MERLOT



MERLOT – SKILLSCOMMONS Peer Reviewer Report						
Name of Learning Material:	Hybrid PLC Mechatronics - Chapter 21 Artificial Intelligence	e				
KILLSCOMMONS URL:	https://www.skillscommons. org/handle/taaccct/18783					
earning Material URL:	https://hybridplc.org/wp-content/uploads/labs27_S. pdf	https://hybridplc.org/wp- content/uploads/labs28 S.pdf	https://bybridplc.org/wp-content/uploads/lab30	https://bybridplc.org/wp-content/uploads/chap21	https://www.youtube.com/watch?v=-gxw-Q-dy5w	,
eviewer's Name:						
ate Review Completed:						
eview Time Required:						
ejected? Y/N						
escription						
L. Overview: Describe overview, features and descriptions, ises, and applications. Include cost, if any for apps	After a look at statistical forecasting methods, an introduction to relational A1 is given. Relational A1 is at the core of artificial intelligence programming. Introduced are adviscussion of various types of machine intelligence. Questions of relinis and scope of use of A1 are discussed as well. A problem using a search agent introduces the decision tree search algorithm. The problem introduced to searching a maze is useful throughout the chapter and becomes one of the few programs easily adapted to the PLC for implementation. More sophisticated search methods are included. Probability is introduced as amenus to chore of included. Probability is introduced as an easily to the development of Bayes' Theorem and gives examples of its use. More sophisticated search methods are readily implemented in the programming of the standard PLC instruction set. Knowledge-based expert systems must also consider fuzzy logic and neural network systems. Fuzzy logic dals with fuzzy linguistic terms while neural networks can learn using appervised and unsupervised learning. Once considered as a first solution in most A1 problems. Accompanying Video: PLC Series Chapter 21 - Artificial Intelligence (44.08) Hybrid Lab Text: Ch. 28 – Festo Ch. 30 – Conveyors (see Additional Dubic Access to Materials below)					
. Type of material: Animation, assessment tool, assignment,						
ase study, collection, development tool, drill and practice, e- portfolio, learning object repository, online course, open						
ournal article, open textbook, presentation, reference	Online Course Module					
naterial, simulation/game, social networking tool, quiz/test, utorial, workshop and training material.						
utorial, workshop and training material. . Technical requirements: Browser, software or						
olug-in, Java, HTML, Flash, etc. You can test how it						
appears on Internet Explorer at http://ipinfo. nfo/netrenderer/ Note type of device if it is an app (iPad, Android, phone, etc.)	-					
I. Identify major learning goals/ curriculum objectives: Purpose of site, goal for learner/user.						
 Recommended uses: In-class, homework, individual, team, ecture, etc. Target population: Level, course or subject matter, other 						
 larget population: Level, course or subject matter, other user groups Prerequisite knowledge or skills needed: Course or subject 						
natter, computer skills, other miscellaneous skills						
 Application to industry recognized certification: Name of redential or certification. 						
Evaluation and Observations: After reviewing the zarning material, please indicate your agreement with the ollowing statements by utilizing the scoring scale: =Strongly Agree; 3=Agree; 2=Disagree; 1=Strongly Disagree; n0 ePN/A.						
#1 Quality of Content – The Learning Material	Strongly Agree: 4	Agree: 3	Disagree: 2	Strongly Disagree: 1	N/A: 0	TOTAL
ra quanty of content – the Learning Material	Strongry Agree: 4	Agree: 3	Disagree: 2	Strongry Disagree: 1	N/A: U	IUIAL
is clear and concise						
.provides a complete demonstration of the						
oncept						
demonstrates a core concept grounded in the liscipline						
is current and relevant						

4

...is current and relevant ...is supported by appropriate research

is self-contained (can be used without requiring an assignment or context)			3
provides accurate information			4
is flexible (can be used in several situations)			3
includes an adequate amount of material			4
has strong workplace relevance			3
integrates the concept well			4
Overall, the quality of the content is very high			3
Total: #1 Quality of Content			43

#2 Potential Effectiveness as a Teaching						
Tool/This Learning Material	Strongly Agree: 4	Agree: 3	Disagree:2	Strongly Disagree: 1	N/A: 0	TOTAL
identifies learning objectives						4
identifies prerequisite knowledge						4
reinforces concepts progressively						4
builds on prior concepts						3
demonstrates relationships between concepts						4
is easy to integrate into curriculum assignments						3
is very efficient (could learn a lot in a short time)						4
can be used to measure student learning outcomes						3
Overall, learning material is a very effective teaching tool						4
Total: #2 Effectiveness as Teaching Tool						33

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			·
			2!
	Image: select	Image: second	Image: selection of the

Combined TOTAL scores (add together the totals as indicated above for #1, #2, #3	105
Optional Information:	
Other comments to be included in the review: (If an app,	
respects privacy of user, meets PG rating standards, how frequently app is updated)	
Comments to author only: (Any needed improvements or recommendations should be addressed here.)	

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