

2016 IEEE International Symposium on

# MeMeA

**Medical  
Measurements  
and Applications**
**MAY 16 - 18, 2016  
BENEVENTO ITALY**
**2006 - 2016 : Back to Benevento**


# CALL FOR PAPERS

# FOR THE SPECIAL SESSION

# Metrology for Ophthalmology



## ABSTRACT

Ophthalmology is a very important field of medicine. Without it, millions of people would not be able to live normal lives. The eye has its own peculiar diseases but also illness affecting other organs of the body can be detected in the eye grounds, before any clinical symptoms are noticed by the patient. Measurement plays an essential role in ophthalmology medical decision-making. Measurements are also incorporated within studies based on statistical analysis and conclusions of clinical trials, as well as the development of new technologies. Therefore, measurements are fundamental processes in the prevention, diagnosis, treatment of eye diseases, risk assessment and monitoring. The purpose of this special session is to gather the experiences of the researchers working in these areas and interested in sharing their results. All the papers addressing the mentioned topics are welcome.

All presented papers will be included in the conference proceedings and submitted to the databases of IEEExplore.

## CHAIRS



**P.E. Eulalia Balestrieri, Ph.D.**  
*University of Sannio, Italy*  
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Eulalia Balestrieri achieved her master degree in Computer Science in 2003 and her Ph.D. in Computer Science in 2007 from the University of Sannio in Benevento. Since March 2003 she collaborates with the research activities carried out at the Laboratory of Signal Processing and Measurement Information (LESIM), at the University of Sannio. Her research activities are related to: (i) Methods for characterization and compensation of the analog to digital and digital to analogue converters; (ii) Standards for the calibration of automated instrumentation for non-invasive measurement of blood pressure; (iii) Design of a prototype portable space cytometer; (iv) Choroidal vessel characterization using en-face optical coherence tomography measurement. She received the Certificate of Appreciation from the IEEE Standards Association "for outstanding contributions to the development of IEEE Standard 12421-2010 IEEE Standard for Terminology and Test Methods for Analog-to-Digital Converters".



**Gilda Cennamo, Ph.D.**  
*University Federico II, Italy*  
xgilda@hotmail.it

Gilda Cennamo achieved her master degree in Medicine in 1998 cum laude from the University of Naples, "Federico II" and her Ph.D. in Hypovision and Visual Rehabilitation in 2005 from the University of Catania. In 2002 she achieved the Specialization in Ophthalmology, I class, cum laude. In 2003 she won the Merz Shaarp & Dohme Award for the best presentation at the Italian Ophthalmic Laser Society Congress. In 2002-2003 she was Winner of the Merz Shaarp & Dohme Award for the best presentation at the Italian Ophthalmic Laser Society Congress. From 2003 up to the present, she is full-time ophthalmologist in the Department of Ophthalmology, the University of Naples Teaching Hospital "Federico II", specializing in retinal disease. Her research interests include: retinal disease, fluorescein angiography and laser therapy.



**Mario Romano, Ph.D.**  
*University Federico II, Italy*  
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Mario Romano originally from the University of Naples, Italy, where he graduated in Medicine with first class honors, enriched his training in Ophthalmology with clinical and research activities in highly recognized international centers. He completed: (i) a research fellowship in vitreo-retinal diseases at the Massachusetts Eye & Ear Infirmary, Harvard Medical School in Boston, USA (2005-2006); (ii) clinical fellowship in vitreo-retinal surgery at the Royal Liverpool University Hospital in Liverpool, UK (2007-2008). He achieved his PhD in Pharmacology and Molecular Oncology at University of Ferrara, Italy in 2010. He is the author of 30 book chapters, and 2 books. He also is inventor of two patents entitled "Device to monitor the patient's posture after vitrectomy" (RM2010A000241); and "Temperature-monitoring vitrector" (VR2012A000122). Dr Romano received many international Awards and serves as a referee for several international peer-reviewed journals. The research activity was focused on surgical topics such as subretinal surgery, intraocular tamponades, vitreo-retinal surgery of retinal detachment and epiretinal proliferation, genotype and phenotype predictor factors influencing visual prognosis of patients affected by age related macular degeneration.



**Professor Nicola Rosa**  
*University of Salerno, Italy*  
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Prof. Nicola Rosa graduated from Federico II, University of Naples, where he also completed his ophthalmology residency. After, he completed a fellowship in ophthalmic echography with Karl Ossonig at the University of Iowa. He received numerous national and international awards. He is on the editorial board of the journal: Case Report in Ophthalmological Medicine and serves as a scientific reviewer for many international journals. He is a former Chairman of the Eye Department, Second University of Naples, Italy, currently he is full professor of ophthalmology at the University of Salerno, Italy. Dr Rosa is past President of the International Society for Diagnostic Ultrasound in Ophthalmology, Vice-President Società Italiana di Ecografia in Oftalmologia (SIEO) and Associazione Campana Glaucoma (ASCG). He is a member of the American Academy of Ophthalmology, The European Society of Cataract and Refractive surgery and other national scientific societies. He has authored and co-authored more than 400 scientific papers, 78 of them in peer reviewed journals.

## TOPICS

Topics of interest include but are not limited to:

- Eye physiological simulation and modeling
- Eye monitoring and diagnostic systems
- Characterization of instruments for ophthalmology applications
- Image and video processing for ophthalmology
- Standards for ophthalmology medical applications
- Ophthalmology medical and instrumentation uncertainty
- Eye Patient safety
- Sensors for ophthalmology medical systems
- Laser applications for ophthalmology
- Eye tracking

## 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.

## 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".



## MORE INFO

For further information, please visit MeMeA2016 website at



[memea2016.ieee-ims.org](http://memea2016.ieee-ims.org)