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IEEE SIGNAL PROCESSING MAGAZINE

Special Issue on Mobile Media Search

The proliferation of mobile and hand-held devices along with advances in multimodal and multimedia technologies are giving birth to a new wave of mobile applications that enable users to quickly and more naturally find information. Mobility is central to these applications that capitalize on multimodal input to search for media such as videos, music, business listings, products and services, or to surf the web or send an SMS.

The commercialization of mobile media search applications is giving rise to new technical challenges. Examples of these challenges include creating speech recognition systems that are robust to surrounding noisy environments, robust image features and matching methods suitable for mobile devices, searching through a large amount of unstructured and semi-structured data, understanding a variety of inquiries from keywords to natural language questions, summarization of multimedia search results, and personalizing the user interface to more easily adapt to preferences and geo-locations.

Scope of Topics (Limited to Mobile Search):

- Image, video and multimedia search
- Voice recognition for mobile search
- Text-based Information Retrieval
- Efficient and robust image feature extraction and matching for mobile devices
- Summarization of multimedia search results
- Microphone arrays, echo cancellation & Bluetooth for mobile phones in cars
- Natural language processing for mobile text and voice search
- Multimodal processing in mobile devices
- Human factor studies and personalization in mobile search
- Mobile media search applications, platforms and standards
- Economics of mobile search

Submission procedure:

White papers, limited to 2 single-space double-column pages, should summarize the motivation, the significance of the topic, a brief summary, an outline of the content and key references. Prospective authors should use the web submission system at <http://mc.manuscriptcentral.com/spmag-ieee>.

Tentative Schedule:

White paper due:	February 26, 2010
Invitation notification:	April 1, 2010
Manuscript due:	September 1, 2010
Acceptance Notification:	January 15, 2011
Final Manuscript due:	March 1, 2011
Publication date:	July 2011

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