and Filippo Cavallo. Assessment of walking features from foot inertial sensing. *Biomedical Engineering, IEEE Transactions on*, 52(3):486–494, 2005.
- [76] Napa Sae-Bae, Kowsar Ahmed, Katherine Isbister, and Nasir Memon. Biometric-rich gestures: a novel approach to authentication on multi-touch devices. In *ACM CHI*, 2012.
- [77] Jocelyn Scheirer, Raul Fernandez, and Rosalind W Picard. Expression glasses: a wearable device for facial expression recognition. In *CHI’99 Extended Abstracts on Human Factors in Computing Systems*, pages 262–263. ACM, 1999.
- [78] Muhammad Shahzad, Alex X Liu, and Arjmand Samuel. Secure unlocking of mobile touch screen devices by simple gestures: you can see it but you can not do it. In *Proceedings of the 19th annual international conference on Mobile computing & networking*, pages 39–50. ACM, 2013.
- [79] Michael Sherman, Gradeigh Clark, Yulong Yang, Shridatt Sugrim, Arttu Modig, Janne Lindqvist, Antti Oulasvirta, and Teemu Roos. User-generated free-form gestures for authentication: Security and memorability. In *ACM MobiSys*, 2014.
- [80] Thad Starner, Jake Auxier, Daniel Ashbrook, and Maribeth Gandy. The gesture pendant: A self-illuminating, wearable, infrared computer vision system for home automation control and medical monitoring. In *Wearable computers, the fourth international symposium on*, pages 87–94. IEEE, 2000.
- [81] Sarah V Stevenage, Mark S Nixon, and Kate Vince. Visual analysis of gait as a cue to identity. *Applied cognitive psychology*, 1999.
- [82] Tingting Sun, Wade Trappe, and Yanyong Zhang. Improved ap association management using machine learning. *ACM SIGMOBILE Mobile Computing and Communications Review*, 14(4):4–6, 2011.
- [83] Tingting Sun, Bin Zan, Yanyong Zhang, and Marco Gruteser. The boomerang protocol: tying data to geographic locations in mobile disconnected networks. *Mobile Computing, IEEE Transactions on*, 11(7):1113–1126, 2012.
- [84] Tingting Sun, Yanyong Zhang, and Wade Trappe. Improving access point association protocols through channel utilization and adaptive switching. In *Mobile Adhoc and Sensor Systems (MASS), 2011 IEEE 8th International Conference on*, pages 155–157. IEEE, 2011.
- [85] Tingting Sun, Yanyong Zhang, and Wade Trappe. Association attacks: Identifying association protocols. In *World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2012 IEEE International Symposium on*, pages 1–5. IEEE, 2012.
- [86] Tam Vu, Akash Baid, Yanyong Zhang, Thu D Nguyen, Junichiro Fukuyama, Richard P Martin, and Dipankar Raychaudhuri. Dmap: A shared hosting scheme for dynamic identifier to locator mappings in the global internet. In *Distributed Computing Systems (ICDCS), 2012 IEEE 32nd International Conference on*, pages 698–707. IEEE, 2012.
- [87] Tracy Westeyn and Thad Starner. Recognizing song-based blink patterns: Applications for restricted and universal access. In *IEEE FGR*, 2004.

- [88] Richard P Wildes. Iris recognition: an emerging biometric technology. *Proceedings of the IEEE*, 85(9):1348–1363, 1997.
- [89] R Williamson and BJ Andrews. Detecting absolute human knee angle and angular velocity using accelerometers and rate gyroscopes. *Medical and Biological Engineering and Computing*, 39(3):294–302, 2001.
- [90] Tiee-Jian Wu, John P Burke, and Daniel B Davison. A measure of dna sequence dissimilarity based on mahalanobis distance between frequencies of words. *Biometrics*, pages 1431–1439, 1997.
- [91] Chenren Xu, Bernhard Firner, Robert S Moore, Yanyong Zhang, Wade Trappe, Richard Howard, Feixiong Zhang, and Ning An. Scpl: indoor device-free multi-subject counting and localization using radio signal strength. In *Proceedings of the 12th international conference on Information processing in sensor networks*, pages 79–90. ACM, 2013.
- [92] Chenren Xu, Bernhard Firner, Yanyong Zhang, Richard Howard, Jun Li, and Xiaodong Lin. Improving rf-based device-free passive localization in cluttered indoor environments through probabilistic classification methods. In *Proceedings of the 11th international conference on Information Processing in Sensor Networks*, pages 209–220. ACM, 2012.
- [93] Chenren Xu, Mingchen Gao, Bernhard Firner, Yanyong Zhang, Richard Howard, and Jun Li. Poster: Towards robust device-free passive localization through automatic camera-assisted recalibration. In *Proceedings of the 10th ACM Conference on Embedded Network Sensor Systems*, pages 339–340. ACM, 2012.
- [94] Chenren Xu, Sugang Li, Gang Liu, Yanyong Zhang, Emiliano Miluzzo, Yih-Farn Chen, Jun Li, and Bernhard Firner. Crowd++: unsupervised speaker count with smartphones. In *Proceedings of the 2013 ACM international joint conference on Pervasive and ubiquitous computing*, pages 43–52. ACM, 2013.
- [95] W. Xu, W. Trappe, Y. Zhang, and T. Wood. The feasibility of launching and detecting jamming attacks in wireless networks. In *Proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (Mobihoc)*, 2005.
- [96] W. Xu, T. Wood, W. Trappe, and Y. Zhang. Channel Surfing and Spatial Retreats Defenses against Wireless Denial of Service. In *Proceedings of the Second ACM Workshop on Wireless Security (Wise 2004)*, pages 80–89, October 2004.
- [97] Roman V Yampolskiy. Motor-skill based biometrics. In *Annual Security Conference*, 2007.
- [98] Ping Yan and Kevin W Bowyer. Biometric recognition using 3d ear shape. *Pattern Analysis and Machine Intelligence, IEEE Transactions on*, 29(8):1297–1308, 2007.
- [99] S. Yu, A. Yang, and Y. Zhang. DADA: A 2-Dimensional Adaptive Node Schedule to Provide Smooth Sensor Network Services against Random Failures. In *Proceedings of the Workshop on Information Fusion and Dissemination in Wireless Sensor Networks*, 2005.
- [100] B. Zan, T. Sun, M. Gruteser, and Y. Zhang. The boomerang protocol: Tying data to geographic locations in mobile disconnected networks. In *Proceedings of the Eleventh International Conference on Mobile Data Management*, 2010.
- [101] Marcel Zentner and Tuomas Eerola. Rhythmic engagement with music in infancy. *Proceedings of the National Academy of Sciences*, 2010.
- [102] Feixiong Zhang, Kiran Nagaraja, Yanyong Zhang, and Dipankar Raychaudhuri. Content delivery in the mobilityfirst future internet architecture. In *Sarnoff Symposium (SARNOFF), 2012 35th IEEE*, pages 1–5. IEEE, 2012.
- [103] Feixiong Zhang, Alex Reznik, Hang Liu, Chenren Xu, Yanyong Zhang, and Ivan Seskar. Using orbit for evaluating wireless content-centric network transport. In *Proceedings of the 8th ACM international workshop on Wireless network testbeds, experimental evaluation & characterization*, pages 103–104. ACM, 2013.

- [104] Mi Zhang and Alexander A Sawchuk. A feature selection-based framework for human activity recognition using wearable multimodal sensors. In *Proceedings of the 6th International Conference on Body Area Networks*, pages 92–98. ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering), 2011.
- [105] Y. Zhang, A. Yang, A. Sivasubramaniam, and J. Moreira. Gang Scheduling Extensions for I/O Intensive Workloads. In *Proceedings of the 9th Workshop on Job Scheduling Strategies for Parallel Processing*, 2003.
- [106] Wenyi Zhao, Arvinth Krishnaswamy, Rama Chellappa, Daniel L Swets, and John Weng. Discriminant analysis of principal components for face recognition. In *Face Recognition*, pages 73–85. Springer, 1998.
- [107] Rong Zhu and Zhaoying Zhou. A real-time articulated human motion tracking using tri-axis inertial/magnetic sensors package. *Neural Systems and Rehabilitation Engineering, IEEE Transactions on*, 12(2):295–302, 2004.