

## **Florian Metze**

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## **Professional Preparation**

- Dr.-Ing., Fakultät für Informatik der Universität Karlsruhe (TH), Germany (Ph.D. in Computer Science), 2005
- Diplom in Physik, Ludwig-Maximilians-Universität München (M.S. in Physics), 1998

## **Appointments**

- 01/2009 – present Assistant Research Professor, Carnegie Mellon University
- 03/2006 – 01/2009 Senior Research Scientist, T-Labs/ TU Berlin
- 05/1999 – 12/2005 Research Assistant, Universität Karlsruhe (TH), now KIT

## **Significant Publications**

- [1] F. Metze, D. Ding, E. Younessian, and A. Hauptmann. Beyond audio and video retrieval: Topic oriented multimedia summarization. *International Journal of Multimedia Information Retrieval*, 2012. Springer.
- [2] K. Livescu, E. Fosler-Lussier, and F. Metze. Sub-word modeling for automatic speech recognition. *Signal Processing Magazine* 29(6), 2012. IEEE.
- [3] T. Polzehl, S. Möller, and F. Metze. AUTOMATICALLY ASSESSING ACOUSTIC MANIFESTATIONS OF PERSONALITY IN SPEECH. In *Proc. IEEE SLT Workshop*, Berkeley, CA; USA, December 2010. IEEE.
- [4] P. Sheu, H. Yu, C. V. Ramamoorthy, A. K. Joshi, and L. A. Zadeh, (eds). *Semantic Computing*, ch. Social and Expert Search in Online Communities. IEEE/ Wiley, 2009.
- [5] F. Metze. Discriminative speaker adaptation using articulatory features. *Speech Communication* 49(5), 2007.

## **Related Publications**

- [1] F. Metze, S. Rawat, and Y. Wang. Improved audio features for large-scale multimedia event detection. In *Proc. ICME*, Chengdu; China, July 2014. IEEE.
- [2] Z.-Z. Lan, L. Jiang, S.-I Yu, C. Gao, S. Rawat, Y. Cai, S. Xu, H. Shen, X. Li, Y. Wang, W. Sze, Y. Yan, Z. Ma, N. Ballas, D. Meng, W. Tong, Y. Yang, S. Burger, F. Metze, R. Singh, B. Raj, R. Stern, T. Mitamura, E. Nyberg, and A. Hauptmann. *Informedia E-Lamp @ TrecVID 2013 – Multimedia event detection and recounting (MED and MER)*. In *Proc. TrecVID*, Gaithersburg, MD; USA, November 2013. NIST.
- [3] F. Metze and E. Fosler-Lussier. The speech recognition virtual kitchen: An initial prototype. In *Proc. INTERSPEECH*, Portland, OR, September 2012. ISCA.
- [4] F. Metze, C. Bauckhage, T. Alpcan, K. Dobbrott, and C. Clemens. The “SPREE” expert finding system. In *Proc. ICSC*, Irvine, CA; USA, September 2007. IEEE.

[5] F. Metze et al. THE 'FAME' INTERACTIVE SPACE. In Proc. MLMI2005, Edinburgh; UK, July 2005. Springer.

### **Synergistic Activities**

Dr. Metze regularly serves as reviewer and member of the technical program committee for conferences such as ISCA INTERSPEECH, IEEE ICASSP, ASRU and SLT, HLT/ NAACL, IEEE ICSC, ACM Multimedia, ICMR, etc. He also serves as reviewer for journals, such as IEEE TASLP, Computer Speech and Language, Speech Communication, International Journal on Universal Access in the Information Society. He was conference chair for IEEE 4<sup>th</sup> International Conference on Semantic Computing (ICSC) 2010, and is co-organizer of workshops and special sessions such as MAMCA 2011@ICME, MediaEval 2012, etc. He is a member of the IEEE, an elected member of the IEEE Speech and Language Technical Committee, the International Speech Communication Association (ISCA), the Project Management Institute (PMI), the Association for Computing Machinery (ACM), the Institute of Semantic Computing (ISC), and the Gesellschaft für Informatik (GI). He co-founded the open-source “Spree” software and wrote significant parts of the “Ibis” speech decoder within JRTk, which is in use at research institutions world-wide.

### **Collaborators & Co-Editors**

J. Ajmera (IBM), S. Albayrak (TU Berlin), T. Alpcan (TU Berlin), X. Anguera (Telefonica), R. Bates (MNSU), A. Batliner (Uni Erlangen), C. Bauckhage (Fraunhofer), U. Bub (T-Labs), R. Englert (T-Labs), E. Fosler-Lussier (OSU), G. Friedland (ICSI), C. Fügen (KIT), Q. Jin (IBM), M. Kam (AEI), S. Khudanpur (JHU), M. Larson (TU Delft), L. Mangu (IBM), S. Möller (TU Berlin), C. Müller (DFKI), D. Povey (JHU), N. Rajput (IBM), T. Schaaf (M\*Modal), B. Schuller (TU München), T. Schultz (KIT), P. Sheu (UCI), J. Stegmann (DTAG), S. Steidl (Uni Erlangen), R. Stiefelhagen (KIT), S. Stüker (KIT), S. Vogel (QNRf), M. Wagner (Uni Canberra), A. Waibel (KIT).

### **Graduate and Postdoctoral Advisors**

- Prof. Dr. Alex Waibel (CMU/ KIT)
- Prof. Dr. Lori Lamel (LIMSI-CNRS)
- Prof. Dr. Sebastian Möller (TU Berlin)

### **Thesis Advisor and Postgraduate-Scholar Sponsor**

Current PhD advisees:

- Tim Polzehl (TU Berlin)
- Anuj Kumar, Udhyakumar Nallasamy, Yajie Miao, Yun Wang (CMU)

Current Masters advisees:

- Ankur Ghande, Nikolas Wolfe, Lara Martin, Hao Zhang, Allen Kuo, Di Xu (CMU)