



INVITED SESSION SUMMARY

Title of Session:

Smart Pedagogy: Innovative Ways to Increase the Effectiveness of Teaching Strategies and Maximize Student Learning Outcomes

Name, Title and Affiliation of Chair:

Dr. Jeffrey P. Bakken, Bradley University

Details of Session (including aim and scope):

This session will focus on Smart Pedagogy and different ways it can be incorporated into improving the teaching strategies and learning of students. All papers that address various concepts, methods, approaches, and best practices of Smart Pedagogy and innovative teaching strategies to increase the learning of students and maximize the effectiveness of teaching and learning will be considered.

Examples of topics in this session include but are not limited to

- 1) Learning-by-Doing Learning or Experiential Learning or Active Learning (in classrooms or in remote/virtual labs with guided experiments on technology/scientific equipment);
- 2) Smart Learning Analytics and Predictive Analytics-based Learning (i.e. data-driven analysis of learning activities and academic performance outcomes);
- 3) Crowdsourcing-based Learning (harnessing the local knowledge of many students/learners);
- 4) Flipped Classrooms (blending learning inside and outside the classroom);
- 5) Collaborative Learning (with self-organized virtual learning communities and active use of advanced technology and software/hardware systems).
- 6) Adaptive Teaching (adapting computer-based teaching to the learner's level of knowledge);
- 7) Game-based Learning (exploiting the power of digital games for learning) and Gamification of Learning (with various gamification techniques);
- 8) Badging-based Learning (an open framework for gaining recognition of skills and achievements);
- 9) Context-based Learning (Smart Classroom environment context shapes learning and is shaped by modern learning approaches);
- 10) Productive Failure-based Learning;
- 11) best practices and case studies on smart pedagogy;
- 12) university-wide software/hardware systems for innovative teaching approaches, student learning and Smart Pedagogy;
- 13) faculty professional development and instructor's skills for Smart Pedagogy and Smart Education;
- 14) Smart Pedagogy and blended, distance, online and open education;
- 15) national and international initiatives, projects and partnerships on Smart Pedagogy, Smart Education and Smart e-Learning.

The aim of this session is for academic scholars, researchers, practitioners and administrators around the world to share with each other various approaches and ways they have designed,

developed, tested, implemented and/or used Smart Pedagogy to improve and maximize effectiveness of learning for all students.

Our vision is that this session will serve as an advanced educational incubator and a useful source of valuable innovative ideas and approaches, collection of knowledge from various research, design and development projects, useful information about current best practices and case studies in Smart Pedagogy. We hope this session will provide a baseline of further progress and inspiration for researchers, scholars, practitioners, and administrators in educational institutions to be actively involved and/or strongly support research projects and advanced developments in Smart Pedagogy, innovative teaching strategies and modern learning styles.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Website URL of Call for Papers (if any):

Email & Contact Details:

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