

## program

### IE'14 - Programme

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IE'14 Programme														
	30 <sup>th</sup> June		1 <sup>st</sup> July			2 <sup>nd</sup> July			3 <sup>rd</sup> July			4 <sup>th</sup> July		
8:30						Registration								
9:00	WOPIEE	ACIE	CS	WORIE	Industry Forum	Conference Opening			Closed Doctorial Sessions (Gordon Hunter)			Demos/ Posters		
9:30						Keynote 1 (Yu Zheng)			Open Doctorial Sessions (Gordon Hunter)			Davy Preuveeners & Gang Chen		
10:30	COFFEE BREAK													
11:00	WOPIEE	ACIE	CS	WORIE	Industry Forum	Ed-Forum (Session 1A)	Conference (Session 1B)	Conference (Session 1C)	Ed-Forum (Session 3A)	Conference (Session 3B)	Conference (Session 3C)	Ed-Forum (Session 3A)	Conference (Session 3B)	Conference (Session 3C)
13:00	LUNCH													
14:00	AITAmI	HyperCities			Industry Forum	Ed-Forum (Session 2A)	Conference (Session 2B)	Conference (Session 2C)	Ed-Forum (Session 4A)	Conference (Session 4B)	Conference (Session 4C)	Keynote 4 (Gordon Hunter)		
16:00	COFFEE BREAK													
16:30	AITAmI	HyperCities	Singularity Film		Singularity Film			Video paper screening (30 mins)						
17:30												Keynote 3 (Yuan Chun Shi)		
18:30	Workshop Reception		Workshop Closing		Invited talk 2 (Doug Wolens)									
					Conference Reception									
								Conference banquet						

### Industry Forum Programme

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Time	Event
9:00	Shanghai --- the Smart City, by officer from Shanghai government
9:30	The strategy of telecoms industry on Smart City, by Prof. Haining Yan, ComService Shanghai ( <a href="http://www.chinaccs.com.hk/eng/global/home.htm">http://www.chinaccs.com.hk/eng/global/home.htm</a> )
10:00	“Research and Practice on e-healthcare system”, by Jinjun Lu, President, Shanghai Ideal information Industry(Group)Co.,Ltd ( <a href="http://www.ideal.sh.cn">http://www.ideal.sh.cn</a> )
10:30	Coffee break
11:00	21 <sup>st</sup> Century Robot: A Science Fiction Prototype by Brian Jepson, Intel via SKYPE
11:30	Application of Fiber Optic Sensor Network in Smart Environment, by Dr. Feng Xie, Shanghai Zhangjiang Internet-of-Things Industry Alliance.
12:00	Application of IOT in Agricultural Ecosystem, by Dr. Junming He, President, Wuxi Kaiyi Internet of Things Technology Co., Ltd. ( <a href="http://www.kywlw.com">http://www.kywlw.com</a> )
12:30	Lunch
13:30	Intelligent Environment, Context Awareness and Smart City, by Dr. Tao Yu, CTO, Shanghai Yibang Intelligent Technology Co., Ltd. ( <a href="http://www.yibang.net">http://www.yibang.net</a> )
14:00	Information Fusion in Intelligent Environments, by Xiqing Shi, Vice President, Shanghai TongTech Software Technology Co., Ltd. ( <a href="http://www.tongtech.com">www.tongtech.com</a> )
14:30	Standardization Work on Smart Cities, by Yuan Yuan, China Electronics Standardization Institute. ( <a href="http://www.cesi.cn">www.cesi.cn</a> )
15:00	Coffee break
15:30	Documentary film "Singularity" and discussion with the film maker <a href="#">Doug Wolens</a>

### Conference Programme

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<p><b>2<sup>nd</sup> July 11am - 1pm (4)</b>- Session Chair: Liping Shen, Rm: 308</p> <p><b>Session 1A: Education Forum 1</b></p>	<p><b>2<sup>nd</sup> July 11am - 1pm (4)</b>- Session Chair: Juan Carlos Augusto, Rm:309</p> <p><b>Session 1B: Smart City</b></p>	<p><b>2<sup>nd</sup> July 11am - 1pm (4) -</b> Session Chair: Simon Egerton, Rm: 315</p> <p><b>Session 1C: Internet of Things</b></p>
<p>OPENING TALK - Minjuan Wang &amp; Jiang Zhibin</p>	<p>(66-F)<i>Efficient Post-processing Signal Detecting for Distributed Environment Monitoring in Smart Grid</i></p> <p>by Yujie Liang, Rendong Ying, Peilin Liu</p>	<p>(127_F) <i>Design of a hybrid router for bridging heterogeneous embedded IP networks in ambient intelligence applications</i></p> <p>by Sam A. Catapang, Kevin I-Kai Wang, Zoran Salcic, Zachary J. M. Roberts</p>
<p>(55-F) <i>Mobile Learning Design: the LTCS Model</i></p> <p>by Minjuan Wang, Jun Xiao, Yong Chen, Wang Min</p>	<p>(84-F) <i>OntoPolis: A semantic participatory platform for performance assessment and augmentation of urban environments</i></p> <p>by Achilleas Psyllidis, Nimish Bitoria</p>	<p>(85-F) <i>D&amp;S Barcode: A dynamic and sensitive barcode for intelligent environment monitoring</i></p> <p>by Zhigang Li,Weiwei Chen</p>
<p>(60-F) An Experimental Study of Instructor Immediacy and Cognitive Learning in an Online Classroom</p> <p>by Lorah W. Bodie, Marcie Bober-Michel</p>	<p>(90-F) <i>Evaluation Model and Indicator System of Informationization Applications and Services in Smart Cities</i></p> <p>by Yuan Yuan, Tangli Liu</p>	<p>(151-SC) <i>Application of ISFET Microsensors with Mobile Network to Build IoT for Water Environment Monitoring</i></p> <p>by Feifei Cao, Feng Jiang, Ziqinq Liu, Bang Chen, Zhu Yang</p>
<p>(70-SC) <i>Elementary School Students' Perceived Usefulness and Perceived Ease of Use with an eBooks Learning System in China</i></p> <p>by Haijiao Shen, Liming Luo, Zhong Sun, JianchuanMeng</p>	<p>(83-F) <i>Biosensing in the Kampung</i></p> <p>by Marc Böhlen, Ilya Maharika, Ziyang Yin, Luqman Hakim (v)</p>	<p>(161-SC) <i>Recyclable, eco-Friendly, on-Demand Bin (ReDBin)</i></p> <p>by Jeannette Chin, Vic Callaghan</p>



<p><b>2<sup>nd</sup> July 2-4 pm (4)</b>- Session Chair: Lorah Bodie, Rm: 308 , Rm: 308</p> <p><b>Session 2A: Education Forum 2</b></p>	<p><b>2<sup>nd</sup> July 2-4 pm (4) -</b> Session Chair: Faiyaz Doctor, Rm: 309</p> <p><b>Session 2B: AmI-1</b></p>	<p><b>2<sup>nd</sup> July 2-4 pm (4) -</b> Session Chair: Michael Gardner, Rm: 315</p> <p><b>Session 2C: Interdisciplinary</b></p>
<p>(77-F) <i>Connecting Communities of Learners</i></p>	<p>(81-SC) <i>User-Centric Software Development Process</i></p>	<p>(140-F) <i>UBA: Ubiquitous Box Architecture</i></p>

<i>across Continents: The ShanghAI Lectures</i>	by Juan Carlos Augusto	by Soe Lin Myat, Bimlesh Wadhwa
by Fabio Bonsignorio, Nathan Labhart, Christopher Lueg, Rolf Pfeifer (s)		
(160-SC) Using Science-fiction Prototyping as a Means to Learning of STEM Topics and Foreign Languages	(94-F) <i>EvA - A Self Adaptable Event-based Recognition Framework for Three-Dimensional Activity Zones</i>	HouseCare - an intelligent nursing system for the elderly based on the their demand
by Shumei Zhang, Victor Callaghan	by Jochen Frey, Christian Neurohr, Jochen Britz, Boris Brandherm	by Yaoxun Hu, Jun Zhang (Invited talk)
(142- SC) A Multimodal Learning System for Handwriting Movements by Raffaello Brondi, Massimo Satler, Carlo Alberto Avizzano, Paolo Tripicchio	(95-F) <i>SiAM-dp: A Platform for the Model-Based Development of Context-Aware Multimodal Dialogue Applications</i>	(98-SC) <i>Intention Awareness - A vision declaration and illustrating scenarios</i>
	by Robert Neßelrath, Michael Feld	by Tiina Kymäläinen, Johan Plomp, Päivi Heikkilä, Heikki Ailisto
(75-SC) HyperMirror System Based Collaborative Language Learning Between Foreign Language Learners and Native Speakers	(101-F) <i>Adapting user interfaces based on user preferences and habits</i>	(93-F) <i>IRAR: Smart Intention Recognition and Action Recommendation for Cyber-Physical Industry Environments</i>
by Zhi Sun, Zhe Li, Spence Zaorski, Taiichiro Okubayashi, Takanori Maesako, Hai Zhang	by Asier Aztiria, Eduardo Castillejo, Aitor Almeida, Diego Lopez de Ipiña	by Jens Hauptert, Simon Bergweiler, Peter Poller, Christian Hauck



<b>3<sup>rd</sup> July 11am - 1pm (4)</b> - Session Chair: Di Wu	<b>3<sup>rd</sup> July 11am - 1pm (4)</b> - Session Chair: Shumei Zhang, Rm: 309	<b>3<sup>rd</sup> July 11am - 1pm (4)</b> - Session Chair: Kevin I-Kai Wang, Rm: 315
<b>Session 3A: Education Forum 3</b>	<b>Session 3B: Algorithms, Processes &amp; Theory</b>	<b>Session 3C: Context Awareness</b>
Creating a Fluid Learning Environment using iPads	(82-F) Requirements Engineering for Intelligent Environments	(69-F) <i>Building your own infrastructure based 802.11 fingerprinting service</i>
by Berling Fang (Invited Education Forum talk)	by Carl Evans, Lindsey Brodie, Juan Carlos Augusto	by Andrés Sánchez, Francisco Campuzano, Alberto García-Sola, Juan A. Botía
(71-F) <i>The Research on the Use Efficiency of Educational Resource Center with the Ecological System Structure</i>	(109- SC) Making the Best Use of Fifty (or more) Shades of Gray: Intelligent Contrast Optimisation for Image Segmentation in False-Colour Video	(76-F) <i>Where are my colleagues and why? Tracking multiple persons in indoor environments.</i>
by Jun Xiao, Xiaoxiao Zhu, Bingqian Jiang		

	by Spyridon BAKAS, Gordon HUNTER, Bastien LABBE	by Frank Krüger, Martin Kasparick, Thomas Mundt, Thomas Kirste
(72-F) <i>Integrating a Social Network Group with a 3D Collaborative Learning Environment</i>  by Shaya Pourmirza, Michael Gardner, Vic Callaghan	(133- SC) A Comparison of Classifiers for Intelligent Machine Usage Prediction by Chiming Chang, Paul-Armand Verhaegen, Joost R. Duflou	(79-F) <i>Temporal Reasoning for Intuitive Specification of Context-Awareness</i>  by Unai Alegre Ibarra, Juan Carlos Augusto, Asier Aztiria Goenaga
(92-F) <i>Smart Classroom: From Conceptualization to Construction</i>  by Shuqiang Song, Xiaoliu Zhong, Haixia Li, Jing Du, Fenghua Nie	(112-SC) Towards the Minimization of Cyclic Instability Using Embedded Algorithms  by Jose Antonio Pacheco Salinas, Victor Manuel Zamudio Rodríguez, Miguel Ángel Casillas Araiza, María del Rosario Baltazar Flores, Carlos Lino Ramírez, Victor Callaghan, Faiyaz Doctor	(91-F) <i>SAMURAI: A Streaming Multi-tenant Context-Management Architecture for Intelligent and Scalable Internet of Things Applications</i>  by Davy Preuveneers, Yolande Berbers



<b>3<sup>rd</sup> July 2-4 pm (4)</b> - Session Chair: Minjuan Wang - Rm: 308  <b>Session 4A: Education Forum 4</b>	<b>3<sup>rd</sup> July 2-4 pm (4)- Session Chair</b> Francisco Campuzano, Rm: 309  <b>Session 4B: Man, Machines and Mobility</b>	<b>3<sup>rd</sup> July 2-4 pm (4)</b> - Session Chair Victor Zamudio, Rm: 315  <b>Session 4C: Smart Homes</b>
(153-SC) Research on Constructing the Standard Architecture of Educational Cloud Computing  by Di Wu, Xian Peng	(110- F) Introduction of the Flying Robots into the Human Environment: An Adaptive Square-Root Unscented Kalman Filter for a Fault Tolerant State Estimation in a Quadrotor  by JaroslawGoslinski, WojciechGiernacki, Stanislaw Gardecki	(61-F) <i>ACEMIND: The smart integrated home network</i>  by Bouchet, javaudin, Kortebi, El Adbellaouy, Brzozowski, Katsianis, Mayer, Guan, Lebouc, Fontaine, Cochet, Jaffre, Mengi, Celeda, Gundogdu Aytekin, Kurt
<b>POSTERS (Education Forum)</b> - Session Chair : Minjuan Wang  • (51-P) <i>The Application of Camtasia Studio in the Development of English Online Courseware by Zigang Ge</i>	(143-SC) Home based mobile solution for video ambulatory EEG monitoring  by Shaji Chacko, Paul McCullagh	(97-F) <i>Bridging the Gap between Smart Home and Agents</i>  by Jochen Britz, Jochen Frey, Jan Alexandersson

<ul style="list-style-type: none"> <li>•(122-SP) <i>Examining Learning Research Studios at San Diego State University</i> by James P. Frazee, Katie Dunigan Hughes, Rebecca V. Frazee</li> </ul>	<p>(119-F) <i>Towards MMO Intelligent Environments</i></p> <p>by Marc Davies, Vic Callaghan, DaniyalAlghazzawi</p>	<p>(104-F) <i>Detecting Household Activity Patterns from Smart Meter data</i></p> <p>By Jing Liao, Lina Stankovic, Vladimir Stankovic</p>
<ul style="list-style-type: none"> <li>•(134-sp) <i>An intelligent platform for the multimedia instruction environment based on i-control, i-management and i-view</i> by Xiaoliu Zhong, Haixia Li, Shuqiang Song, Junhua Xu, Jing Du</li> </ul>	<p>(68-F) <i>Nature-Inspired Interference Management in Smart Peer Groups</i></p> <p>by Felix Maximilian Roth, Christian Krupitzer, Sebastian VanSyckel, Christian Becker</p>	<p>(73-F) <i>The Automated Interplay of Multimodal Fission and Fusion in Adaptive HCI</i></p> <p>by Frank Honold, Felix Schüssel, Michael Weber</p>



<p><b>4th July 11am-1pm (4)-</b> Session Chair Tongzhen Zhang, Rm: 308</p> <p><b>Session 5A: Education Forum 5</b></p>	<p><b>4th July 11am-1pm (4) -</b> Session Chair:Tiina Kymäläinen, Rm: 309</p> <p><b>Session 5B: Virtual &amp; Mixed Reality</b></p>	<p><b>4th July 11am-1pm (4) -</b> Session Chair Wolfgang Minker, Rm: 315</p> <p><b>Session 5C: AmI-2</b></p>
<p>(131-F) <i>Enhancing User Experience in Mobile Learning by Affective Interaction</i></p> <p>by Liping Shen, Bowen Xie, Ruimin Shen</p>	<p>(117-F) <i>Using mixed-reality to develop smart environments</i></p> <p>by Anasol Peña-Ríos , Vic Callaghan, Michael Gardner, Mohammed J. Alhaddad</p>	<p>(107-F) <i>Recognizing Subtle User Activities and Person Identity with Cheap Resistive Pressure Sensing Carpet</i></p> <p>by Jingyuan Cheng, Mathias Sundholm, Bo Zhou, Matthias Kreil, Paul Lukowicz</p>
<p>(114-F) <i>Smart Learning for the Next Generation Education Environment</i></p> <p>by Jason Ng, Dymitr Ruta, Ahmad Al-Rubaie, Di Wang, Leigh Powell, Benjamin Hirsch, Liu Ming, Cen Ling, Ahmed Al-Dhanhani</p>	<p>(132-F) <i>Head behavior detection method based on optical flow theory</i></p> <p>by Hui Shao, Qijie Zhao, Dawei Tu</p>	<p>(136-SC) <i>Defining Tasks and Actions Complexity-levels via Their Deliberation Intensity Measures in the Layered Adjustable Autonomy Model</i></p> <p>by Salama A. Mostafa, Saraswathy Shamini Gunasekaran, Mohd Sharifuddin Ahmad, Azhana Ahmad, Muthukkaruppan Annamalai, Aida Mustapha</p>
<p>(123-F) <i>A Review on Personalization and Agents Technology in Mobile Learning</i></p>	<p>(159-SC) <i>An Object-Oriented Pedagogical Model for Mixed Reality Teaching and Learning</i></p> <p>by Malek Alrashidi, Vic Callaghan, Michael Gardner</p>	<p>(154-F) <i>An Efficient Feature Selection Method for Activity Classification</i></p> <p>by Shumei Zhang, Paul McCullagh, Vic Callaghan</p>

by Alla Edein Moustafa Qoussini, Yusmadi Yah Bt Jusoh		
EDUCATION CLOSING - Minjuan Wang	(116-F) Human Robot Interaction and Control: Translating Diagrams into an Intuitive Augmented Reality Approach  by Eranda Lakshantha, Simon Egerton	(156-SC) IntelliChair: <i>An Approach for Activity Detection and Prediction via Posture Analysis</i>  by Teng Fu, Allan MacLeod

**Doctoral Colloquium Session (Micro-Papers).** Session organised by Gordon Hunter, Rm: 309

(145-Doc) Creative autotegulation: towards an interactive urban landscape by Gaetano De Francesco, Rosetta Angelini

(144-Doc) Probabilistic Explanation Dialog Augmentation by Florian Nothdurft, Felix Richter, Wolfgang Minker

<b>Poster Session (non-Education Forum), Rm: 608</b>	<b>Demos, Rm: 608</b>	<b>Video Sessions, Rm: 608</b>
Session Organiser: Davy Preuveneers	Session Organiser: Gang Chen	Session Organiser: Gang Chen
(78-SP) Reflections on Ambient Intelligence Systems Handling of User Preferences and Needs by Juan Carlos Augusto	(96- SD) Simple Rule Editor for the Internet of Things by Timo Tuomisto, Tiina Kymäläinen, Johan Plomp, Anu Haapasalo, Kati Hakala	(158- SV) Companion-Technology: Towards User- and Situation-Adaptive Functionality of Technical Systems by Frank Honold, Pascal Bercher, Felix Richter, Florian Nothdurft, Thomas Geier, Roland Barth, Thilo Hörnle, Felix Schüssel, Stephan Reuter, Matthias Rau, Gregor Bertrand, Bastian Seegebarth, Peter Kurzok, Bernd Schattenberg, Wolfgang Minker, Michael Weber, Susanne Biundo
(146-SP) An Wearable ECG Analysis System with Novel Interactive Method by Bowen Xie, Liping Shen	(137- SD) Augmented Brain Computer Interaction based on Fog Computing and Linked Data by John K. Zao, Tchin-TzeGan, Chun-Kai You, Sergio José	(138-SV) An Adaptive Ambient Intelligent Platform for Recommending Recipes using Computing With Words by Aysenur Bilgin, Hani Hagrais, Shreyas Upasane, Areej

	Rodríguez Méndez, Cheng-En Chung, Yu-Te Wang, Tim Mullen, Tzyy-Ping Jung	Malibari, Mohammed J. Alhaddad, Daniyal Alghazzawi
(102- SP) Application of Verbal Intelligence in Dialog Systems for Multimodal Interaction by Florian Nothdurft, Frank Honold, KseniyaZablotskaya, Amr Diab, Wolfgang Minker		(152- SV) Interactions within Distributed Mixed Reality Collaborative Environments by Anasol Peña-Ríos , Vic Callaghan, Michael Gardner, Mohammed J. Alhaddad
(157- SP) Metalogue: a multiperspective multimodal dialogue system with metacognitive abilities for highly adaptive and flexible dialogue management by Jan Alexandersson, Maria Aretoulaki, Nick Campbell, Michael Gardner, Andrey Girenko, Dietrich Klakow, Dimitris Koryzis, Volha Petukhova, Marcus Specht, Dimitris Spiliotopoulos, Alexander Stricker, Niels Taatgen		

(56- F) Enhancing Learning Transfer: A Case Study of a Learning Simulation Game-Farmtasia by Yuxia Zhou, Minjuan Wang, Yong Chen (a)

