

Transactions on Mass Data  
Analysis of Images and Signals  
Vol. 8, No. 1 (2017), 1  
© 2017, ibai-publishing,  
ISSN: 1868-6451,  
ISBN: 978-3-942952-55-2  
Online ISSN 2509-9353

**ibai** Publishing  

---

www.ibai-publishing.org

## Editorial

Martha Kundt

Institute of Computer Vision and applied Computer Sciences, IBaI, Leipzig. Germany

This issue of the journal presents findings of two interesting studies showing not only how the research field of case-based reasoning has been exploring diverse areas of applications, but also how important theoretical research is in this field, making this study area increasingly important in computer science research.

The first paper deals with telemedicine communication systems. The work modelled systems dedicated to telemedicine with randomized pulse modulation data traffic using a finite Markov chains. The study focused on improving the telemedicine systems` reliability using randomized pulse width modulation [1].

The second article focusses on the hypotheses-verification process, a crucial step of the matching process. The paper reviews what has been done so far and presents hypothesis-verification rules. There are two different hypothesis-verification rules considered, one is based on set-theory and the other one is based on statistical measures. Finally, they describe the results achieved so far and give an outlook about further work [2].

Leipzig, 2017

Martha Kundt

### References

1. Ciufudean C.: Sustainable Markov Chain Models for Telemedicine. Transactions on Mass Data Analysis of Images and Signals 8(1), 3-17 (2017).
2. Perner P.: Verification of Hypotheses generated by Case-Based Reasoning Object Matching. Transactions on Mass Data Analysis of Images and Signals 8(1), 17-30 (2017).