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Framework to Enhance Teaching and Learning in System Analysis and Unified Modelling Language

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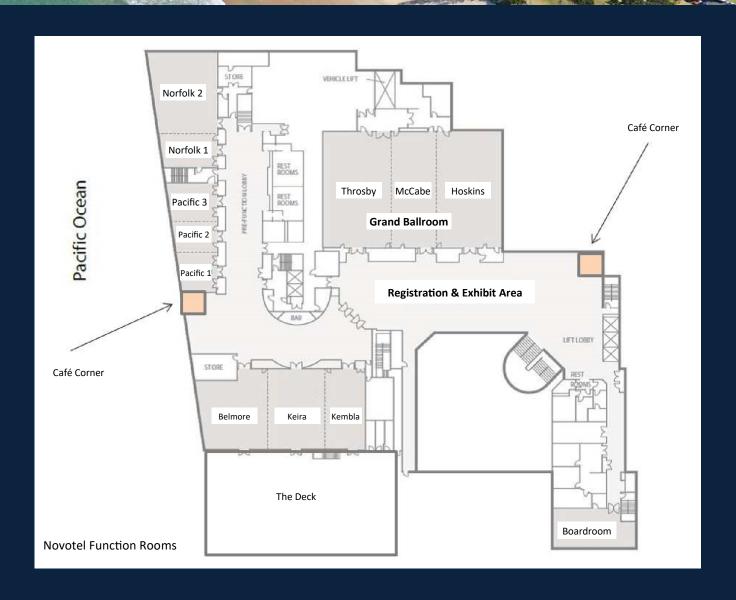
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Download date: 09 Oct 2020



Conference Program



Tuesday, 4 Dec 2018

Day #1: University of Wollongong Campus						
11:30—19:30	Registration	UOW Campus - Hope Theatre				
12:00—15:00	Pre-Conference Workshop 1: Patents & IP Law	UOW Campus - Building 17, Room 106				
12:00—15:00	Pre-Conference Workshop 2: Analytics & Student Support	UOW Campus - Building 3, Room 122				
12:00—15:00	Pre-Conference Workshop 3: Remote Labs	UOW Campus - Building 4, Room 122				
12:00—15:00	Pre-Conference Workshop 4 - Chatbot Tutors	UOW Campus - Building 4, Room 123				
12:00—15:00	Pre-Conference Workshop 5: XR & Immersive Learning	UOW Campus - Building 6, Room 210				
16:00—16:45	UOW Campus Tour	Meet at UOW Campus - Building 4 Atrium				
17:00—19:10	Conference Opening with Keynotes by Susan Zhang & Dr Bror Saxberg	UOW Campus - Hope Theatre				
19:10—21:30	Welcome Reception	UOW Campus - UniBar				

Wednesday, 5 Dec 2018

Day #2: Novotel Wollongong Northbeach					
08:30—17:00	Registration	Registration & Exhibit Area			
09:00—10:10	Opening Session with Keynote by Prof Gregor Kennedy	Grand Ballroom			
10:10—16:30	VR/AR Demo Showcase	Norfolk 1 & 2			
10:10—10:40	Poster Session	Registration & Exhibit Area			
10:30—10:55	Morning Tea	Registration & Exhibit Area			

Throsby (Bal	<u>llroom 1)</u> :	Engineering Educat	ion - Full Papers (1	Omin presentations + 3min questions)				
Time	Sub. ID	Contril	bution Title Present	ter Family Name / First Name / Presenter Affiliation	Country			
11:00—11:13	244	Enhancing Teaching M	Enhancing Teaching Methods on Embedded Systems with Project-Based Learning					
		Sanfilippo	Filippo	Norwegian University of Science and Technology	Norway			
11:15—11:28	306	Contribution of Learnin	ng, Teaching and Assessi	ment Activities to the Development of 21st Century STEM Competencies				
		Hettling	Laura	Brandenburg University of Technology Cottbus-Senftenberg	Germany			
11:30—11:43	284	The Link between Spat	ial Skills and Engineering	g Problem-Solving				
		Sorby	Sheryl	University of Cincinnati	USA			
11:45—11:58	227	Evaluating Teaching Eff	fectiveness Using Quant	itative Student Feedback				
		Srinivasan	Dipti	National University of Singapore	Singapore			
12:00—12:13	395	Using Problem-Based L	earning to Enable Appli	cation of Foundation Engineering Knowledge in a Real-World Problem				
		Larson	Jean S.	Arizona State University	USA			

McCabe (Ba	McCabe (Ballroom 2): Computing & IT Education - Full Papers (10min presentations + 3min questions)						
Time	Sub. ID	Co	ontribution Title Pres	senter Family Name / First Name / Presenter Affiliation	Country		
11:00—11:13	134	A Quantitative Ap	A Quantitative Approach to Design Special Purpose Systems to Measure Hacking Skills				
		Falah	Ahmed	Deakin University	Australia		
11:15—11:28	138	Educating and Ra	ising Awareness on Cyber	Security Social Engineering: A Literature Review			
		Aldawood	Hussain Ali	University of Newcastle	Australia		
11:30—11:43	359	Approach for Eva	luating IT Employees' Pro	gramming Ability Using the Programed Visual Contents Comparison Method			
		Kiyomitsu	Hidenari	Kobe University	Japan		
11:45—11:58	366	Teaching Hardwa	re Reverse Engineering: E	ducational Guidelines and Practical Insights			
		Becker	Steffen	Ruhr-Universität Bochum	Germany		
12:00—12:13	467	An Essential Appl	ied Statistical Analysis Cou	urse using RStudio with Project-Based Learning for Data Science			
		Gunawan	Aldv	Singapore Management University	Singapore		

Time	Sub. ID	Con	tribution Title Prese	enter Family Name / First Name / Presenter Affiliation	Country
11:00—11:13	125	Application and Eva	aluation of a Grouped Fli	pped Classroom Method	
		Umezawa	Katsuyuki	Shonan Institute of Technology	Japan
1:15—11:28	184	Peer Assisted Study university subjects	Sessions (PASS) Online:	Investigating the impact of an online format across different first year	
		Woolrych	Tracey	University of Wollongong	Australia
1:30—11:43	275	Students Discussing	g Ideas in Online Spaces:	Research-Infused Recommendations for Making Computer-Mediated	
		Discussions Produc	tive for Learning		
		Zengilowski	Allison Nicole	University of Texas at Austin	USA
1:45—11:58	371	Evaluation of Devel	oping Educational Chath	oots Based on The Seven Principles for Good Teaching	
		Luo	Jing	The University of Hong Kong	Hong Kong
2:00—12:13	425	Transferring Human	n Tutor's Style to Pedago	ogical Agent: A Possible Way by Leveraging Variety of Artificial Intelligence	
		Achievements			
		Feng	Xiang	East China Normal University	China

	Sub. ID	contribution ritic	Presenter Family Name / First Name / Presenter Affiliation	Countr
:00—11:13	270	Using Maths Model Method in Solvin	g Pre Algebraic Problems among Year Five Students	
		Binti Ismail Zaleha	Universiti Teknologi Malaysia	Malaysia
:15—11:28	105	Arduino as an Educational Tool to Int	roduce Robotics	•
		Castro Manuel	UNED	Spain
:30—11:43	157		Subject in Primary Schools: Methodological Approach Based on Alternative Coop-	- 1 -
		erative and Individual Learning Cycles		
		Vlahu-Gjorgievska Elena	University of Wollongong	Australia
1:45—11:58	318	Computational Thinking Education fo	r Children: Algorithmic Thinking and Debugging	
		Wong Gary K. W.	The University of Hong Kong	Hong Kong
2:00—12:13	337	Framework of Integrating Algebraic T	hinking in Problem-Based Learning via Online Environment for School Students	
		Binti Ismail Zaleha	Universiti Teknologi Malaysia	Malaysia
acific 1&2 :	XR & Imm	ersive Learning Environments -	Full Papers (10min presentations + 3min questions)	
Time	Sub. ID	Contribution Title F	Presenter Family Name / First Name / Presenter Affiliation	Country
:45—11:58	391	Design and Implementation of an Aug	mented Reality Application with an English Learning Lesson	·
		Liu Enrui	Beijing Normal University	China
::00—12:13	444		ionary with Multiple Design: A Perspective from the Integration of Eye-Tracking	
		Technique and Stimulated Recall		
		Zhai Xuesong {Mi	chael} Beijing Normal University	China
acific 3 : Er	ngineering I	ducation - Full Papers <i>(10min p</i>	oresentations + 3min questions)	
Time	Sub. ID	Contribution Title F	Presenter Family Name / First Name / Presenter Affiliation	Country
:00—11:13	333	Are We Fit to Graduate Creative Profe	ssionals?	
		Belski louri	RMIT	Australia
45 44 30	474			Australia
1:15—11:28	474	Teaching Reform of Engineering Graph Guangzhou, China	nics Education in Terms of Engineering Education Professional Certification in	
		Liu Zhen	South China University of Technology	China
L:30—11:43	486		, .,	
1.30—11.43	400		similation of ITC2 Competencies for Business Engineering Programs	_
		Luna Ana	Universidad del Pacífico	Peru
L:45—11:58	252	A Java Program for Automatic Team A	llocation in Project-Based Coursework	
		Vial Peter James	University of Wollongong	Australia
2:00—12:13	266	Higher Education Practices Accounting	for Gender Differences in Technological Development as Part of SDGs	
		Achievement		
		Hirata Sadayo	Shibaura Institute of Technology	Japan
<u>eira</u> : Indus	stry Sessior			
Time	Sub. ID	Contribution Title F	Presenter Family Name / First Name / Presenter Affiliation	Country
:00—11:40	500	Microsoft HoloLens and Al		
		Townes Megan	Microsoft	Australia
1:40—12:00	505	Enriching Education: Free Classroom C	Computing Education Resources Increase STEM Diversity	
		Haas Damian	Oracle Academy	Australia
	10 .			
<u>elmore</u> : Pa		.		
Time	Sub. ID		Presenter Family Name / First Name / Presenter Affiliation	Country
:00—12:20	500	Panel Session - Providing Automated a	and Individually Tailored Assessment Feedback	
		Cunningham-Nelson Samuel	Queensland University of Technology	Australia
		Mohammadi-Aragh	Mohammadi-Aragh	USA
		Mohammadi-Aragh Jean	Mohammadi-Aragh	
		Goncher Andrea	Charles Sturt University	Australia
		Boles Wageeh	Queensland University of Technology	Australia
gistrati <u>on</u>	and Exhibit	Area and Norfolk Rooms & Wi	ndjammers Restaurant	

Windjammers Restaurant

12:55-13:55

Lunch

Mind the Gap: Insights into Student Perceptions During Peer Assessment of Writing Tan	Fig. Fig. Mind the Gap: Insights into Subient Perceptions During Peer Assessment of Writing Tan	Time	Sub. ID	Contribution Title Presenter Family Name / First Nam	e / Presenter Affiliation	Country
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15—14.28 432 Make Your Own Hornework: An Alternative Approach to Assignments in a Flipped Calculus Class 30—14.43 461 Objective Apassment of Students' Generic Stills Valinus Kuriski Notional Institute of Technology, Sendai College 45—14.58 366 An Inter-Deciplinary and University PEL Carticulum Using Bobut Challenge 45—14.58 366 An Inter-Deciplinary and University PEL Carticulum Using Bobut Challenge 45—15.13 322 Exploring the Impact of In-Class Writing Exercises in an Engineering Course Nadeem Muthammad The University of Auckland 15—15.28 277 Creative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—15.28 277 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—15.28 277 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—14.28 347 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—14.28 347 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—14.28 347 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—14.28 347 Coronative Trinking of Engineering Undergraduates through Paramstorming during Mathematical Problem Solving 15—14.28 347 Coronative Trinking of Engineering Undergraduates through Paramstorming Undergraduates Trinking of Engineering Undergraduates Undergraduates Trinking Outsets Undergraduates Undergraduates Trinking Outsets Undergraduates Undergradua		.00 1.1.20				New 7ealand
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30—14.43 461 Objective Assessment of Students' Generic Skills Spain 45—14.58 306 An Inter-Osciplinary and University Palic Curriculum Using Rubot Challenge Howard Skills 45—14.58 307 An Inter-Osciplinary and University Palic Curriculum Using Rubot Challenge Howard Skills 45—15.28 227 Exploring the Impact of Inc Class Writing Exercises in an Engineering Course November November	Head	13 14.20	432	· · · · · · · · · · · · · · · · · · ·		Indonesia
145—14.58 30.5 An inter-Disciplinary and University PBL Curizoulum Using Robot Challenge Japan	Vajima Kurinaki National Institute of Technology, Sendial College Japan	30—14:43	461			indonesia
45—14.58 306 An Inter- Disciplinary and University PBL Curriculum. Using Robot Challenge Hisazum. Kenji. Kyudu University 322 Exploring the Impact of Inc Loss Writing Exercises in an Engineering Gouse Nadeem Muhammad The University of Auckland 15—15.28 277 Creative Thinking of Engineering Undergraduates through Stanison and unique during Mathematical Problem Solving Mohammad Yusof Yudariah University Teknologi Malaysia CCobe [Balliroom 2]: Computing & IT Education - Full Papers (10min presentations + 3min questions) Time Sub. ID Contribution Title Presenter Family Name First Name Presenter Affiliation Council 167 A Compartion Analysis between Achievement and Requirements for Computing Education Kakeshita Telsuro Saga University 15—14.28 347 Soliil Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weighted Penalty Model Nand Ramell The University of the South Pacific Seli-Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weighteds Penalty Model Nand Ramell The University of the South Pacific Seli-Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weighteds Penalty Model Nand Ramell The University of the South Pacific Nand Ramell The University of the South Pacific Seli-Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weighteds Penalty Model Nand Ramell The University of the South Pacific Nand Remarks September 1 Allocation Pacific National Project Based Learning of Theology and Designe University Programming Socialing The Natheman Singapore University of Adelaide Naturalia Socialing Theology Supported Single Training for One-On-One in Baskettabel Matches Nand Association Approach of the Marks of Pacific National Projects In Based Secure	Hard	30 14.43	401		ngy Sandai Collaga	lanan
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15-15:28 227 Creative Thinking of Engineering Undergraduates through Brainstorming during Mathematical Problem Solving Malaysia Malaysi	Creative Thinking of Engineering Undergraduates through Brainstorming during Mothematical Problems Solving Mohammad Yusof Yudariah Universit Teknologi Malaysia	20.20	022			New Zealand
Computing & IT Education - Full Papers (10min presentations + 3min questions)	Association Substitute Su	:15—15:28	227			
CCADE (Ballroom 2): Computing & IT Education - Full Papers (10min presentations + 3min questions) Time Sub. ID Contribution Title Presenter Family Name / First Name / Presenter Affiliation Court Sub- Name / First Name / Fir	Substitute Sub					Malaysia
Time Sub. ID Contribution Title Presenter Family Name / First Name / Presenter Affiliation Council 13 467 A Comparison Analysis between Achievement and Requirements for Computing Education Rakeethia Testuro Saga University Japan 15—14.28 347 Skill-Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weightled Penalty Model Nand Rayneil The University of the South Pacific Fiji Nand Rayneil The University of the South Pacific Fiji Nand Rayneil The University of the South Pacific Fiji Nand Rayneil The University of the South Pacific Fiji Nand Rayneil The University of the South Pacific Fiji Nand Rayneil The University of the South Pacific Fiji Nand Rayneil Reference of Phylacial Robot Versus Robot Simulator in Teaching Introductory Programming Sockalingam Nachamma Singapore University of Technology and Design Sockalingam Nachamma Singapore University of Technology and Design Singapore Renzella Jae Deakin University of Technology and Design Singapore University of Technology and Design Renzella Jae Deakin University of Technology Singapore University Renzella Pacific Renzella Paci	Time Sub. ID Contribution Title Presenter Family Name / First Name / Presenter Affiliation Count - 14:13 467 A Comparison Analysis between Achievement and Requirements for Computing Education Kaleshita Tetsus Saga University Japan Kaleshita Tetsus Saga University Saga			Traditional Telephone Tele		waaysa
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Nand	Name	15—14:28	347			
30—14:43 365 Skill-Based Group Allocation of Students for Project-Based Learning Courses Using Genetic Algorithm: Weightless Penalty Model Nand Ravneil The University of the South Pacific Fiji 45—14:58 344 Effectiveness of Physical Robot Versus Robot Simulator in Teaching Introductory Programming Socialingma Nachamma Singapore University of Technology and Design Singapore 30—15:13 130 SplashKit: A Development Framework for Motivating and Engaging Students in Introductory Programming Renzella Jake Deakin University Australia 45—15:28 294 Improving outcomes for a Masters Capstone IT Project 45—15:28 294 Improving outcomes for a Masters Capstone IT Project 45—15:28 294 Improving outcomes for a Masters Capstone IT Project 45—16:28 294 Improving outcomes for a Masters Capstone IT Project 45—16:28 272 Technology-Enhanced Learning - Full Papers (10min presentations + 3min questions) Time Sub. ID Contribution Title Presenter Family Name / First Name / Presenter Affiliation 45—14:28 446 A Gamification Approach For Serious Games 45—14:28 446 A Gamification Approach For Serious Games 45—14:28 446 A Gamification Approach For Serious Games 45—14:28 271 Enhanced Student Learning in Proteomics - An Interactive Tool Support for Teaching Workflows 45—14:58 271 Enhanced Student Learning in Proteomics - An Interactive Tool Support for Teaching Workflows 45—14:58 271 Enhanced Student Learning in Proteomics - An Interactive Tool Support for Teaching Workflows 45—14:58 282 Making the Most of Repetitive Mistakes: An Investigation into Heuristics for Selecting and Applying Feedback to Programming Coursework 46—14:30 374 Refetiveness of Integrating Geometer's Sketchpad Software in Phase-Based Geometric Learning 475—14:28 15—15:28 320 The Effectiveness of Integrating Geometer's Sketchpad Software in Phase-Based Geometric Learning 486—14:28 15—14:28 14 Relationships between Teacher's Self-Efficacy and Instruction of Strategies Applied among Secondary School Teachers in Implementing STEM Education	Heart Hear			Penalty Model		
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	Kazula Stefan Brandenburg University of Technology Cottbus-Senftenberg Germany	230—14:43 245—14:58 200—15:13 215—15:28 2mbla : ST Time 200—14:13 215—14:28 230—14:43 245—14:58 200—15:13	446 194 271 288 320 EM Educat Sub. ID 374 114 212 285 439	Kohda Naoya Tokushima University A Gamification Approach For Serious Games Carron Thibault LIP6, UPMC An Empirical Study on the Impact of Pre-recorded Lectures on Students' Performance Student Learning in Proteomics - An Interactive Tool Support for Te Wickramarachchi Anuradha Australian National University Making the Most of Repetitive Mistakes: An Investigation into Heuristics for S Programming Coursework Howell Roger Aston University The Effectiveness of Integrating Geometer's Sketchpad Software in Phase-Bas Mohd Zaid Norasykin Universiti Teknologi Malaysia Con (K-12) - Full Papers (10min presentations + 3min questions Contribution Title Presenter Family Name / First Name Relationship between Teachers' Self-Efficacy and Instructional Strategies Appl Implementing STEM Education Binti Ismail Zaleha Universiti Teknologi Malaysia Relationships between Collaborative Problem Solving, Learning Performance of Education Chen Li Kyushu University Cognitive Load Optimisation — A New, Practical, Easy-to-Use Teaching Method Outcomes Based on the Science of Learning Maj Stanislaw Paul SPM Consulting Playful STEAM Learning Using Robots Pandian Shunmugham R. Indian Institute of Informatical ICT Competency, Network Interaction, Internet Self-efficacy, and Mathematic Effects Lu Chun Central China Normal University Awakening the Interest of High School Pupils in Science, Technology, Engineer	rmance in Integral Calculus aching Workflows y electing and Applying Feedback to ed Geometric Learning e / Presenter Affiliation ied among Secondary School Teachers in and Learning Behavior in Science for Enhancing STEM Educational in Technology, Design and Manufacturing al Achievement: Direct and Mediating sity	France Philippines Australia UK Malaysia Country Malaysia Japan Australia India

Time			ents - Full Papers (10min presentations + 3min questions)	Country
11 me 4:00—14:13	Sub. ID 258	Evaluation of a Virtual Reality Nas	e Presenter Family Name / First Name / Presenter Affiliation	Country
4.00 14.13	230	Marks Stefan	Auckland University of Technology	New Zealand
4:15—14:28	482	Immersive Learning Explored: Sub	ojective and Objective Factors Influencing Learning Outcomes in Immersive	
		Educational Virtual Environments		
		Dengel Andreas		Germany
14:30—14:43	313	Integration of Virtual Reality and A Pita Zijad	Augmented Reality: Are They Worth the Effort in Education? Kent Institute	Australia
4:45—14:58	353	,	lation for Multi-Professional Training in Emergency Management Communications	Australia
		Prasolova-Førland Ekaterin	5 5 , 5	Norway
5:00—15:13	355	Developing Virtual Reality Open E	ducational Resources in a Sino-Foreign Higher Education Institution: Challenges and	
		Strategies		
15:15—15:28	380	Towey Dave	University of Nottingham Ningbo China rude Towards the Use of Augmented Reality to Learn Atoms and Molecules Reactions	China
.5.15—15.26	360	in a Palestinian School	due Towards the ose of Augmented Reality to Learn Atoms and Molecules Reactions	
		Ewais Ahmed	Arab American University	Palestine
			·	
Pacific 3: Co	omputing 8	IT Education - Full Papers (10min presentations + 3min questions)	
Time	Sub. ID	Contribution Title	e Presenter Family Name / First Name / Presenter Affiliation	Country
4:00—14:13	129	A Top-Down Approach to Teaching	g Web Development in the Cloud	
		Liang Zilu	The University of Tokyo	Japan
4:15—14:28	435	Tutoring Environment for Automa	ta and the Users' Achievement Goal Orientations	
		Tecson Cesar	Ateneo de Manila University, Philippines	Philippines
4:30—14:43	445	•	on Students' Performance: Does Pre-exposure to Puzzles Matter?	
		Lottering Roderick	Tshwane University of Technology	South Africa
(eira: Indu	strv Sessio	& K-12 Practitioner Session	n (15min presentations + 4min questions)	
	Sub. ID			Country
Time 4:00—14:40	501	Microsoft Teams	e Presenter Family Name / First Name / Presenter Affiliation	Country
4.00 14.40	301	Townes Megan	Microsoft	Australia
4:40—15:00	341	School / Industry STEM Partnersh	ips (SIPS)	
		Scott Matthew	•	Australia
.5:00—15:20	420	= = =	nce Teaching and Learning in Engineering Studies with Integration of Computational	
		Thinking Leung Ho Chur	ng GRC Oatley Senior Campus	Australia
Belmore : Pa	anel , Indu	try & Big Data, Analytics &	Machine Learning in Education Sessions	
Time	Sub. ID		e Presenter Family Name / First Name / Presenter Affiliation	Country
4:00—14:40	489		g Analytics Research Innovations: Challenges and Approaches	
		Whitmer John C. Kennedy Gregor	ACT, Inc The University of Melbourne	USA Australia
		Ben-Naim Dror	Smart Sparrow	Australia
		Pardo Abelardo	o University of South Australia	Australia
4:40—15:00	506	Turning STEM Grading Into Learni	<u> </u>	
5:0015:15	100	Singh Arjun Integrated Telegram and Web-ba	Gradescope by Turnitin	Australia
5:00—15:15	108	Dai Bingtian	sed Forum with Automatic Assessment of Q&A for Collaborative Learning Singapore Management University	Singapore
15:15—15:30	155	9	chnologies to Extend Knowledge Support in MOOCs	baporc
		Vigentini Lorenzo		Australia
Registration	& Fyhihit	rea		
-			Best and a Rolling of	
hibb. Triff		fternoon Tea	Registration & Exhibit Area	
5:55—15:55			A December 16 min and a time of 2 min and time of	
	lroom 1) :	ngineering Education - Sho	ort Papers (6min presentations + 2min questions)	
	Iroom 1):		e Presenter Family Name / First Name / Presenter Affiliation	Country
Γhrosby (Bal Time		Contribution Title		Country
Throsby (Bal	Sub. ID	Contribution Title	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers	Country Norway
Time 6:00—16:08	Sub. ID	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers	•
Time 6:00—16:08	Sub. ID 214	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach	
Time 6:00—16:08 6:10—16:18	Sub. ID 214	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach	Norway
Time 6:00—16:08 6:10—16:18	Sub. ID 214 316	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales	Norway
Time 6:00—16:08 6:10—16:18	Sub. ID 214 316	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software	Norway
Time 6:00—16:08 6:10—16:18 6:20—16:28	Sub. ID 214 316	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba	Norway Australia
Time 6:00—16:08 6:10—16:18 6:20—16:28	Sub. ID 214 316 300	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba the Study of Engineering Ethics	Norway Australia
Time 6:00—16:08 6:10—16:18 6:20—16:28 6:30—16:38	Sub. ID 214 316 300	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona Unplugged Game Play Motivates t Skinner lain	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba the Study of Engineering Ethics	Norway Australia Japan
Time 6:00—16:08 6:10—16:18 6:20—16:28 6:30—16:38	Sub. ID 214 316 300 264	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona Unplugged Game Play Motivates t Skinner lain Using Games for Learning to Impres Velvin Jan	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba the Study of Engineering Ethics University of New South Wales ove Students Performance in Higher Education University of Southeastern Norway	Norway Australia Japan
Time 6:00—16:08 6:10—16:18 6:20—16:28 6:30—16:38 6:40—16:48	Sub. ID 214 316 300 264	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona Unplugged Game Play Motivates t Skinner lain Using Games for Learning to Impre Velvin Jan Assessment Map for Multidisciplin	e Presenter Family Name / First Name / Presenter Affiliation ucation: How to Educate Control Engineers University of Southeastern Norway f Global Course Offerings and the UNSW Sydney Approach University of New South Wales to a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba the Study of Engineering Ethics University of New South Wales ove Students Performance in Higher Education University of Southeastern Norway hary Abilities for IoT System Development Education @based on a Robot Contest	Norway Australia Japan Australia
Time 6:00—16:08 6:10—16:18 6:20—16:28 6:30—16:38 6:40—16:48 6:50—16:58	Sub. ID 214 316 300 264 148 418	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona Unplugged Game Play Motivates t Skinner lain Using Games for Learning to Impre Velvin Jan Assessment Map for Multidisciplin Watanabe Harumi	Presenter Family Name / First Name / Presenter Affiliation Cucation: How to Educate Control Engineers University of Southeastern Norway If Global Course Offerings and the UNSW Sydney Approach University of New South Wales On a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba The Study of Engineering Ethics University of New South Wales Ove Students Performance in Higher Education University of Southeastern Norway The Property of Southeastern Norway The Property of System Development Education Based on a Robot Contest Tokai University	Norway Australia Japan Australia
	Sub. ID 214 316 300 264 148	Contribution Title A Holistic View on Engineering Edu Samuelsen Dag A. H Smart Grid Education: A Review of Konstantinou Georgios From an International Classroom t Engineering Vasilache Simona Unplugged Game Play Motivates t Skinner lain Using Games for Learning to Impre Velvin Jan Assessment Map for Multidisciplin Watanabe Harumi	Let Presenter Family Name / First Name / Presenter Affiliation Lucation: How to Educate Control Engineers University of Southeastern Norway If Global Course Offerings and the UNSW Sydney Approach University of New South Wales Lo a Distributed Work Environment: Student Perspectives on Global Software University of Tsukuba The Study of Engineering Ethics University of New South Wales Love Students Performance in Higher Education University of Southeastern Norway Larry Abilities for IoT System Development Education Based on a Robot Contest Tokai University Locademic Satisfaction in a Culturally Diverse University	Australia Japan Australia Norway

/IcCabe (Bal	<u>lroom 2)</u> :	Big Data, Analytics &	& Machine Learnin	g in Education and Industry Sessions	
Time	Sub. ID	Contribu	ition Title Presente	r Family Name / First Name / Presenter Affiliation	Country
:00—16:08	245	Artificial Intelligence to F	Enhance Learning Design	n in UOW Online, a Unified Approach to Fully Online Learning	
		Cao	Trinh	University of Wollongong	Australia
:10—16:18	263	Using Data Mining and N	Machine Learning Appro	aches to Observe Technology-Enhanced Learning	
		Howard	Sarah Katherine	University of Wollongong	Australia
5:20—16:28	415	9		and Video Recordings: A Machine Learning Approach	6:
. 20 46 20	44.5	Kashyap	Mohan	Nanyang Technological University	Singapore
6:30—16:38	416	Hybrid Fuzzy-Statistical S Sohail	System for Learning Ana Shaleeza	King's Own Institute	Australia
6:40—17:00	506	Turning STEM Grading Ir		King 5 Own institute	Australia
0.40 17.00	300	Singh	Arjun	Gradescope by Turnitin	Australia
			•	· ·	7100010110
loskins (Bal	<u>lroom 3)</u> :	Technology-Enhance	ed Learning - Short	Papers (6min presentations + 2min questions)	
Time	Sub. ID	Contribu	ition Title Presente	r Family Name / First Name / Presenter Affiliation	Country
6:00—16:08	436		r Thinking Skill with the	120-Minute Instructional Station Rotation (MRSP120) Approach:	
		Students' Perceptions	Narasylvia	Universiti Teknologi Malaysia	Malaysia
5:10—16:18	150	Mohd Zaid	Norasykin	Universiti Teknologi Malaysia	Malaysia
0.10—10.16	150	Mirzaei	Siamak	ing and Strategy Teaching App Flinders Univesity	Australia
5:20—16:28	225			ss Domain ICT Talent in Digital Economy	Australia
10.20		Wu	Hsin-jung	Institute for Information Industry	Taiwan
6:30—16:38	273			Ise of Learning Modules, Instantaneous Feedback and Automated	
20.00		Marking	, 5	G - 1.1 2.7	
		Rattadilok	Prapa	University of Nottingham Ningbo China	China
6:40—16:53	329	Improving Feedback and	l Discussion in MOOC Pe	eer Assessment using Introduced Peers - Full Paper (10min pres +3min)	
		Gamage	Dilrukshi	University of Moratuwa	Sri Lanka
<u>embla</u> : ST	EM Educat	ion (K-12) - Short Pa	pers (6min present	ations + 2min questions)	
Time	Sub. ID	Contribu	ition Title Presente	r Family Name / First Name / Presenter Affiliation	Country
6:00—16:08	268	Supporting Physics Teac	hers to Deliver the New	High School Certificate Syllabus: What are the Priorities?	
		Jarrett	Lorna Elaine	University of Wollongong	Australia
6:10—16:18	390	Teaching Mathematics v			
	40.4	Hamilton	Tara Julia	Macquarie University	Australia
6:20—16:28	424	9	5	Gamification, and Social Context in STEM Education	Thailand
6:30—16:38	428	Pataranutaporn	Pat	King Mongkut's University of Technology Thonburi n in Biology, Engineering and Design	mananu
.0.30—10.36	420	Subsoontorn	Pakpoom	Naresuan University	Thailand
6:40—16:48	477	Preparing Australian Hig	•	•	mananu
10.40	477	Shields	Rebecca	Central Queensland University	Australia
6:50—16:58	319			n on Malaysian School Students' Interest in STEM	rastrana
		Mohd Zaid	Norasykin	Universiti Teknologi Malaysia	Malaysia
			·		
acific 1 & 2	: XR & Im	mersive Learning Env	vironments - Short	Papers (6min presentations + 2min questions)	
Time	Sub. ID	Contribu	ition Title Presente	r Family Name / First Name / Presenter Affiliation	Country
5:00—16:19	419	Scaling Immersive Learn	ing Technology at TAFE	NSW (VET Practitioner 15min presentation + 4min questions)	
		Dean	David	TAFE NSW	Australia
6:20—16:28	421	Evaluating Alternative In	put Techniques for Buil	ding and Construction VR Training	
		Dean	David	TAFE NSW	Australia
6:30—16:38	292	Augmented Reality Expe	eriences in Informal Edu	cation	
		Petrovich Jr.	Mark Eugene	Drexel University	USA
6:40—16:48	458		_	gies to Train Automotive Technicians	
20.10		Rymer	Maureen	San Diego State University	USA
	201	•		-	55A
6.EO 17.05	381	_	-	Learning (Full paper 10min presentation + 3min questions)	A.,,et.,=!'-
6:50—17:05		Reinoso	Martin	The University of Melbourne	Australia
6:50—17:05					
	dustry Ses	sion			
	dustry Ses		ition Title Presente	r Family Name / First Name / Presenter Affiliation	Country
acific 3 : In			•		Country
Pacific 3 : In	Sub. ID	Contribu	•		Country Australia
6:50—17:05 Pacific 3: In Time 6:00—16:40 6:40—17:20	Sub. ID	Contribu Seamless, Intelligent Me Kuttner	chatronics Innovation P Filip	latform	Country Australia

Keira: Panel Session							
Time	Sub. ID	Contrib	ution Title Present	er Family Name / First Name / Presenter Affiliation	Country		
16:00—17:20		Panel Session - Learning	Panel Session - Learning Technology Standards				
		Wait	Lisa	eWorks	Australia		
		Chadwick	Ben	Education Services Australia	Australia		
		Saliah-Hassane	Hamadou	TÉLUQ University	Canada		
		Jon	Mason	Charles Darwin University	Australia		

<u>beimore</u> : Pa	inei Sessio	n						
Time	Sub. ID	Contrib	Contribution Title Presenter Family Name / First Name / Presenter Affiliation					
16:00—17:20		Women in Engineering	Vomen in Engineering Networking Panel					
		Chakraborty	Sudipta	Macquarie University	Australia			
		Ros	Montserrat	University of Wollongong	Australia			
		Cheng	Eva	University of Technology, Sydney	Australia			
		Goncher	Andrea	Charles Sturt University	Australia			
		Vial	Alanna	University of Wollongong	Australia			

Lagoon Seafood Restaurant

18:00-22:00 3-5min walk from conference hotel **Gala Dinner**

Thursday, 6 Dec 2018

Chang

Maneeratana

10:30-10:43

269

Day #3: Novotel Wollongong Northbeach

08:30-16:30 Registration Registration & Exhibit Area

Pei-Hua

Kuntinee

<u>Throsby (Ballroom 1)</u>: Engineering Education - Full Papers (10min presentations + 3min questions) Sub. ID Contribution Title | Presenter Family Name / First Name / Presenter Affiliation Time Country 9:30-9:43 251 Theory And Practice In A Systems Integration Project Life Cycle Wolff Karin South Africa University of Stellenbosch 9:45-9:58 470 Exploring Approaches for Teaching and Learning Engineering Asset Management Courses University of Wollongong in Dubai UAE Complete Flipping of a Large Advanced Analytical Course: Engaging Students as Partners 10:00-10:13 183 Thite Swapneel **UNSW Sydney** Sydney 10:15-10:28 161 A Study on The Process and Effect of Using Cooperative Learning Approach into Electronics Lecture Taiwan

Kun Shan University

Chulalongkorn University

Thailand

Copyright Awareness and Video Assignment: A Case Study on Thai First-Year Engineering Students

McCabe (Ballroom 2): Computing & IT Education - Full Papers (10min presentations + 3min questions)								
Time	Sub. ID	Contril	bution Title Presen	ter Family Name / First Name / Presenter Affiliation	Country			
9:30—9:43	131	Verifying User Concen	Perifying User Concentration Based on Brainwave Control Applied to Different Game Training Methods					
		Liu	Chui Yuan	Institute for Information Industry	Taiwan			
9:45—9:58	172	Framework to Enhanc	e Teaching and Learnin	g in System Analysis and Unified Modelling Language				
		Muñoz Carpio	Juan Carlos	Central Queensland University	Australia			
10:00—10:13	185	International Compari	son of College-Level Co	mputing Education				
		Kakeshita	Tetsuro	Saga University	Japan			
10:15—10:28	213	Redesigning a Compul	sory Computing Interns	ship Course for Massification				
		Chng	Sue Inn	Sunway University	Malaysia			
10:30—10:43	344	Developing a Language	e Learning Application (OER				
		Towey	Dave	University of Nottingham Ningbo China	China			

	Sub. ID	Contribution Title Prese	enter Family Name / First Name / Presenter Affiliation	Country
30-9:43		Applied Learning Through Industry Lab In A	Course On RF Engineering & EMC	
		Venkatarayalu Neelakantam	Singapore Institute of Technology	Singapore
45—9:58		Pedagogy for the Practising Engineer: A Clo	sed Loop Feedback Control Analogy to Teaching and Learning	
		McLauchlan Craig	University of Wollongong	Australia
:00—10:13		Understanding Common Student Mistakes i	in the Remote Laboratory NetLab	
		Considine Hugh	University of South Australia	Australia
0:15—10:28		Smart Learning in the Pacific: Design of Nev	v Pedagogical Tools	
		Nand Ravneil	The University of the South Pacific	Fiji
0:30—10:43		Evaluation of Automatic Collaborative Learn	ning Process Coding Using Deep Learning Methods	
		Shibata Chihiro	Tokyo University of Technology	Japan
eira : One	n Elevible	. Workplace Learning - Full Paners	(10min presentations + 3min questions)	
				Carratus
Time	Sub. ID	•	enter Family Name / First Name / Presenter Affiliation	Country
30—9:43	345	Learning Management Systems in the Work		
		Sabharwal Renu	Central Queensland University	Australia
:45—9:58	293	Student Collegiality in Interdisciplinary Glob		
		Mitric Damir	La Trobe University	Australia
0:00—10:13	405	An Intervention Study on the Professional A	Adaptability of Students in Navigation Course of Educational Technology	
		Wu Yong he	East China Normal University	China
0:15—10:28	348	Transnational Interactive Blended Learning	: A Learning Community of Practice	
		Wang Minjuan	San Diego State University	USA
elmore : Si	pecial & Ind	ustry Sessions		
Time	Sub. ID		enter Family Name / First Name / Presenter Affiliation	Country
30—10:10	478	Designing Virtual Learning Experiences: Iter	•	Country
.50 10.10	470	Dongas Robert	The University of Sydney	Australia
0:10—10:30	506	Festo/LabVolt Electromechanical Systems –	, , ,	Australia
0.10 10.50	300	Lewis Martin	Duff and Macintosh-Festo LabVolt	Australia
		on Only		
<u>soardroom</u> :	By Invitat			
Time	Sub. ID		enter Family Name / First Name / Presenter Affiliation	Country
Time		Contribution Title Prese	enter Family Name / First Name / Presenter Affiliation	Country
Time	Sub. ID		enter Family Name / First Name / Presenter Affiliation	•
Time :30—10:45	Sub. ID N/A	Contribution Title Prese	enter Family Name / First Name / Presenter Affiliation	•
Time :30—10:45 Registration 0:45—11:15	Sub. ID N/A	Contribution Title Prese	enter Family Name / First Name / Presenter Affiliation Registration & Exhibit Area	•
Time:30—10:45 Registration:0:45—11:15	Sub. ID N/A & Exhibit A	Contribution Title Prese TALE Steering Committee Meeting rea Morning Tea		R10
Time:30—10:45 Registration:0:45—11:15	Sub. ID N/A & Exhibit A	Contribution Title Presentation Title Presentat	Registration & Exhibit Area	R10
Time :30—10:45 Registration 0:45—11:15 Throsby (Bal	Sub. ID N/A & Exhibit A	Contribution Title Presentation Title Presentat	Registration & Exhibit Area ers (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation	R10
Time :30—10:45 Registration 0:45—11:15 Throsby (Bal	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID	Contribution Title Presentation Title Presentat	Registration & Exhibit Area ers (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation	R10
Time :30—10:45 Registration 0:45—11:15 Throsby (Bal Time 1:20—11:28	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID	Contribution Title Presentation Title Presentation Title Presentation TALE Steering Committee Meeting Tea Morning Tea Engineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence for	Registration & Exhibit Area ers (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University	n Country
Time :30—10:45 Registration 0:45—11:15 Throsby (Bal	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132	Contribution Title Presentation Title Presentation Title Presentation TALE Steering Committee Meeting Tea Morning Tea Engineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free	Registration & Exhibit Area ers (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences	n Country Finland
Time 30—10:45 Registration 0:45—11:15 Chrosby (Ball Time 1:20—11:28	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Engineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M.	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho	n Country
Time 30—10:45 Registration 0:45—11:15 Chrosby (Ball Time 1:20—11:28	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Engineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Design	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason	n Country Finland Portugal
Time 30—10:45 Registration 0:45—11:15 Chrosby (Ball Time 1:20—11:28 1:30—11:38	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182 370	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Ingineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Designation Gillet Denis	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason cole Polytechnique Fédérale de Lausanne	n Country Finland
Time 30—10:45 Registration 0:45—11:15 Chrosby (Ball Time 1:20—11:28 1:30—11:38	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Engineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Design Gillet Denis Facilitating the Development of Humor in Estate Tale Presentations Tale Pr	Registration & Exhibit Area ers (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason cole Polytechnique Fédérale de Lausanne Electrical Engineering Students	n Country Finland Portugal Switzerland
Time :30—10:45 Registration 0:45—11:15 Throsby (Ball Time 1:20—11:28 1:30—11:38 1:40—11:48	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182 370 168	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Ingineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Design Gillet Denis Facilitating the Development of Humor in Education O'Shea Peter	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason cole Polytechnique Fédérale de Lausanne Electrical Engineering Students The University of Queensland	n Country Finland Portugal
Time 30—10:45 Registration 0:45—11:15 Chrosby (Ball Time 1:20—11:28 1:30—11:38 1:40—11:48	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182 370	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Contribution Title Presentation Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Design Gillet Denis Facilitating the Development of Humor in E O'Shea Peter Context and Input Evaluations of Physical F	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason cole Polytechnique Fédérale de Lausanne electrical Engineering Students The University of Queensland eitness Training Programs in Maritime Schools	n Country Finland Portugal Switzerland Australia
Time :30—10:45 Registration 0:45—11:15 Throsby (Bal Time 1:20—11:28	Sub. ID N/A & Exhibit A Iroom 1): Sub. ID 132 182 370 168	Contribution Title Presentation TALE Steering Committee Meeting Tea Morning Tea Ingineering Education - Short Pape Contribution Title Presentation Systems Intelligence: A Core Competence of Hämäläinen Raimo Pertti Academic Expectations for Engineering Free Vasconcelos Rosa M. Active Interdisciplinary Learning in a Design Gillet Denis Facilitating the Development of Humor in Education O'Shea Peter	Registration & Exhibit Area ors (6min presentations + 2min questions) & Industry Session enter Family Name / First Name / Presenter Affiliation for Next- Generation Engineers? Aalto University shmen: Gender Differences University of Minho on Thinking Course: Going to Class for a Reason cole Polytechnique Fédérale de Lausanne electrical Engineering Students The University of Queensland eitness Training Programs in Maritime Schools Maritime Academy of Asia and the Pacific	n Country Finland Portugal Switzerland

Time	Sub. ID	Contribution Title Presenter Family Name / First Name / Presenter Affiliation	Country
1:20—11:28	127	How We Face Globalization of Chinese Education	
		Zhao Liang Shenyang Aerospace University	China
1:30—11:38	309	Active Learning to Develop Key Research Skills in Master's Level Computer Science Coursework	
1.40 11.40	401	Carlson Trevor E. National University of Singapore	Singapore
1:40—11:48	401	Teaching Key Machine Learning Principles Using Anti-Learning Datasets Roadknight Chris University of Nottingham Ningbo China	China
1:50—11:58	430	A Proposal for Integrating Gamification into Task-Oriented Portfolio Assessment	Cillia
11.50	430	Renzella Jake Deakin University	Australia
loskins (Ral	Iroom 3) ·	Technology-Enhanced Learning - Short Papers (6min presentations + 2min questions) & Industr	ry Session
Time	Sub. ID	Contribution Title Presenter Family Name / First Name / Presenter Affiliation	Country
1:20—11:28	256	Knowledge Sharing in Digital Learning Communities: A Comparative Review of Issues between Education and Industry	
		Jackson Timothy Michael University of Wollongong	Australia
1:30—11:38	343	Adopting Good-Learners' Paths in an Intelligent Tutoring System	
		Meliana Selly Telkom University	Indonesia
1:40—11:48	160	Smart Phone Endowed Intelligent Teaching for University General Education Curriculum in China	
		Liu Zhen South China University of Technology	China
1:50—11:58	186	Using Trello to Support Agile and Learning with Scrum and Kanban in Teacher Professional Development	
		Inkila Milla The Mind Lab	New Zealand
.2:00—12:08	149	TSP: Truthful Grading-Based Strategyproof Peer Selection for MOOCs	
		Wang Yufeng Nanjing University of Posts and Telecommunications	China
2:10—12:30	503	Enhancing Digital Learning in Engineering, Solved	•
		Sofios Haritos Smart Sparrow	Australia
<u>(embla</u> : XF	R & Immers	ive Learning Environments - Short Papers (6min presentations + 2min questions) & Industry Seconds (1997) Contribution Title Presenter Family Name / First Name / Presenter Affiliation	
Time	Sub. ID	Contribution Title Presenter Family Name / First Name / Presenter Affiliation	
Time 1:20—11:28	Sub. ID	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach	Country
Time	Sub. ID 103	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong	Country
Time 1:20—11:28	Sub. ID 103	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment)	Country Hong Kong
Time 1:20—11:28 1:30—11:38	Sub. ID 103 249	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin	Country Hong Kong
Time 1:20—11:28 1:30—11:38	Sub. ID 103 249	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering	Country Hong Kong Ireland
Time 1:20—11:28 1:30—11:38 1:40—11:48	Sub. ID 103 249 258	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology	Country Hong Kong Ireland
Time 1:20—11:28 1:30—11:38 1:40—11:48	Sub. ID 103 249 258	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology Why Don't You Evacuate Speedily? Augmented Reality-Based Evacuee Visualisation in ICT-based Evacuation Drill Mitsuhara Hiroyuki Tokushima University	Country Hong Kong Ireland New Zealand
Time 1:20—11:28 1:30—11:38 1:40—11:48 1:50—11:58	Sub. ID 103 249 258 362	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology Why Don't You Evacuate Speedily? Augmented Reality-Based Evacuee Visualisation in ICT-based Evacuation Drill Mitsuhara Hiroyuki Tokushima University An Evaluation of Nursing Student Motivation to Learn through Holographic Mixed Reality Simulation	Country Hong Kong Ireland New Zealand
Time 1:20—11:28 1:30—11:38 1:40—11:48 1:50—11:58 2:00—12:08	Sub. ID 103 249 258 362 452	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology Why Don't You Evacuate Speedily? Augmented Reality-Based Evacuee Visualisation in ICT-based Evacuation Drill Mitsuhara Hiroyuki Tokushima University An Evaluation of Nursing Student Motivation to Learn through Holographic Mixed Reality Simulation Hauze Sean San Diego State University	Country Hong Kong Ireland New Zealand Japan
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Time .1:20—11:28 .1:30—11:38 .1:40—11:48 .1:50—11:58 .2:00—12:08 .2:10—12:18 .2:20—12:33	Sub. ID 103 249 258 362 452 481 327	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology Why Don't You Evacuate Speedily? Augmented Reality-Based Evacuae Visualisation in ICT-based Evacuation Drill Mitsuhara Hiroyuki Tokushima University An Evaluation of Nursing Student Motivation to Learn through Holographic Mixed Reality Simulation Hauze Sean San Diego State University Seeking the Treasures of Theoretical Computer Science Education: Towards Educational Virtual Reality for the Visualization of Finite State Machines Dengel Andreas University of Passau The Potential of Augmented Reality for Computer Science Education (Full paper 10min presentation + 3min questions) Resnyansky Dmitry University of South Australia	Country Hong Kong Ireland New Zealand Japan USA Germany Australia
Time 1:20—11:28 1:30—11:38 1:40—11:48 1:50—11:58 2:00—12:08 2:10—12:18 2:20—12:33 Keira: Indu	Sub. ID 103 249 258 362 452 481 327 stry Session Sub. ID	Contribution Title Presenter Family Name / First Name / Presenter Affiliation Using Virtual Reality to Enhance Learning in a Chinese Architectures Course: A Flipped Classroom Approach Im Siu Wo Tarloff City University of Hong Kong AHA: ADHD Augmented (Learning Environment) Hasegawa Tomonori University College Dublin Extending a Virtual Reality Nasal Cavity Education Tool with Volume Rendering Marks Stefan Auckland University of Technology Why Don't You Evacuate Speedily? Augmented Reality-Based Evacuae Visualisation in ICT-based Evacuation Drill Mitsuhara Hiroyuki Tokushima University An Evaluation of Nursing Student Motivation to Learn through Holographic Mixed Reality Simulation Hauze Sean San Diego State University Seeking the Treasures of Theoretical Computer Science Education: Towards Educational Virtual Reality for the Visualization of Finite State Machines Dengel Andreas University of Passau The Potential of Augmented Reality for Computer Science Education (Full paper 10min presentation + 3min questions) Resnyansky Dmitry University of South Australia Contribution Title Presenter Family Name / First Name / Presenter Affiliation The Future of Industry and Preparing the Future Workforce	Country Hong Kong Ireland New Zealand Japan USA Germany Australia
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Boardroom:	Special Se	ession (Part 1)			
Time	Sub. ID	Contrib	oution Title Present	ter Family Name / First Name / Presenter Affiliation	Country
11:20—12:40	226	Enhancing Class Intera	ctivity—Teaching and L	earning Professional Development Session (Part 1)	
		Dean	Bonnie Amelia	University of Wollongong	Australia

Windjammers Restaurant

12:30—13:35 Lunch Windjammers Restaurant

Throsby (Bal	<u>lroom 1)</u> :	Engineering Educat	ion - Short Papers	(6min presentations + 2min questions)	
Time	Sub. ID	Contrib	ution Title Present	er Family Name / First Name / Presenter Affiliation	Country
13:40—13:48	307	Praxis-Oriented Teachin	ng of Project Managem	ent Skills for STEM Students in Higher Education	
		Rich	Beatrice M.	Brandenburg University of Technology	Germany
13:50—13:58	308	Preparing STEM Studer	nts for Leading Positions	s through Supervising Younger Students	
		Worlitz	Jane	Brandenburg University of Technology	Germany
14:00—14:08	340	'Learning 4.0': A Conce	ptual Discussion		
		Klopp	Marco	Aschaffenburg University of Applied Sciences	Germany
14:10—14:18	193	Development of a Real- Ship Handling Exercise	-Time Evaluation Suppo	rt System Using Physiological Index: Case Study of a Simulator-Based	
		Murai	Koji	Tokyo University of Marine Science and Technology	Japan
14:20—14:28	400	The Impact of Final Ter	m Exam Exemption Poli	cy: Case Study at MAAP	
		David	Lawrence C. G.	Maritime Academy of Asia and the Pacific	Philippines
14:30—14:38	377	A Preliminary Study of Engineering Course	the Implementation of	Concept Maps for Teaching and Learning Strategies in a Power	
		Aziz	Anees Binti Abdul	Universiti Teknologi MARA	Malaysia
14:40—14:48	392	Empowering Weak Eng Weak Students	ineering Students throu	ugh My UiTM Engineer Program and Understanding the Characteristics of	
		Hussin	Hanim	Universiti Teknologi MARA	Malaysia
14:50—14:58	179	Multidisciplinary Stude	nt Performance-Based	Teaching Design for Engineering Design via a Commercial Case	
		Liu	Zhen	South China University of Technology	China

Time	Sub. ID	Contri	bution Title Present	ter Family Name / First Name / Presenter Affiliation	Country		
13:40—13:48	472	Engineering Students	Engineering Students at Day Zero: Selection and Concerns by Gender				
		Nikolic	Sasha	University of Wollongong	Australia		
13:50—13:58	143	Towards a Holistic App	proach to Improve the R	etention Rate of Freshmen in Engineering			
		Abid	Muhammad Irfan	Riphah International University, Faisalabad	Pakistan		
14:00—14:08	278	Readiness of Japanese	Elementary School Tea	chers to Begin Computer-Programming Education			
		Ohashi	Yutaro	Nippon Institute of Technology	Japan		
14:10—14:18	397	The Beneficial Effects Servant Leadership Pr		erated Engineering Education Outreach Program: A Case Study of the			
		Jung	Eunju	Korea University	South Korea		

Hoskins (Bal	<u>lroom 3)</u> :	Technology-Enhand	ced Learning - Sho	ort Papers (6min presentations + 2min questions)			
Time	Sub. ID	Contrib	oution Title Present	ter Family Name / First Name / Presenter Affiliation	Country		
13:40—13:48	376	A Blended Learning Ap	lended Learning Approach to Experiential STEM Education for Young Learners				
		Ng	David C	Shantou University	China		
13:50—13:58	410	Quality Assurance of a	Hybrid Online Course t	hrough Iterative Process Control			
		Wan	Han	Beihang University	China		
14:00—14:08	426	Teaching Students abo	out Machine Learning th	rough a Gamified Approach			
		Rattadilok	Prapa	University of Nottingham Ningbo China	China		
14:10—14:18	459	Towards Smart Educat	ional Recommendation	s with Reinforcement Learning in Classroom			
		Hei	Xiaojun	Huazhong University of Science and Technology	China		
14:20—14:28	330	Blended Learning for t	he Indo-Pacific				
		Worthington	Tom	Australian National University	Australia		
14:30—14:38	351	The Use of Multiple-Ch	noice Questions in 3rd-\	Year Electronic Engineering Assessment: A Case Study			
		Bremner	Duncan James	University of Glasgow	UK		
14:40—14:48	433	International Experien	ces and the Implication	s for the Success of Engineering Programs			
		Vasconcelos	Rosa M.	University of Minho	Portugal		

Time	Sub. ID	Conti	ribution Title Preser	nter Family Name / First Name / Presenter Affiliation	Country
3:40—13:48	133	Designing Immersive	Designing Immersive Mobile Mixed Reality for Paramedic Education		
		Cochrane	Thomas Donald	Auckland University of Technology	New Zealand
3:50—13:58	180	Embedding Mixed Ro	eality in Humanitarian Lo	ogistics Gaming	
		William	Linda	National University of Singapore	Singapore
:00—14:08	368	A Novel Augmented	Reality Guidance System	n for Future Informatization Experimental Teaching	
		Cao	Yanpeng	Southeast University	China
10—14:18	373	An Experimental Res	earch of Augmented Rea	ality Technology From the Perspective of Mobile Learning	
		Cai	Wu	South China Normal University	China
20—14:28	451	Design and Practice of Exploratory Virtual Experiment in Physics Discipline			
		Yu	Shufan	Central China Normal University	China
:30—14:38	497	Integrating an Intelli Environment	gent Tutoring System wi	th a Dialogue Manager for Procedural Training in a 2D/3D Virtual	
		Paladines	José	Universidad Estatal del Sur de Manabí	Ecuador
:40—14:48	480	Examining the Impac	ct of Pedagogical Agents	on Students Learning Expirience in Virtual Worlds	
		Nikolic	Sasha	University of Wollongong	Australia

<u>Keira</u> : Ope	n, Flexible	& Workplace Learn	ing - Short Papers	(6min presentations + 2min questions)			
Time	Sub. ID	Contrib	ution Title Present	er Family Name / First Name / Presenter Affiliation	Country		
13:40—13:48	147	Characterizing Concept Conveying in Interactions between MOOC Students and Assistants					
		Wu	Xiao-Xiao	Central China Normal University	China		
13:50—13:58	454	Harnessing OERs in Ho	ng Kong Technical and \	vocational Education and Training (TVET)			
		Towey	Dave	University of Nottingham Ningbo China	China		
14:00—14:08	471	Open-Space Teaching a	and Learning in Tertiary	Education: A Case Study			
		Ramezanianpour	Mohammad	Ara Institute of Canterbury	New Zealand		
14:10—14:18	488	EntreCompOnto: An Or	ntology for Semantic Re	epresentation of Entrepreneurship Competencies			
		Tovar	Edmundo	Universidad Politécnica de Madrid	Spain		
14:20—14:28	463	Surviving in the Gig Eco	onomy: Change of STEM	1 Students' Perceptions on the Generic Skills for the Workplace			
		Mark	Kai Pan	The Hong Kong Polytechnic University	Hong Kong		

Time	Sub. ID	Cont	tribution Title Prese	nter Family Name / First Name / Presenter Affiliation	Country
13:40—15:00	490	Online Laboratories	in Engineering Educatio	n: Innovation, Disruption, and Future Potential	
		Saliah-Hassane	Hamadou	TÉLUQ University	Canada
13:40—15:00	201	PILAR: A Federation	of VISIR Remote Labora	tory Systems for Educational Open Activities	
		Loro	Felix Garcia	UNED, Spain	Spain
<u>Boardroom</u> :	: Special Si	ession (Part 2)			
Time	Sub. ID	Con	tribution Title Prese	enter Family Name / First Name / Presenter Affiliation	Country
13:40—15:00	226	Enhancing Class Int	eractivity— Teaching an	d Learning Professional Development Session (Part 2)	
		Dean	Bonnie Amelia	University of Wollongong	Australia
Registration	2 Evhibit	Aroo			
Registration	& EXIIIDIL /	Area			
15:00—15:30	•	Afternoon Tea		Registration & Exhibit	Area
Grand Ballro	om				
15:34—16:20		Keynote by Emeritu	ıs Professor James Tre	evelyan Grand Ballroom	
		Awards and Closing	_	Grand Ballroom	

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17:00-18:00

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The Deck

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Southeast Asia – Ford Lumban Gaol, BINUS University, Indonesia

Oceania - Demetrios G. Sampson, University of Piraeus, Greece and Curtin University, Australia; David Tien, Charles Sturt University, Australia

Special Track Chairs

Special Track on Engineering of Technologies for Learning – Mark J. W. Lee, Charles Sturt University, Australia; Edilson Arenas, Central Queensland University, Australia; Leon C. U. Lei, The University of Hong Kong

Special Track on X-Reality and Immersive Learning Environments – Jonathon Richter, Salish Kootenai College, USA; Minjuan Wang, San Diego State University, USA; Nian -Shing Chen, National Sun Yet-sen University, Taiwan; Mark J. W. Lee, Charles Sturt University, Australia

Special Track on Big Data, Analytics and Machine Learning in Education - Abelardo Pardo, University of South Australia; Vitomir Kovanović, University of South Australia

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