

# Publications

## Thesis

- **D. Jayagopi.** *Computational modeling of face-to-face interaction using nonverbal behavioral cues*, PhD thesis, Electrical Engineering department,
- **D. Jayagopi.** *Adaptive filtering using interpolated filter banks*, Masters thesis, Electrical Engineering department, Indian Institute of Science, Bangalore. Ecole Polytechnique de Fédérale de Lausanne (EPFL), Switzerland

## Journal Publications

- **D. Jayagopi**, T. Kim, Alex (Sandy) Pentland, and D. Gatica-Perez. *Privacy-sensitive recognition of group conversational context with sociometers*, Multimedia Systems, 2012, Volume 18, Number 1, Pages 3-14.
- **D. Jayagopi**, and D. Gatica-Perez. *Mining group nonverbal conversational patterns using probabilistic topic models*, published in IEEE Transactions on Multimedia, 2010, 12(8), 790-802.
- **D. Jayagopi**, H. Hung, C. Yeo, and D. Gatica-Perez. *Modeling dominance in group conversations from nonverbal activity cues*, published in IEEE Transactions on Audio, Speech and Language Processing, 2009,17(3), 501-513.
- K. Rajgopal, **J. Dinesh Babu** and S. Venkataraman, *Generalized adaptive IFIR filter bank structures*, Elsevier Signal Processing, 2007, 87(7), 1575-1596.

## Conference Publications

- **D. Jayagopi**, T. Kim, Alex (Sandy) Pentland, and D. Gatica-Perez. *Recognizing conversational context in group interaction using privacy-sensitive mobile sensors*, in Proc. International Conference on Mobile and Ubiquitous Multimedia (MUM), Limassol, Cyprus, Dec 2010.
- D. Saches-Cortes, **D. Jayagopi**, and D. Gatica-Perez. *Predicting Remote Versus Collocated Group Interactions using Nonverbal Cues*, in Proc. Workshop on Multimodal Sensor-Based Systems and Mobile Phones for Social Computing - International Conference on Multimodal Interfaces (ICMI-MLMI), Cambridge, Nov 2009.
- **D. Jayagopi**, and D. Gatica-Perez. *Discovering Group Nonverbal Conversational Patterns with Topics*, in Proc. International Conference on Multimodal Interfaces (ICMI-MLMI), Cambridge, Nov 2009.
- **D. Jayagopi**, B. Raducanu and D. Gatica-Perez. *Characterizing Conversational Group Dynamics using Nonverbal Behaviour*, in Proc. International Conference on Multimedia and Expo. (ICME) 2009.
- **D. Jayagopi**, S. Ba, J-M. Odobez and D. Gatica-Perez. *Predicting two facets of social verticality in meetings from five-minute time slices and nonverbal cues*, in Proc. International Conference on Multimodal Interfaces (ICMI) 2008, special session on Social Signal Processing.
- H. Hung, **D. Jayagopi**, S. Ba, J-M. Odobez and D. Gatica-Perez. *Investigating automatic dominance estimation in groups from visual attention and speaking activity*, in Proc. International Conference on Multimodal Interfaces (ICMI), 2008.

- **D. Jayagopi**, H. Hung, C. Yeo, and D. Gatica-Perez. *Predicting the dominant clique in meetings through fusion of nonverbal cues*, in Proc. ACM International Conference on Multimedia (ACM MM) 2008.
- H. Hung, **D. Jayagopi**, C. Yeo, G. Friedland, S. Ba, J.-M. Odobez, K. Ramchandran, N. Mirghafori, and D. Gatica-Perez *Using audio and video features to classify the most dominant person in meetings*, in Proc. ACM Int. Conf. on Multimedia (ACM MM), Oldenburg, Sep. 2007.
- K. Rajgopal, **J. Dinesh Babu** (2003) *A Delayless IFIR Adaptive Filter Structure With adapted Filterbank* in Proc. Conference on Convergent Technologies for the Asia-Pacific Region: IEEE TENCON 2003, pages Vol.3 1051-1054, Bangalore, India.