2016 IEEE International Symposium on

MeMeA | Medical Measurements and Applications

BENEVENTO | ITALY
MAY 16 - 18, 2016

IEEE

IEEE INSTRUMENTATION & MEASUREMENT SOCIETY
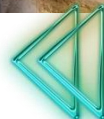
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CALL FOR PAPERS
FOR THE SPECIAL SESSION

SOFT COMPUTING TECHNIQUES FOR IMPROVING MEDICAL SAFETY AND INDEPENDENT LIVING

ABSTRACT

In the last five decades, new computational techniques and methodologies have been developed for the solution of today's complex and difficult problems in engineering and science. Due to their flexibility, robustness, and easy interpretability, the application of soft computing models has got an exceptional role at many fields, especially in cases where the problem to be solved proved to be dynamically changing, highly nonlinear, or when only partial, uncertain and/or inaccurate data is available. Medical analysis of the human body and the fields of medical modeling, processing, diagnostics, supervision, and supporting are excellent examples to demonstrate the strength, improvement, and new possibilities of intelligent methods in ensuring improved quality, safe and independent living.

The goal of this special session is to offer a forum for to survey of the current state-of-the-art and for reporting recent advances of the field. It also aims to provide a venue for discussions and interaction among scientists, engineers, and clinicians, highlighting also the importance of linking the scientific communities working in the fields of intelligent systems, medical engineering, and medical attendance.

All the papers reporting about research related to the above-mentioned topics are welcome.

TOPICS

- Fuzzy Models and Algorithms in Medical Engineering and Medical Attendance
- Neural Network Models and Algorithms in Medical Engineering and Medical Attendance
- Genetic Method in Medical Engineering and Medical Attendance
- Anytime Models and Algorithms in Medical Engineering and Medical Attendance
- ISpace Applications
- Soft Computing Based Ambient Assisted Living Systems
- Human-Computer Interaction for Smart Environment Applications
- Intelligent Machines Supporting the Quality and Safety of Independent Life of Elderly and/or Ill Humans

ORGANIZER

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Annamária R. Várkonyi-Kóczy (IEEE M'94–SM'97–F'07) was born in Budapest, Hungary, in 1957. She received the M.Sc. E.E., M.Sc.M.E.-T., and Ph.D. degrees from the Technical University of Budapest in 1981, 1983, and 1996, respectively. In 2010 she presented her D.Sc. Thesis at the Hungarian Academy of Sciences. Her current research interests include digital image- and signal processing, modeling and diagnostics, and soft computing, anytime, and hybrid techniques in complex measurement, diagnostics, and control systems. She has published more than 260 technical papers, authored/co-authored 26 books. Dr.Várkonyi-Kóczy is founding chair of the IEEE-WISP and IEEE-SOFA symposium series, has held leadership roles on the organization and technical program committees of numerous international conferences. She is elected member of the Hungarian Academy of Engineers and formal Vice President of the Hungarian Fuzzy Association.

DATES

> **January 17, 2016** - Submission of Final Paper (5-6 pages) - first version

> **March 10, 2016** – Submission of revised Final Paper

> **April 4, 2016** - Final Submission, Registration

SUBMISSION

Prospective authors must electronically submit a final paper (5-6 pages, including figures) by January 10, 2016, by pointing out the related Special Session.

All papers will receive multiple peer reviews; authors will receive timely notification of paper acceptance. If accepted, final papers must be no more than 6 pages and will be submitted electronically.

Papers must be presented at the conference orally by an author, will appear in the final conference proceedings, and will be indexed in the Scopus citation index.

MORE INFORMATION

For further information, please visit MeMeA2016 website at

memea2016.ieee-ims.org

CONTACT

memea2016.ieee-ims.org/contact

BENEVENTO

Benevento, due to the Santa Sofia's Church with its Cloister, has been part of UNESCO World Heritage Sites as "Longobards in Italy. Places of the power".