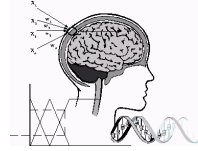




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session: From Computational Thinking towards Smart Education

Name of Chair:

Dr. Gara Miranda Valladares
University of La Laguna
Department of Computer Engineering and Systems

Details of Session:

Computational thinking can be understood as a way of addressing and solving problems. When applying computational thinking in a problem-solving process, some basic and fundamental concepts in Computer Science are applied: modelling, data representation, algorithmic procedures, etc. By the application of such mechanisms we obtain solution procedures which can be easily implemented in a computer system. Computational thinking plays an important role, not only in the field of programming or software development, but also in the way people think and understand the world. In fact, computational thinking can be seen as a skill or ability for solving general and common everyday life problems. In this sense, many initiatives have emerged in order to promote and try to develop computational thinking, especially among children and young people.

For that reason, the main objective of this session is to share proposals, experiences, methodologies or tools which can help teachers to promote and develop computational thinking among students.

Topics of interest include, but are not limited to, the following:

- Experiences at primary, secondary or higher education
- Tools and resources for computational thinking
- Promoting computational thinking
- Developing computational thinking
- Measuring computational thinking

Website URL (if any):

Email & Contact Details:

gmiranda@ull.es
Dr. Gara Miranda Valladares
University of La Laguna
Department of Computer Engineering and Systems
Avda. Astrofísico Fco. Sánchez, s/n
Edificio de Física y Matemáticas, 4ª planta
38271, San Cristóbal de La Laguna
Santa Cruz de Tenerife, SPAIN