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**The 44th Annual Conference of the IEEE Industrial Electronics Society**

**Washington D.C., USA**

**October 21 – 23, 2018**

**Special Session on *Human-System Interaction in Smart Environments***

**organized and co-chaired by:**

**Prof. Jacek Ruminski, Gdansk University of Technology, Poland, jacek.ruminski@pg.edu.pl**

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**Call for Papers**

**Outline of the Session**

The organizers propose a Special Session to discuss recent topics focused on Human-System Interaction in smart environments. Smart devices, robots, rehabilitation devices, and autonomous vehicles are only a few examples of smart objects that offer new possibilities to develop innovative interaction techniques. Such new possibilities as well as related requirements are especially important for smart spaces like smart homes, smart hospitals, etc. The rapid development of intelligent technologies requires a fast response of the research community. Therefore, the organizers invite researchers, professionals and students to discuss latest Human-System Interaction advancements.

**Topics of the Session**

* *Interaction Methods for Autonomous Cars and Vehicles*
* *Driver-Car Interaction and contactless monitoring of a Driver in Assisted Driving*
* *Interaction Techniques for Smart Homes*
* *Human System Interaction in Smart Cities*
* *Gestures and Smart Devices*
* *Human-Robot Interaction and Robot-Robot Interaction*
* *Modern Interaction Methods in Health Industry*
* *Patient-Device Interaction in Rehabilitation and Tele-rehabilitation*
* *Interaction Techniques in Serious Games Industry*
* *Deep Learning for Human System Interaction*
* *Applications of Human System Interaction Techniques in Industrial Systems and Processes*

**Author’s schedule:**

**Deadline for submission of special session papers May 1, 2018**

**Notification of acceptance July 15, 2018**

**Deadline for submission of final manuscripts August 1, 2018**

For instructions on paper submission, please visit conference website: <http://www.iecon2018.org/>.