

# REV 2020 – Call for Special Session Papers

February 26<sup>th</sup> – 28<sup>th</sup>, 2020, University of Georgia (Athens, GA, USA)



17<sup>th</sup> International Conference on Remote Engineering and Virtual Instrumentation:  
Cross Reality and Data Science in Engineering

## Special Session: 'Biomedical Engineering and Computing' (BiomEC'20)

Biomedical Engineering plays an important role in medicine, with impact ranging from AI and Cyber-Physical Systems to the Internet of Things. The objective of this special session is to report and discuss experimental, technological, and computational applications and experiences within the multidisciplinary field of Biomedical Engineering and Medical Computing. This Special Session can serve as a contributor to bridging the gap between academic developments and the technological needs in medicine, as well as fostering advances in health care in areas such as diagnosis, monitoring, physical therapy, occupational therapy, disability support, and intelligent medical systems.

### Special Session Chairs

M. Teresa Restivo, University of Porto, Portugal, [trestivo@gcloud.fe.up.pt](mailto:trestivo@gcloud.fe.up.pt)  
James Wolfer, Indiana University South Bend, USA, [jwolfer@iusb.edu](mailto:jwolfer@iusb.edu)  
Paulo Menezes, University of Coimbra, Portugal, [pm@deec.uc.pt](mailto:pm@deec.uc.pt)

### Program Committee Members

Alberto Cardoso, Univ. of Coimbra, PT,  
Andreas Pester, Carinthia Univ. of Ap. Sc., AU  
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Bruno Patrão, Univ. of Coimbra, PT  
Dana Vrajitoru, Indiana Univ. South Bend, US  
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Murlidharan Nair, Indiana Univ.  
South Bend, US  
Paulo Abreu, Univ. of Porto, PT  
Renato Natal Jorge, Univ. of Porto, PT  
Sanobar Dar, Aston Univ., UK  
Victoria Lush, Aston Univ., UK

### Special Session Topics of Interest

Artificial Intelligence in Medicine  
Automation Technology for Medical Applications  
Big Data in Medicine  
Biomedical Devices  
Biomedical Micro and Nano Systems  
Biosensors  
Bio signal Processing  
Clinical Engineering and Hospital Technology  
Collaboration tools such as social media, web apps, patient education  
Data Analytics, Data Mining and Machine Learning  
Deep Learning in Medicine  
Devices and Systems for Remote Surgical Intervention  
eHealth, mHealth  
Electronic Healthcare  
Ethical Considerations for Engineering and Computing in Medicine  
Haptics in Healthcare  
Health Data Acquisition, Management and Visualization  
Immersive Environments for health care  
Robotics in Health  
ICT in Biomedical sciences  
Interactive 3-D Models  
Medical Apps  
Medical Image Processing  
Natural Language Processing in Medicine  
Neural Networks and Evolutionary Systems in Medicine  
Remote Monitoring  
Workflow Management in Medicine

### General Chair

Michael E. Auer, Founding IAOE President & CEO

### REV2020 Chair

Dominik May, UGA & IAOE Vice-President

### Review / Proceedings

All submissions are subject to a double-blind reviewing process. All accepted submissions will be published as REV2020 Proceedings in Springer 'Lecture Notes in Networks and Systems'.

### Important Dates

|             |   |
|-------------|---|
| 22 Nov 2019 | Submission deadline for complete special session papers |
| 01 Dec 2019 | Notification of Acceptance                              |
| 15 Dec 2019 | Camera-ready due  |
| 03 Jan 2020 | Author registration                                     |
| 26 Feb 2020 | Conference opening                                      |

### More Information

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