

Call-for-Papers

Special Session on Analysis of Multimedia Data for Medicine and Health

to be held at the **International Conference on
Content-Based Multimedia Indexing (CBMI 2018)**

4-6 September 2018 / La Rochelle, France

Within the last decade we have observed the emergence of multimedia data analysis and indexing in many new domains, including medicine and personal health. For example, in the field of medical surgery, interventional videos are nowadays recorded and stored in a long-term archive, in order to analyze and use them for post-procedural scenarios, such as operation documentation, surgical error analysis, as well as training and teaching surgery techniques. Similarly, in the field of personal health, images from lifelogging cameras are used to track sports activities, to compute calories consumption, and to create memories for elderly people with dementia, for example. Other relevant lines of research include analysis of medical images for diagnosis decision support, multimedia analysis and multimodal interaction with social agents for basic care, video monitoring and multimedia fusion for remote management of patients. This special session aims to bring together researchers working on analysis and indexing of multimedia data in the field of medicine and health and to provide them a venue for sharing novel ideas and discussing their most-recent works.

Topics of interest include (but are not limited to):

- Medical image analysis/indexing
- Medical video analysis/indexing (e.g., endoscopic videos, microscopic medical videos, OR-videos)
- Surgical Quality Assessment (e.g., error analysis through images or videos)
- Image and video analysis from personal sensors (e.g., lifelogging cameras) for the purpose of health
- Lifelog data analysis in general
- Personal experiences of long-term health/wellness studies
- Multimedia analysis and retrieval for multimodal interaction in the health domain
- Multimodal conversation and dialogue systems for social companion agents
- Speech and audio analysis and retrieval for health applications
- Facial analysis and gesture recognition of patients
- Fusion of multimedia information for health and care-giving applications
- Semantic web approaches for multimedia health applications
- Visual analytics for human machine interaction in the health domain

Submission:

Authors are invited to submit full length papers (6 pages in IEEE double-column format) via the EasyChair system of [CBMI 2018](#). Each submission will be peer-reviewed by at least 3 PC members (single-blind).

Important note: The title and the header of the paper should include the mention “**Submitted to Special Session on Analysis of Multimedia Data for Medicine and Health**” (e.g., as sub-title) to avoid any misclassification.

Organizers:

- Klaus Schoeffmann, Klagenfurt University, Austria, ks@itec.aau.at
- Cathal Gurrin, Dublin City University, Ireland, cathal.gurrin@dcu.ie
- Stefanos Vrochidis, ITI, CERTH, Greece, stefanos@iti.gr
- Oge Marques, Florida Atlantic University, FL, USA, omarques@fau.edu

Important dates:

- Paper submission: **May 18, 2018**
- Notification of acceptance: **June 29, 2018**
- Camera-ready papers due: **July 13, 2018**

More details: <http://cbmi2018.univ-lr.fr/cfp-special-session-on-analysis-of-multimedia-data-for-medicine-and-health/>