CHUNK Learning: Curated Heuristic Using a Network of Knowledge

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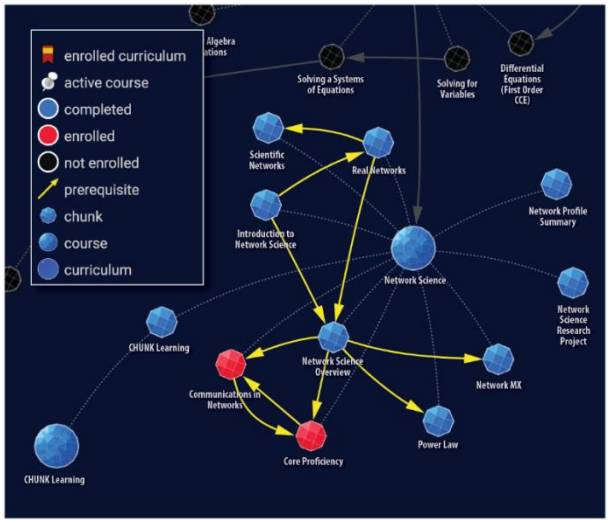
NAVAL POSTGRADUATE SCHOOL

Curated Heuristic Using a Network of Knowledge (CHUNK) Learning Technical Webinar

Traditional education relies on teachers driving curriculum delivery while placing all students through the same topics, at the same time and speed, generally teaching to the average student. Our Curated Heuristic Using a Network of Knowledge for Continuum of Learning (CHUNK Learning) research project is a real-time and adaptive teaching-learning method for enhanced and personalized education. It provides a curated way of moving through a network of knowledge composed of reusable learning objects joined together by common attributes (i.e., tagged with competency or skill levels), rather than following the standard linear or tree-like system of lectures or chapters. CHUNK Learning thus enables the learner to heuristically discover or learn based on personal background and interests, which we believe will not only enhance the learner's talents, but will make them a more valuable resource.



Date: 31 July 2019

Time: 1400 (2:00 p.m. EDT)

Speakers: Professor Ralucca Gera (Primary Investigator)
LTC Michelle Isenhour (Project Manager)

Subject: Along with a virtual tour of the CHUNK Learning platform, this webinar will address:

- How a network science approach serves as the foundation for real-time, personalized, adaptive learning;
- How our curated collection of educational content is presented as a network of knowledge;
- How the learning management system contains a recommender system supporting both individualized and personalized instruction, matching learning needs (as stored in student profiles) with educational content and presenting each learner with a personalized network of knowledge; and
- The requirement to continually update the student profile and educational content in an adaptive learning environment.

This session will also demonstrate the use of CHUNK Learning from an educator's perspective, identifying how teachers can use reusable content to ensure learners are meeting the same learning goals while respecting students' different learning needs.

Audience: This Webinar would be informative for faculty in any discipline, learning professionals, training specialists, and IT professionals interested in life-long education and training; executive decision makers looking for ways to increase monitor skills and competencies of subordinates; and those interested in a novel educational application of network science.

Where: Virtual, using GoToWebinar. Reserve your seat by RSVP'ing at: https://attendee.gotowebinar.com/register/1279514175658014723. More information, including how to log into the webinar session, will follow in an invite email. If you have questions, please contact Liz Bradley at elizabeth.bradley.ctr@adlnet.gov.

Speaker Bios: Dr. Ralucca Gera is the Associate Provost for Graduate Education and Professor of Mathematics at the Naval Postgraduate School. Her research interests are in graph theory and network science, with applications to the study of the Internet, Cyber networks, Education and Natural Language Processing, sponsored by multiple DoD organizations.

LTC Michelle Isenhour is a Military Assistant Professor in the Operations Research Department at the Naval Postgraduate School. She teaches numerous courses in statistics and data analysis. Her research interests are in the simulation of pedestrian movement, multi-scale crowd control and management, evacuation dynamics, and innovative methods in education.