



## Frontiers of Biomedical Engineering Symposia at EMBC 2016

Minisymposium: ThBT19 & FrBT19  
Location: Grand Republic C

At EMBC 2016, we will continue the Symposia on the Frontiers of Biomedical Engineering, which is slightly different from the rest of the conference.

The goal of this Symposium format is to present to the biomedical community the current needs and future directions of the Technical Committees (TCs) of the IEEE EMB Society. The TCs are the foundations for the technical vitality and leadership of the IEEE EMB Society. Therefore, these presentations are different from a conventional oral presentation because they relate to a broader discussion of each technical area and how the organization of the research topics is happening.

If you are interested in learning the important EMB technical topics, and in participating in defining the future technical areas of biomedical engineering, then you should attend this Symposium.

The speakers are the TC Chairs who are coordinating and promoting the innovation that is happening in our society. They will provide a 15-minute outline of what each TC is doing, how it is organized, what has been accomplished, what are the bottlenecks and the future directions for research.

This is also an opportunity for the conference participants to interact with the technical leaders of the society, and hopefully volunteer to participate in the technical activities of the IEEE EMB Society.

### Schedule

**Thursday August 18** (11:00- 12:30)  
Grand Republic C (ThBT19)

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| 11:00- 11:05   | Welcome: Jose Principe                                                    |
| 11:00 - 11:15  | Biomedical Signal Processing<br>Presenter: Laura Astolfi                  |
| 11:15- 11:30   | Biomedical Imaging and Image<br>Processing<br>Presenter: Marius Linguraru |
| 11:30- 11:45   | Biomedical and Health<br>Informatics<br>Presenter: Stephen Wong           |
| 11:45- 12:00   | Computational Biology and the<br>Physiome<br>Presenter: Ahmet Erdemir     |
| 12:00 - 12: 15 | Therapeutic Systems and<br>Technologies<br>Presenter: Punit Prakash       |
| 12:15 - 12:30  | NeuroEngineering<br>Presenter: Silvestro Micera                           |

**Friday August 19** (11:00- 12:30)  
Grand Republic C (FrBT19)

|               |                                                                                   |
|---------------|-----------------------------------------------------------------------------------|
| 11:00 - 11:05 | Welcome: Jose Principe                                                            |
| 11:05 - 11:25 | Bionanotechnology and<br>BioMEMs<br>Presenters: Michele Khein &<br>Esmail Jabbari |
| 11:25- 11:40  | Wearable Biomedical Sensors<br>and Systems<br>Presenter: Carmen Poon              |
| 11:40 - 11:55 | BioRobotics<br>Presenter: Alicia Casals                                           |
| 11:55 - 12:10 | Cardiopulmonary Systems<br>Presenter: Thomas Penzel                               |
| 12:10 - 12:25 | Translational Eng. &<br>Healthcare Innovation<br>Presenter: Atam Dhawan           |