

#	Title	Authors with affiliation and country
1570621835	Using Text Data Mining to Enhance the Literature Search Process for Novice Researchers	Andres Fortino (NYU & Autonomous Professional Development, USA); Qitong Zhong, Luke Yeh and Sijia Fang (NYU School of Profesional Studies, USA)
1570621836	Selection and Assignment of STEM Adjunct Faculty Using Text Data Mining	Andres Fortino (NYU & Autonomous Professional Development, USA); Qitong Zhong, Luke Yeh and Sijia Fang (NYU School of Profesional Studies, USA)
1570626180	A three-year retrospective on offering an embedded systems course with a focus on cybersecurity	Ravi Rao (Fairleigh Dickinson University)
1570626557	MARREG-MARriage REGistration - for a better cause	Amit Mazumder (Ministry of Electronics and Information Technology, Government of India, India)
1570626730	Integrating a Smartphone-Based Vibration Experiment into an Engineering Course	Musa Jouaneh (University of Rhode Island, USA)
1570626748	Math & Crafts, Educational Activities: Ancient Math Methods, Future Directions	Ernesto Vega Janica (IEEE Standards Association, USA)
1570626763	A Hands-on Project to Improve Student Learning Experience in Electronics: Building Ship Storage Room Security System	Wei Yu (Massachusetts Maritime Academy, USA)
1570627018	Course-Specific Model for Prediction of At-Risk Students Based on Case-Based Reasoning	Haris Supic and Dzenana Donko (University of Sarajevo, Bosnia and Herzegovina)
1570627308	A Comparative Analysis of Secondary School STEM Research Programs in a Chinese School and an American School	Xiang Gong and Erik Mohlhenrich (Princeton International School of Mathematics and Science, USA)
1570627309	Device to Remotely Track and Locate the Position of a Child for Safety	Shamendra Egodawela, Ruwan Ranaweera and Janaka Wijayakulasooriya (University of Peradeniya, Sri Lanka)
1570627363	Supporting Engineering Practices in Informal Learning Environments with a Tablet-Based Engineering Design Environment	Nicole M Zapparrata (Center for Advanced Studies in Education, USA)
1570627768	The Preternship - An Academic-Industry Partnership Model for Early Experiential Learning Experiences in Computer Science Curricula	Matthew Morrison, John Dimpel and Emory Smith (University of Notre Dame, USA)
1570627853	Design and Development of a SCADA Course for Engineering Undergraduates	Mohammad U. Mahfuz (University of Wisconsin-Green Bay, USA)

1570628069	A social engineering awareness and training workshop for STEM students and practitioners	Aunshul Rege, Trinh Nguyen and Rachel Bleiman (Temple University, USA)
1570628105	Mathematics Gamification in Mobile App Software for Personalized Learning at Scale	Chee Wei Tan and Pei Duo YU (City University of Hong Kong, Hong Kong); Lin Ling (Princeton University & City University of Hong Kong, Hong Kong); Ching Nam Hang and Man Fai Wong (City University of Hong Kong, Hong Kong)
1570628229	Experiences Toward An Interactive Cloud-Based Learning System for STEM Education	Bharath Kumar Samanthula, Mirza Mehran, Michelle M. Zhu, Nicole Panorkou and Pankaj Lal (Montclair State University, USA)
1570628279	Behavioral Simulation Educational Framework for 2-Terminal MTJ-based Analog to Digital Converter	Gustavo Camero, Soheil Salehi and Ronald DeMara (University of Central Florida, USA)
1570628383	Interdisciplinary Collaboration Approaches on Undergraduate Virtual Reality Technology Projects	Eric Nersesian, Margarita Vinnikov, Jessica Ross-Nersesian and Michael J Lee (New Jersey Institute of Technology, USA)
1570628386	Suspended Load Swing Stabilization	Thomas R Aldhizer, Austin Morock and Kristina Hughes (The United States Military Academy, USA); Mary Lanzerotti (USMA, USA); Suzanne Christoff, Susan Lintelmann and Jacob Capps (The United States Military Academy, USA)
1570628390	Pre-college Computer Science Initiative for Augmented and Virtual Reality Development	Eric Nersesian and Adam Spryszynski (New Jersey Institute of Technology, USA); Tracy Espiritu (Passaic County Technical Institute, USA); Michael J Lee (New Jersey Institute of Technology, USA)
1570628400	Out-of-school Time STEM: Teach Programming Using Python for High School Girls	Chaoyi Wang, Srikanth Vemula and Michael Frye (University of the Incarnate Word, USA)
1570628402	Encouraging Higher Education STEM Careers Through Robotics Competitions	Rodrigo A Canek (Universidad Galileo, Guatemala); Pablo A Torres (Student Universidad Galileo, Guatemala); Oscar Rodas (Universidad Galileo & Tesla Lab, Guatemala)
1570628404	Development of low-cost IoT devices to encourage STEM skills in Guatemalan environments	Yeisson R Chicas (Universidad Galileo, Guatemala); Angel Isidro and Oscar Rodas (Universidad Galileo & Tesla Lab, Guatemala)
1570628409	Designing the curriculum for a minor in Cyber Criminology	Rajesh Prasad (Saint Anselm College, Manchester, NH, USA); Liana Pennington (Saint Anselm College, USA)

1570628442	Influencing factors to choose STEM areas: The case of Mexican strongly STEM-oriented high school students	Angeles Dominguez (Tecnologico de Monterrey, Mexico & Universidad Andres Bello, Chile); Santa Tejada and Blanca Ruiz (Tecnologico de Monterrey, Mexico)
1570628443	Virtual Collaboration Training for Freshman Undergraduate STEM Students	Eric Nersesian, Michael J Lee, Adam Spryszynski and Jessica Ross-Nersesian (New Jersey Institute of Technology, USA)
1570628449	Lyapunov Based Trajectory Tracking Dynamic Control for a Qbot-2	Sabiha Wadoo (New York Institute of Technology, USA)
1570628465	Evaluation of Smartphone-based Sound Level Meters	Trinity Cheng (River Hill High School, USA)
1570630036	STEM Outreach: A Literature Review and Definition	Ralph Tillinghast (US Army & CDC Armaments Center, Picatinny Arsenal, NJ, USA); Daniel C Appel (US Air Force Research Laboratory, Kirtland AFB, NM & Aegis Technologies Group Inc., USA); Carla Winsor (University of Wisconsin-Madison, USA); Mo Mansouri (Stevens Institute of Technology, USA)
1570631198	Student Performance Prediction from E-mail Assessments Using Tiny Neural Networks	Nikhil Yadav (St. John's University, USA); Kajal Srivastava (Jaipuria Institute of Management, India)
1570631202	Middle School Students Learn Binary Counting Using Virtual Reality	Eric Nersesian, Margarita Vinnikov, Jessica Ross-Nersesian, Adam Spryszynski and Michael J Lee (New Jersey Institute of Technology, USA)
1570631219	Evaluation of a Snake Jaw Robot to Teach Integrated Biology, Mathematics, and Engineering	Lauren Garofalo, Samantha Sandler and Deeksha Seth (Villanova University, USA)
1570631220	Interdisciplinary Project Based Learning Approach for Machine Learning and Internet of Things	Muhammad Safeer Khan and Mohamed Ibrahim (Arkansas Tech University, USA); Nansong Wu (Sonoma State University, USA); Rajvardhan Patil (Arkansas Tech University, USA)
1570631223	Electrical Engineering Core Course Laboratory Creation for Non-STEM Majors	Christopher Martino, Dan Opila, Brent West, Louiza Sellami, John Stevens and Deborah Mechtel (United States Naval Academy, USA)
1570631228	Instrumentation & Investigation of Phage-Antibiotic Synergy on <i>K. pneumoniae</i> , <i>H. alvei</i> , and Transductant <i>H. alvei</i>	Ibnat Meah (Dallatown Area High School, USA); David Singleton (York College of Pennsylvania, USA)
1570631245	A Hands-on Middle-School Robotics Software Program at MIT	Sabina Chen and Andrew Fishberg (Massachusetts Institute of Technology, USA); Sertac Karaman (MIT, USA)

1570631254 Active and Collaborative Learning Based Dynamic
Instructional Approach in Teaching Introductory Computer
Science Course with Python Programming

1570632080 Student-Inspired Project-Based Learning in an Embedded
Systems Course

1570635954 STEM Outreach: A Stakeholder Analysis

Mahmudur Rahman, Monir Sharker and Roshan Paudel
(Morgan State University, USA)

Girma Tewolde (Kettering University, USA)

Ralph Tillinghast (US Army & CCDC Armaments Center,
Picatinny Arsenal, NJ, USA); Daniel C Appel (US Air Force
Research Laboratory, Kirtland AFB, NM & Aegis Technologies
Group Inc., USA); Carla Winsor (University of Wisconsin-
Madison, USA); Mo Mansouri (Stevens Institute of
Technology, USA)