**REV 2020 – Call for Special Session Papers**

February 26th – 28th, 2020, University of Georgia (Athens, GA, USA)

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**17th 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
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Paulo Menezes, University of Coimbra, Portugal, pm@deec.uc.pt

**Program Committee Members**

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Renato Natal Jorge, Univ. of Porto, PT
Sanobar Dar, Aston Univ., UK
Victoria Lush, Aston Univ., UK

**Important Dates**

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<tr>
<td>22 Nov 2019</td>
<td>Submission deadline for complete special session papers</td>
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<tr>
<td>01 Dec 2019</td>
<td>Notification of Acceptance</td>
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<td>15 Dec 2019</td>
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<td>03 Jan 2020</td>
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**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’.

**More Information**

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