

TOPICS for Upcoming Journal

Theme of journal: What potential do MOOCs have to disrupt engineering education ?

Authors can submit papers related to the topics listed below:

1. Could the MOOC trend disrupt the traditional teaching-research nexus of universities and threaten good quality research-based university education?
2. How will disruptive technologies level out the playing field and make higher education accessible to more students?
3. Can MOOCs produce more “bang for the buck”: through helping to reduce dropouts and the time spent in higher education?
4. Are universities ready to commit themselves to digital democratization?

Topics that can be discussed in papers
How do MOOCs differ from past instantiations of on-line courses?
How will MOOCs change the roles of faculty and in what ways?
What laboratory/hands-on activities will need to be provided in conjunction with engineering-related MOOCs? How can this be accomplished?
In what ways can students garner credit for their efforts? How might MOOCs impact accreditation?
How can the utilization of “big data” (e.g., click-stream data) be used to identify and propagate best practices? What kinds of data could be useful?
What can be done with MOOCs to provide more effective adaptive/personalized learning?
Are there viable business models and how might they impact institutions of higher education? Who should own the IP and how should it be handled?
How is student learning best evaluated in a MOOC and correlated with future ability to retain and synthesize/integrate knowledge/skills?
What resources (materials, videos, exercises, equipment, assessments, mentoring, etc.) are available/needed to improve student learning in MOOCs?
What can we observe and what learner behaviors are important to observe? How should we instrument the learning environment?
What new collaborations/partnerships are developing (or might develop) due to MOOCs?
How can completion rates be improved? Does this need to be addressed?
Could MOOCs make higher education more accessible for people in the workforce?