

IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS ICM'17

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Special Session on

“Auto-Supplied Sensors and Low-Power Electronics”

Organized by

Principal Organizer(s): (Stanimir Valtchev, ssv@fet.unl.pt, University Nova of Lisbon, Portugal)

Call for Papers

Theme:

The sensors technology nowadays is entering the area of Low-Power Electronics, especially for applications with difficult access, e.g. medical implants and wearable devices, distributed sensors networks, ubiquitously deployed in larger areas. These low-power-consuming electronic devices are also used for the low-power-production in the “energy harvesting” from the environment. The harvesting is especially important for the newly appeared devices that are expected to consume 100 times lower power, e.g. the Tunnel FETs, which can obtain energy from extremely low power sources: artificial light, electromagnetic emissions, vibrations, thermal gradients, etc. In short: Micro energy producers supplying micro consuming sensors.

Topics of interest include, but are not limited to:

- Energy Harvesting (very low voltage, low power)
- Tunnel FET (various versions)
- Wearable Sensors
- Life Supporting Microelectronic Devices
- Distributable Micro Sensors
- Nano Sensors
- MEMS, especially for harvesting

. **Manuscript Preparation and Submission:**

Authors should be aware that papers will follow the rules for paper submission to ICM'17 conference. Please check carefully the style and policy of ICM'17 described in the guidelines “Information for Authors” on the web site <http://www.ieee-icm2017.org/authors.php>