



**IEEE Education Society Vicepresident of Educational Activities and Awards**  
**Edmundo Tovar**  
**Report to the IEEE EdSoc BoG**  
**Salt Lake City, June 26th 2018**

This report includes the description of my activities presented to the BoG in the period 2017 October - 2018 June:

1. **DLP plus other distinguished educational activities**
2. **Collaboration with MERLOT and MoU between EdSoc and MERLOT.**
3. **Collaboration with EAB.**

As reminder, to understand better the actions included in this report, you have available in Annex the strategic implementations I designed deploying our current strategic Objective 3:

**ACTIVITIES REPORTED:**

1. **DLP plus other distinguished educational activities**

The activities described below are under the following VPEA strategies:

- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**
- **The EdSoc shall be a relevant source for information and resources for the engineering educator and support the educational needs of faculty members and academic departments.**

**Events held with support of the EdSoc DLP:**

1. We have supported under DLP three events:
  - TALE Conference: DLP has supported the participation of two keynotes to IEEE the International Conference on Teaching, Assessment, and Learning for Engineering (TALE), held each year in the Asia-Pacific region (IEEE Region 10). TALE 2017 was organized by the IEEE Education Society Hong Kong Chapter in collaboration with Education University of Hong Kong. Leon Chi-Un Lei TPC Co-chair, TALE 2017, Vice-chairman, Edu Soc. HK Chapter, and Dr. Gary Wong, General Co-chair, TALE 2017; Chairman, Edu Soc. HK Chapter).

Link for the Conference: <http://www.tale-conference.org/tale2017/>

Audience: 120

Date: Tuesday, December 12, 2017 to Thursday, December 14, 2017

- NOOR 2017: DLP has supported the participation of one keynote to the Education Tunisia chapter. The IEEE Education Society Tunisia chapter has organized, under the Patronage of the Minister of Higher Education and Scientific Research, with other non-profit organizations in Tunisia, a forum about the new approaches in Education and Training, entitled "NOOR 2017".

The event included plenary talks and panel discussions and poster sessions.

The profile of the participants is National education program stakeholders, teachers, researchers, students, and representatives from organizations, universities, Ministry, and companies.

Audience: 100

Date: Friday, November 17, 2017 to Sunday, November 19, 2017

Related link: <http://tmsscontact.wixsite.com/nourtunisie2017>

- Education Conference in the 41st International ICT Convention MIPRO 2018, organized by the Education Chapter e25, in Croatia in May 2018. It was held in front of an audience of 18 engineering education professionals and it focused on the importance of storytelling in engineering education. It was thought-provoking, introducing a discussion after the lecture, as well as engaging comments and references to it by several lecturers who followed next in the event.

#### Webinars Miniseries:

One of the objectives of IEEE Education Society is to provide a portfolio of educational resources, in webinar format, expanding the Distinguished Lecture Program we have, to enhance the EdSoc members' professional development.

Having a strong interest in workshops and tutorials provided by the IEEE Education Society, we begun to organize this new webinar series to promote and give more visibility and diffusion to the workshops selected and organized under the umbrella of our flagship conferences Frontiers in Education (FIE), Global Engineering Education Conference (EDUCON), Teaching, Assessment, and Learning in Engineering (TALE) and Latin American Engineering Education (EDUNINE).

This webinar series are under the "Distinguished Lecturers and Educational Activities Program Committee". All of them are distinguished educational resources and managed from the same Committee with the purpose of providing a portfolio of educational resources, in webinars and workshops format, necessary to enhance the EdSoc members professional development.

This program is fully aligned with the project "Early Career Faculty Development" and its evolution and progress would be followed under the guidelines provided by the Committee in charge of this project, the Faculty Resources Committee, from the University Resources Committee (in EAB).

Webinars performed (<http://ieee-edusociety.org/education/webinars>)

- Preparing to Publish in the IEEE Transactions on Education, by Jeff Froyd, in March 2018
- An international Gateway for Finding OER, by Sorel Reisman (MERLOT Managing Director) in April 2018.

Next webinars planned:

- “How to design and implement an Internet of Things node in 90 minutes (or less)” Patrick Kane
- Development of Computing Competencies and the CC2020 Project, John Impagliazzo
- Inclusion and Integration of Students with Robotics, Aruquia Peixoto and Pedro Plaza
- The shoulders of giants – or how to provide climbing aids for students! By Alex.Tarchini@mathworks.it

## **2. Collaboration with MERLOT and MoU between EdSoc and MERLOT and other sister societies.**

The activities described below are under the following strategies:

- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**
- **The EdSoc will continue interfacing with and writing sister society agreements**

The MoU has been signed by both parties. The main objectives of this MoU:

- Enable MERLOT and the IEEE Education Society to effectively and efficiently serve their constituents by providing joint community activities and promoting the sharing of tools and resources.
- Enable the higher education community to take advantage of high quality open online resources and services through the collaborative initiatives of MERLOT and the IEEE Education Society.
- Increase visibility of MERLOT and the IEEE Education Society with each other's constituencies.
- Provide opportunities for collaboration among our constituencies.
- Provide increased value to our constituencies

Actions developed in the last months:

### **Communities in MERLOT under the endorsement of the Education Society**

1. Co-chairing a Panel about Open Educational Resources on the 42nd Annual IEEE International Computers, Software, and Applications Conference (COMPSAC 2017), held in Tokyo, July 2018. One of the presentations will take

place about the MERLOT communities of Computer Science, and Information Systems (IS) endorsed by the IEEE EdSoc and Computer Societies.

2. Promotion of these communities through the MOOC FOE01.x Foundations to Open Education and OERs repositories <https://courses.edx.org/courses/course-v1:IEEEEx+FOE01.x+3T2017/course/> published in edX under the IEEEEx channel, led by Manuel Castro, and with more than 1,000 students enrolled. I was in charge of the coordination of the module 2 about Open repositories. I presented (video) a subunit entitled "Open engineering communities. The case of IT and CS communities in MERLOT" - The main mandatory practice of this module, was based on search materials and add materials to the MERLOT IT or CS disciplines.

### **3. Collaboration with EAB.**

The activities described below are under the following strategies:

- **The EdSoc will strength its ties with EAB and aligned activities.**

#### Stronger presence in EAB

Russ Meier, as President elect in charge of the relation with EAB, is playing an important role increasing the presence and leadership of EdSoc in EAB, chairing the new "Faculty Resources Committee" with presence of members of our BoG.

#### Dissemination of a MOOC in IEEEEx about OER.

I was pushing the dissemination efforts of this MOOC led by Manuel Castro with support of EAB, presenting several issues around it in Conferences sponsored by IEEE:

- In EDUCON 2018, held in Tenerife, Spain, on 17-20 April, 2018, <http://educon-conference.org/educon2018/>  
Title: Work in Progress: Contributing to becoming aware of the value of Open Education
- In COMPSAC 2018, July 2018 Title: Who are interested in Open Education? An analysis of the participants in the first MOOC of the IEEE Education Society  
Author(s): Cabedo, Rosa, Tovar, Edmundo (1); Martin, Sergio (2); Llamas, Martin (3); Caeiro, Manuel (3); Martinez Bonastre, Oscar (4); Strachan, Rebeca (5); Castro, Manuel (2), Reisman, Sorel
- LWMOOCs 2018, Madrid September 2018  
Title: The MOOC offer in Open Education: a revision of the first IEEE Education Society' MOOC

## **ANNEX:**

### **Objective 3. To provide new professional development opportunities for members (Taken from our current Strategic Plan)**

#### **Strategic goals for the Educational Activities Area in the line of the Objective 3 of IEEE Education Society:**

- **The EdSoc shall have a global comprehension of its educational activities focused on the diversity of our chapters and different needs.**
  - *Analysis of educational activities reported by the chapters meetings from data provided by MGA.*
  - *Survey to chapters chairs/officers*
- **The EdSoc shall help to develop web-based educational resources meeting the needs of a membership that is geographically initially in English, but then expanding to other languages.**
  - *Promote the production and publication of resources in Merlot*
  - *Select and publish resources distinguished*
- **The EdSoc shall be a relevant source for information and resources for the engineering educator and support the educational needs of faculty members and academic departments.**
  - *To search and recommend OER in EdSoc FOI.*
  - *A hub of resources integrated in different repositories*
  - *Program of webinars*
  - *Pilot of MOOC*
- **The EdSoc shall engage students who may be interested in academic careers.**
  - *Survey with student branches are student chapters, affiliated with local chapters*
- **The EdSoc will strength its ties with EAB and aligned activities.**
  - *Chairing educational communities in Collabratec*
  - *Supporting Chapters HKN in education*
- **The EdSoc Society will proactively approach other Organizational units**
  - *To offer tutorials on educational techniques and technologies that would be held at their flagship or other major conferences with new educators in attendance.*
  - *To explore collaborations with CS*
  - *To explore contacts with EA Committees of other Regions*
- **The EdSoc will continue interfacing with and writing sister society agreements**
  - *To identify and propose educational contents in MoU with other Societies*